

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122019\
 Data File : VV014148.D
 Acq On : 20 Dec 2019 11:57
 Operator : SY/MD
 Sample : K6286-14
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFDZ0

Quant Time: Dec 21 02:34:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 21 02:31:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	478044	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	456436	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	199893	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	134751	4.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.00%
7) Chloroethane-d5	1.58	69	119830	4.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.40%
11) 1,1-Dichloroethene-d2	2.13	63	180216	3.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.40%
20) 2-Butanone-d5	3.93	46	299526	48.70	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.40%
24) Chloroform-d	4.40	84	259204	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.80%
26) 1,2-Dichloroethane-d4	5.08	65	127396	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
32) Benzene-d6	5.09	84	509715	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.60%
36) 1,2-Dichloropropane-d6	6.11	67	162736	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.80%
41) Toluene-d8	7.35	98	416988	3.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.40%
43) trans-1,3-Dichloropropene-	7.66	79	53038	3.88	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.60%
46) 2-Hexanone-d5	8.13	63	204284	40.55	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.10%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	104791	4.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	158403	4.49	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.80%

Target Compounds

					Ovalue
9) Trichlorofluoromethane	1.77	101	12220	0.276 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2054	0.078 ug/L #	29
12) 1,1-Dichloroethene	2.14	96	5864	0.255 ug/L #	1
13) Acetone	2.46	43	6374	1.482 ug/L	84
14) Carbon disulfide	2.32	76	6103	0.115 ug/L	100
15) Methyl Acetate	2.46	43	6374	0.662 ug/L #	59
18) trans-1,2-Dichloroethene	2.80	96	8410	0.324 ug/L	94
19) 1,1-Dichloroethane	3.23	63	20223	0.390 ug/L	97
21) 2-Butanone	4.05	43	6754	1.039 ug/L	82
22) cis-1,2-Dichloroethene	3.96	96	259613	8.530 ug/L #	91
25) Chloroform	4.42	83	12875	0.234 ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	6645	0.142 ug/L	93
33) Benzene	5.15	78	13552	0.121 ug/L	100
34) Trichloroethene	5.96	95	669530	21.678 ug/L	99
35) Methylcyclohexane	6.11	83	38007	0.922 ug/L #	20
37) 1,2-Dichloropropane	6.11	63	18022	0.626 ug/L #	86
42) Toluene	7.43	91	11536	0.096 ug/L	93

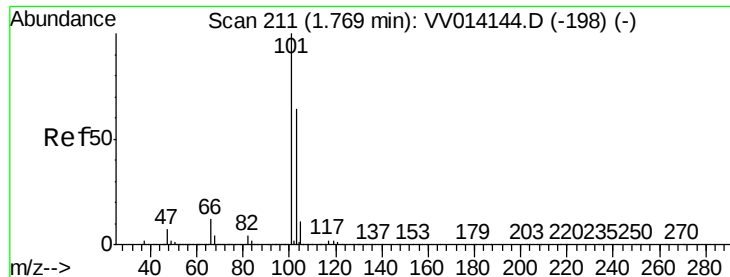
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122019\
Data File : VV014148.D
Acq On : 20 Dec 2019 11:57
Operator : SY/MD
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Quant Time: Dec 21 02:34:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Dec 21 02:31:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.01	164	8816	0.329	ug/L	97
48) 2-Hexanone	8.18	43	8817	0.736	ug/L #	83
49) Dibromochloromethane	8.02	129	7451	0.283	ug/L #	10

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

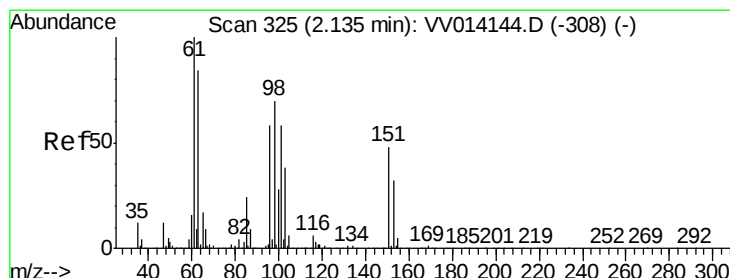
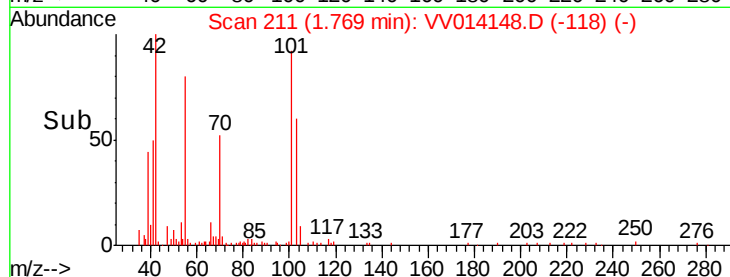
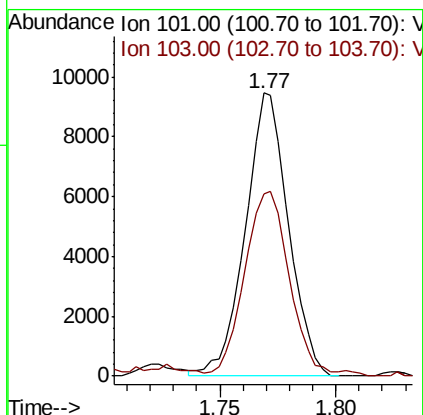
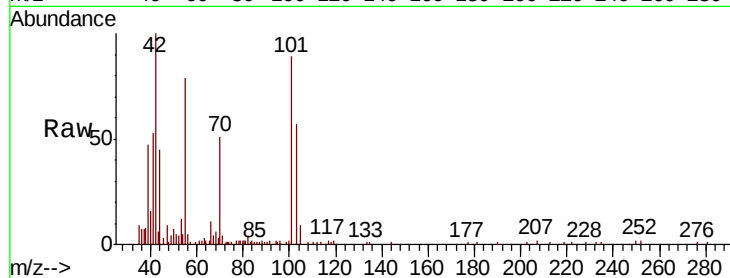


#9

Trichlorofluoromethane
Concen: 0.276 ug/L
RT: 1.77 min Scan# 211
Delta R.T. -0.00 min
Lab File: VV014148.D
Acq: 20 Dec 2019 11:57

Instrument :
MSVOA_V
ClientSampled :
BFDZ0

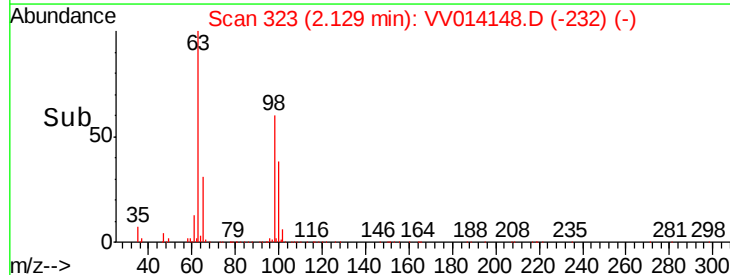
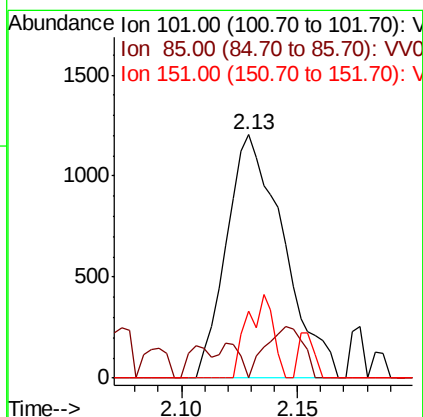
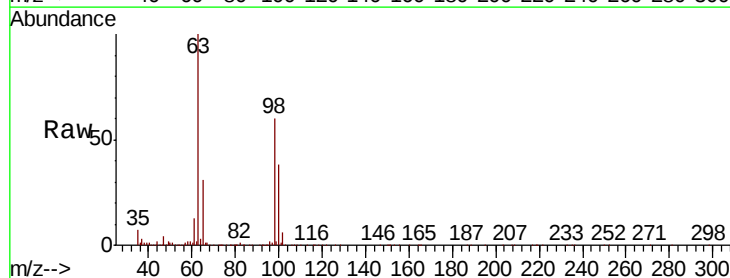
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Ion Ratio Lower Upper
101 100
103 68.3 52.9 79.3

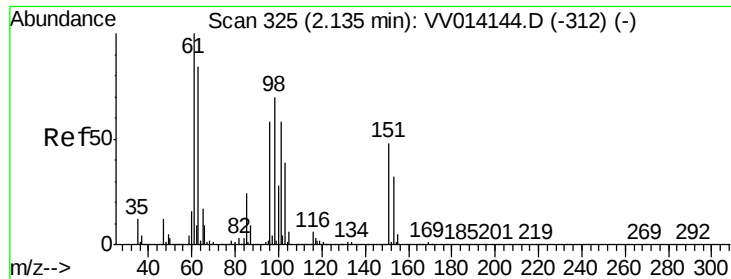


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.078 ug/L
RT: 2.13 min Scan# 323
Delta R.T. -0.01 min
Lab File: VV014148.D
Acq: 20 Dec 2019 11:57

Tgt Ion:101 Resp: 2054
Ion Ratio Lower Upper
101 100
85 5.3 33.4 50.0#
151 15.8 69.4 104.0#

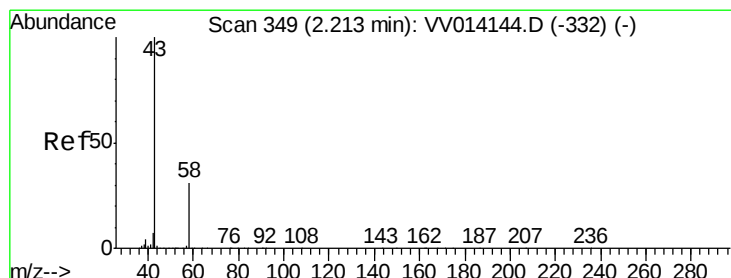
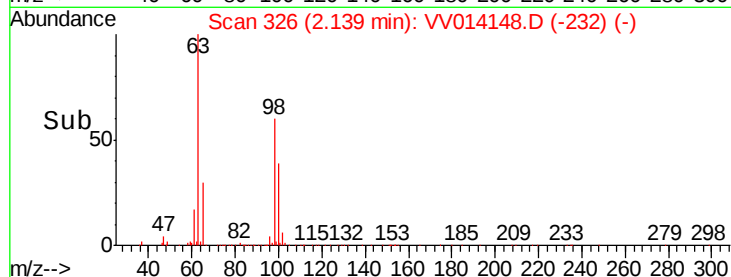
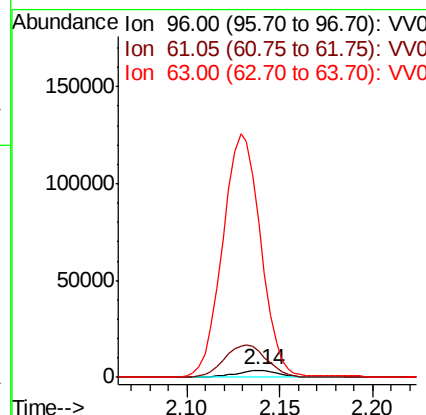
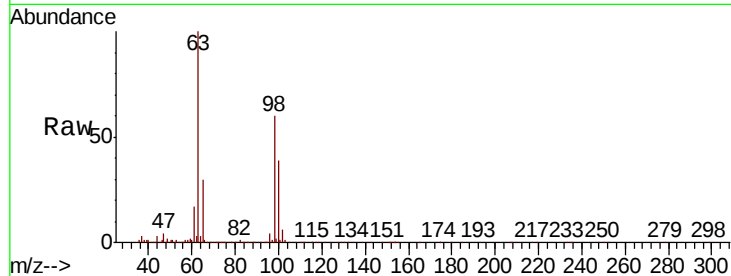




#12
 1,1-Dichloroethene
 Concen: 0.255 ug/L
 RT: 2.14 min Scan# 326
 Delta R.T. 0.00 min
 Lab File: VV014148.D
 Acq: 20 Dec 2019 11:57

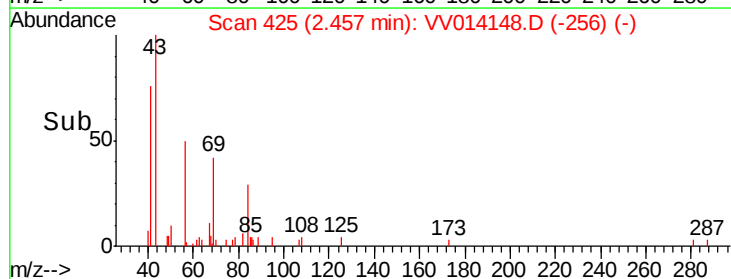
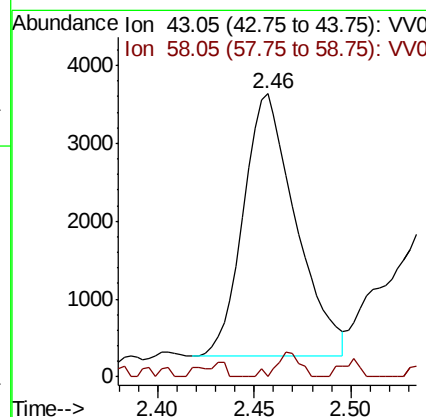
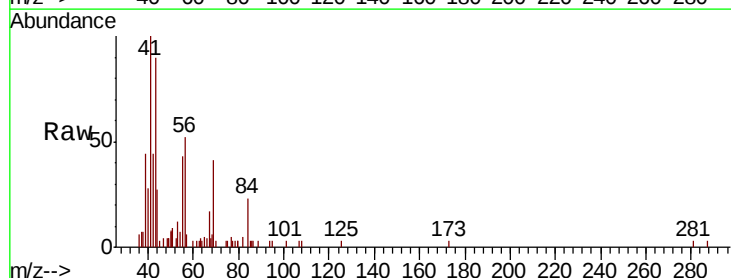
Instrument :
 MSVOA_V
 ClientSampleId :
 BFDZ0

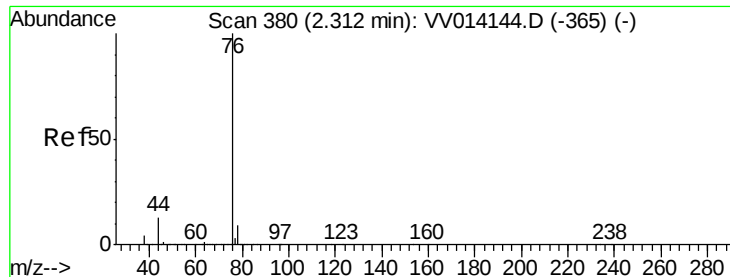
Tot Ion: 96 Resp: 5864
 Ion Ratio Lower Upper
 96 100
 61 381.3 116.3 215.9#
 63 2251.0 96.7 179.7#



#13
 Acetone
 Concen: 1.482 ug/L
 RT: 2.46 min Scan# 425
 Delta R.T. 0.24 min
 Lab File: VV014148.D
 Acq: 20 Dec 2019 11:57

Tgt Ion: 43 Resp: 6374
 Ion Ratio Lower Upper
 43 100
 58 7.0 0.0 27.2





#14

Carbon disulfide

Concen: 0.115 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

Instrument :

MSVOA_V

ClientSampleId :

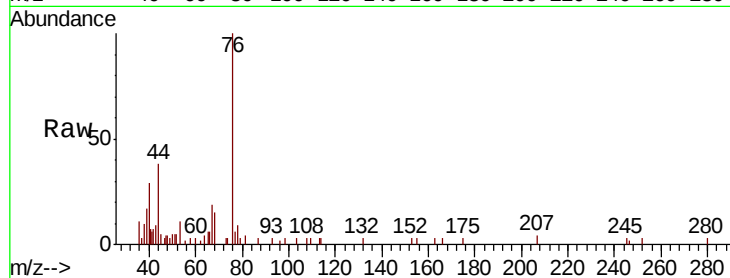
BFDZ0

Tot Ion: 76 Resp: 6103

Ion Ratio Lower Upper

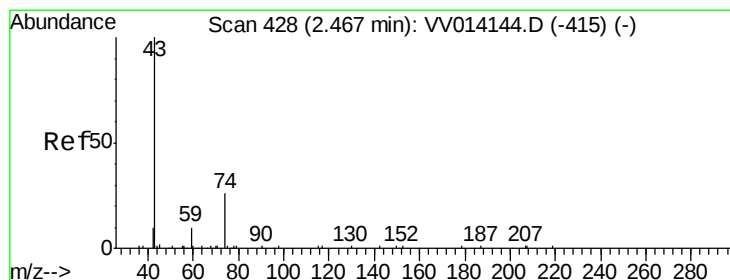
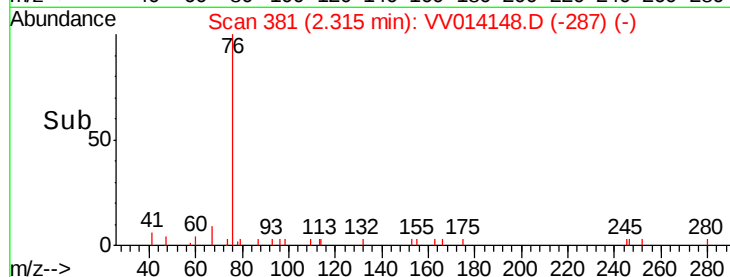
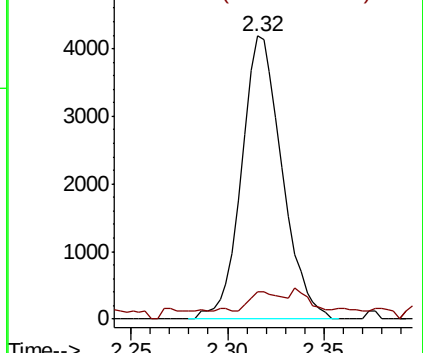
76 100

78 9.5 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#15

Methyl Acetate

Concen: 0.662 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.01 min

Lab File: VV014148.D

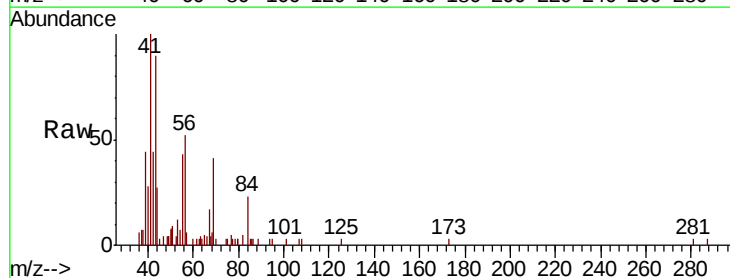
Acq: 20 Dec 2019 11:57

Tgt Ion: 43 Resp: 6374

Ion Ratio Lower Upper

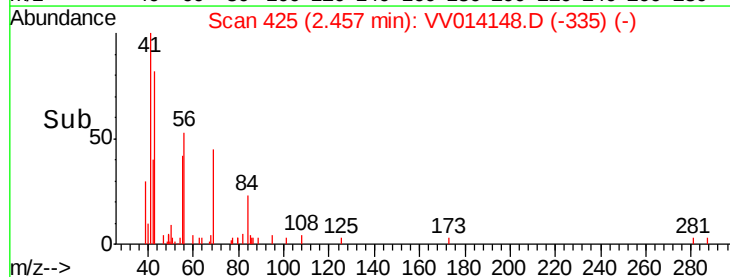
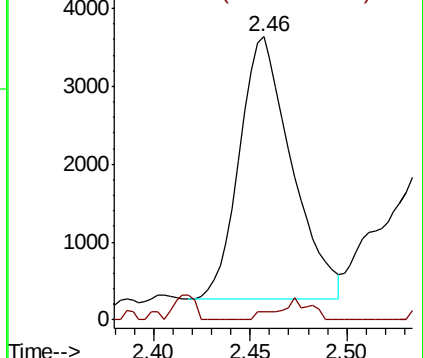
43 100

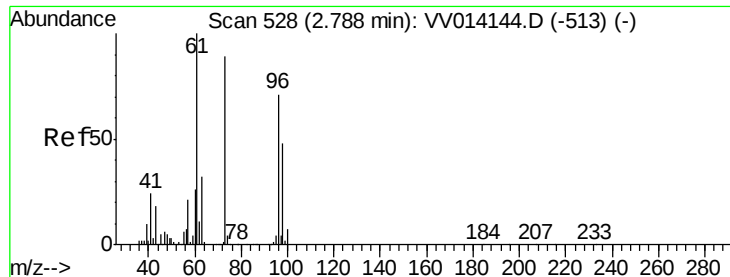
74 5.0 20.5 30.7#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

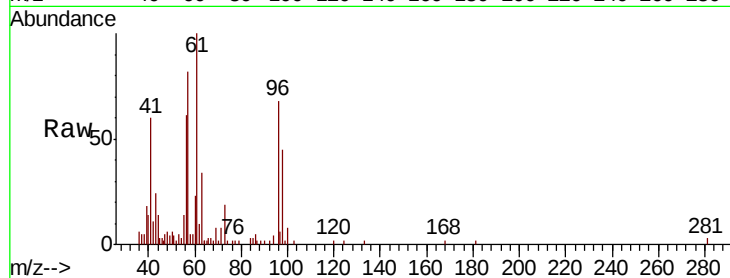




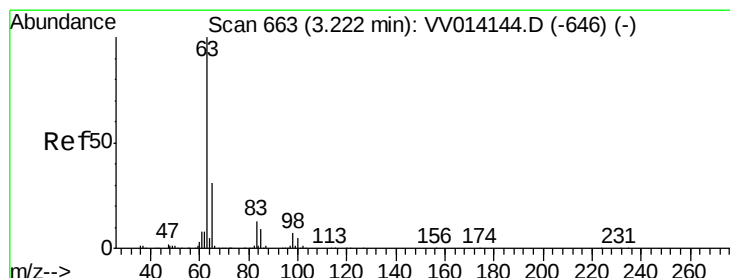
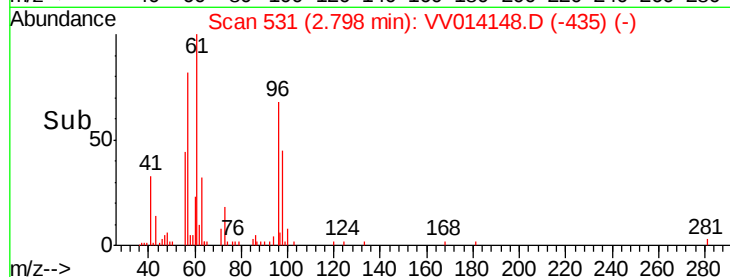
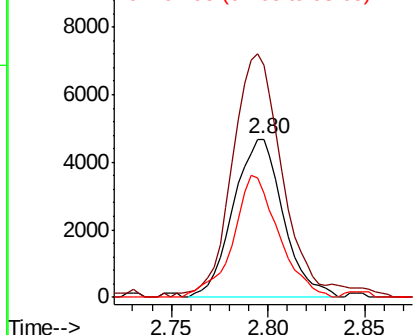
#18
trans-1,2-Dichloroethene
Concen: 0.324 ug/L
RT: 2.80 min Scan# 531
Delta R.T. 0.01 min
Lab File: VV014148.D
Acq: 20 Dec 2019 11:57

Instrument :
MSVOA_V
ClientSampleId :
BFDZ0

Tot Ion: 96 Resp: 8410
Ion Ratio Lower Upper
96 100
61 146.6 95.1 176.7
98 65.7 46.5 86.3

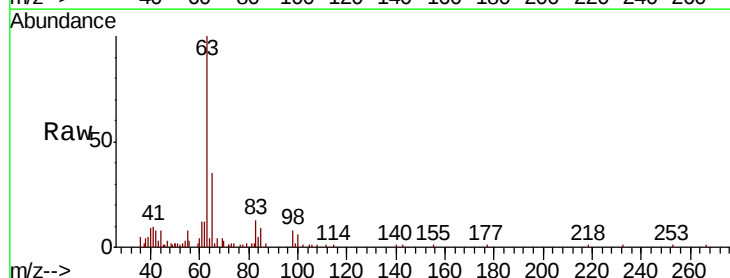


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

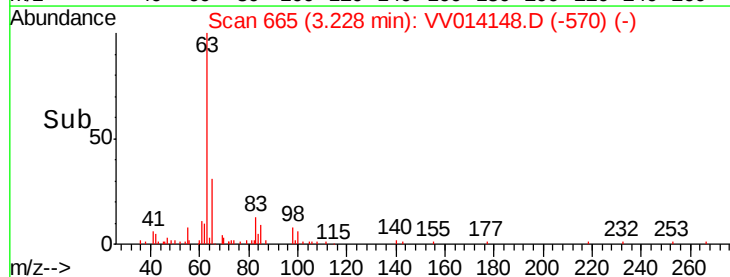
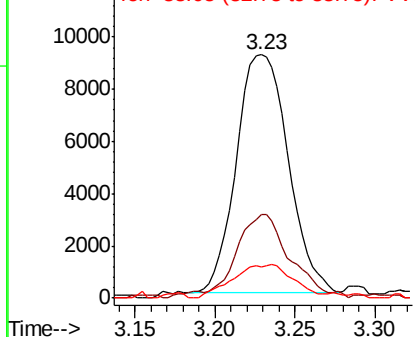


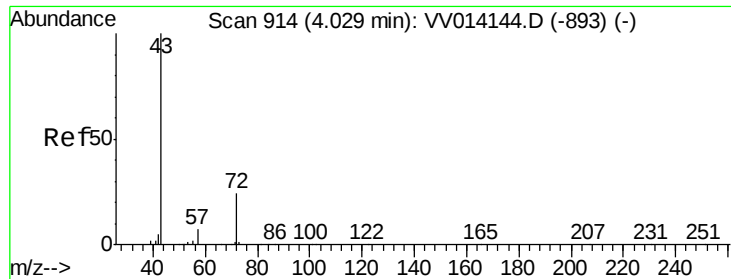
#19
1,1-Dichloroethane
Concen: 0.390 ug/L
RT: 3.23 min Scan# 665
Delta R.T. 0.01 min
Lab File: VV014148.D
Acq: 20 Dec 2019 11:57

Tgt Ion: 63 Resp: 20223
Ion Ratio Lower Upper
63 100
65 34.6 22.7 42.1
83 13.0 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





#21

2-Butanone

Concen: 1.039 ug/L

RT: 4.05 min Scan# 920

Delta R.T. 0.02 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

Instrument :

MSVOA_V

ClientSampleID :

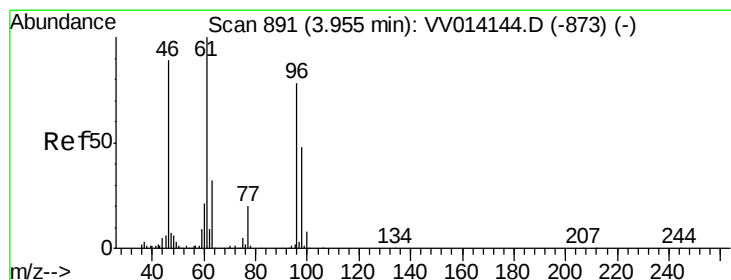
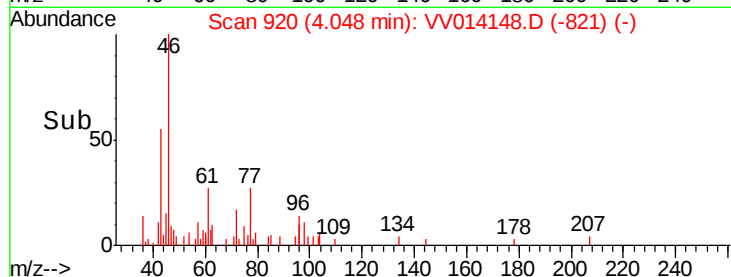
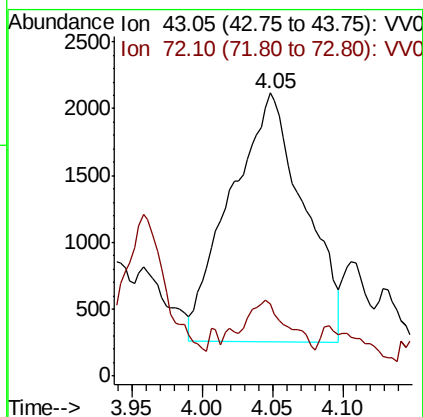
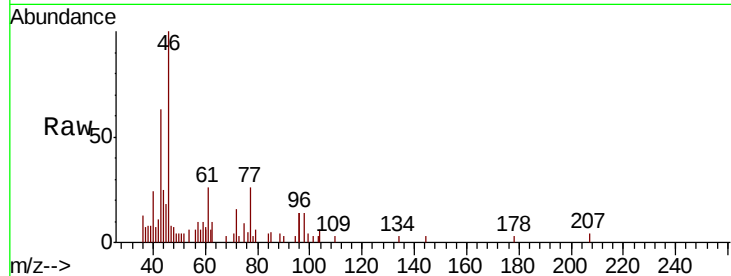
BFDZ0

Tot Ion: 43 Resp: 6754

Ion Ratio Lower Upper

43 100

72 15.6 12.3 36.9



#22

cis-1,2-Dichloroethene

Concen: 8.530 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

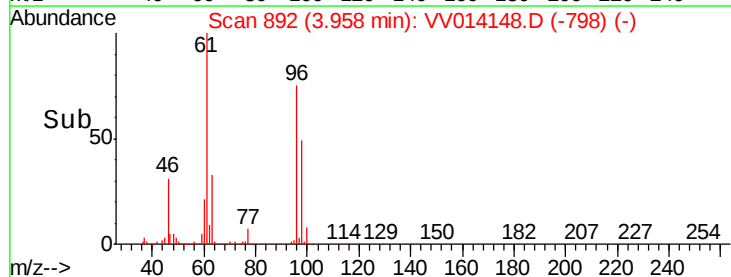
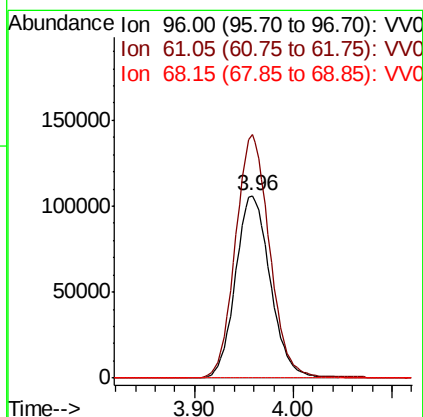
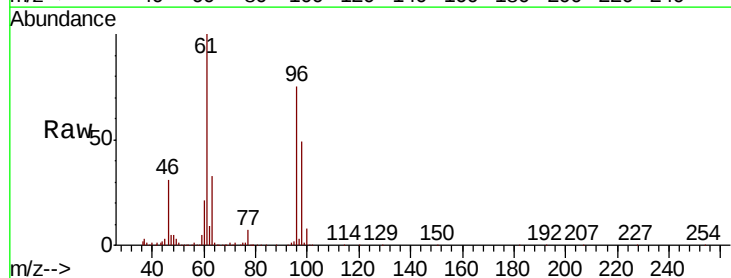
Tgt Ion: 96 Resp: 259613

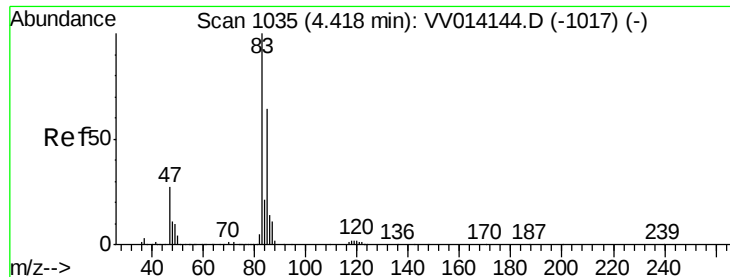
Ion Ratio Lower Upper

96 100

61 133.7 86.1 159.9

68 0.2 0.0 0.0#





#25

Chloroform

Concen: 0.234 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

Instrument :

MSVOA_V

ClientSampled :

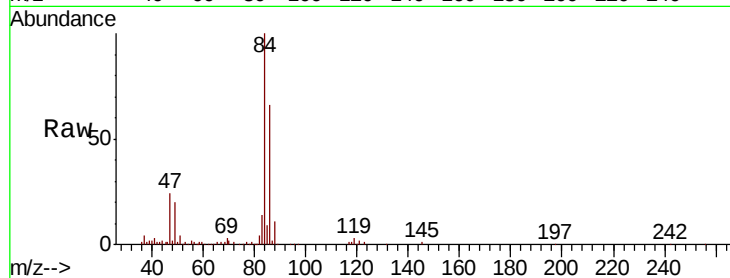
BFDZ0

Tot Ion: 83 Resp: 12875

Ion Ratio Lower Upper

83 100

85 63.5 45.1 83.7



Abundance Ion 83.05 (82.75 to 83.75): VV014148.D (-1017) (-)

Ion 85.00 (84.70 to 85.70): VV014148.D (-1017) (-)

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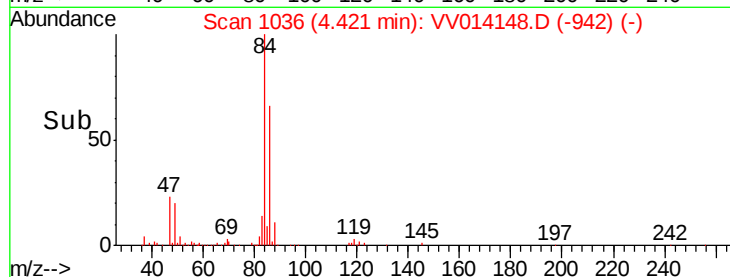
4.42

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#29

1,1,1-Trichloroethane

Concen: 0.142 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

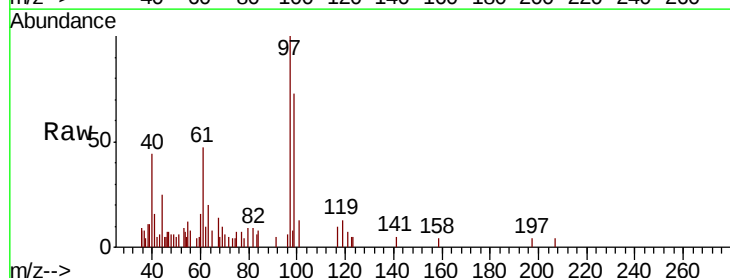
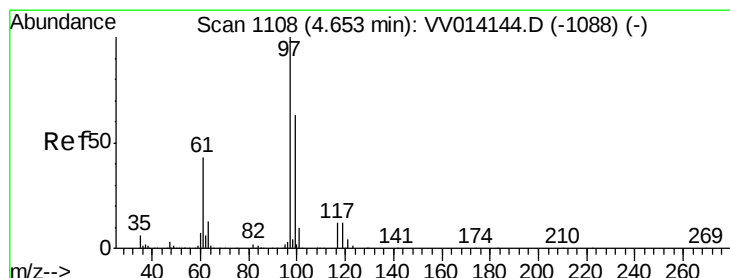
Tgt Ion: 97 Resp: 6645

Ion Ratio Lower Upper

97 100

99 70.3 51.7 77.5

61 48.7 35.0 52.6



Abundance Ion 96.95 (96.65 to 97.65): VV014148.D (-1015) (-)

Ion 99.05 (98.75 to 99.75): VV014148.D (-1015) (-)

Ion 61.05 (60.75 to 61.75): VV014148.D (-1015) (-)

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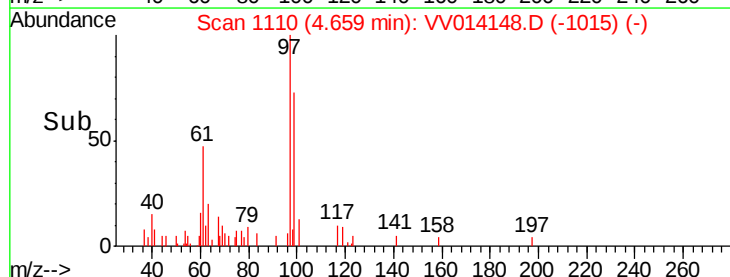
4.66

4.66

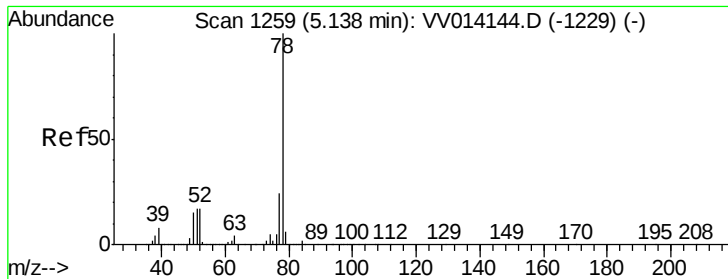
4.66

4.66

4.66



Time-->



#33

Benzene

Concen: 0.121 ug/L

RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

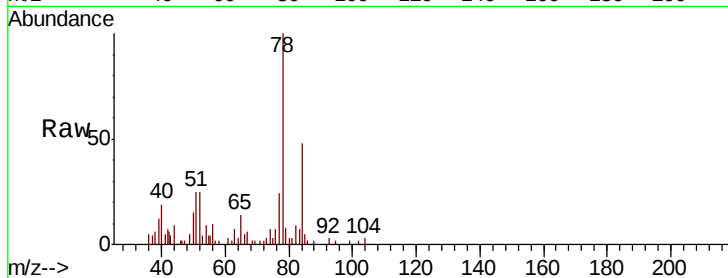
Instrument :

MSVOA_V

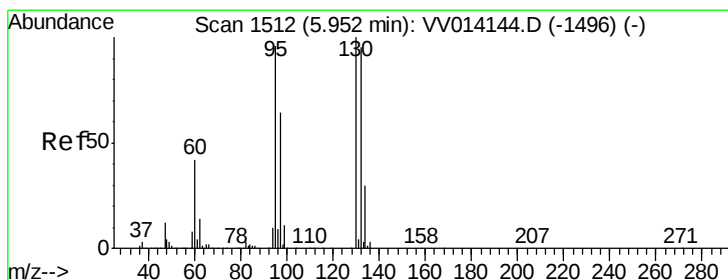
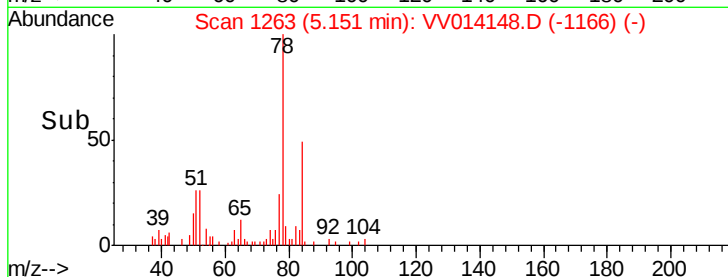
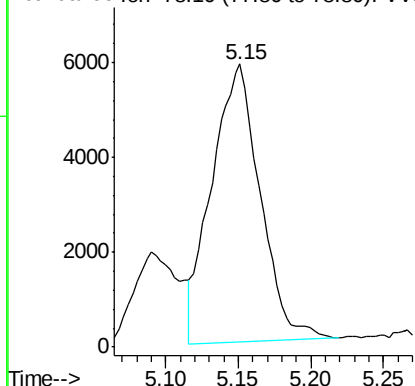
ClientSampleId :

BFDZ0

Tgt Ion: 78 Resp: 13552



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 21.678 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

Tgt Ion: 95 Resp: 669530

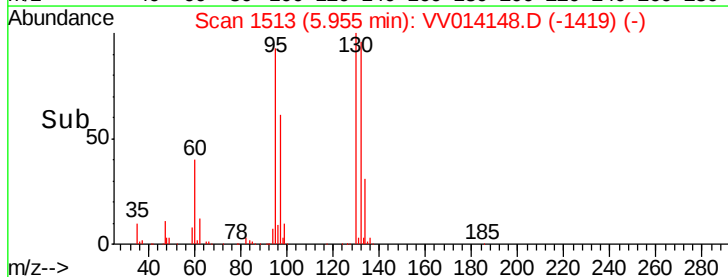
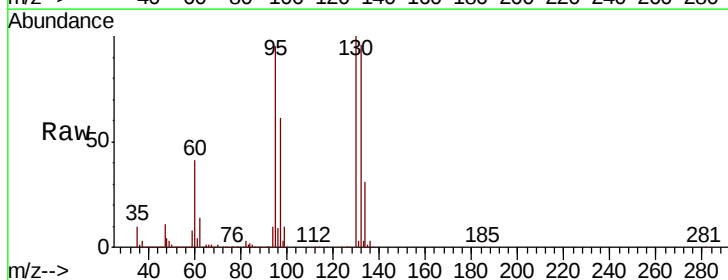
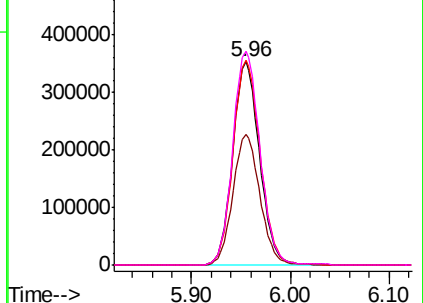
Ion	Ratio	Lower	Upper
95	100		
97	64.5	45.6	84.8
132	100.8	70.5	130.9
130	105.3	75.9	140.9

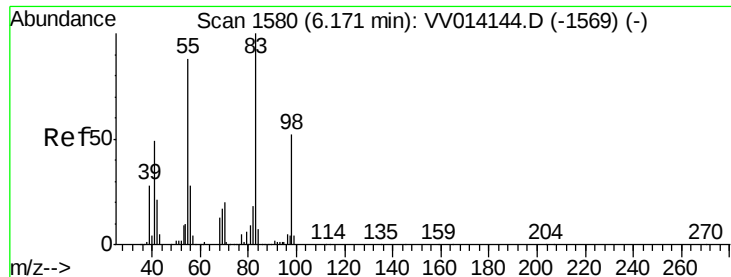
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

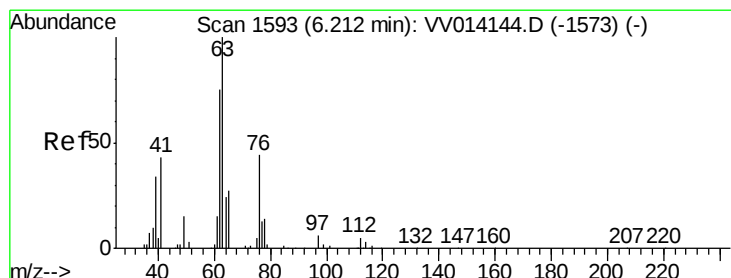
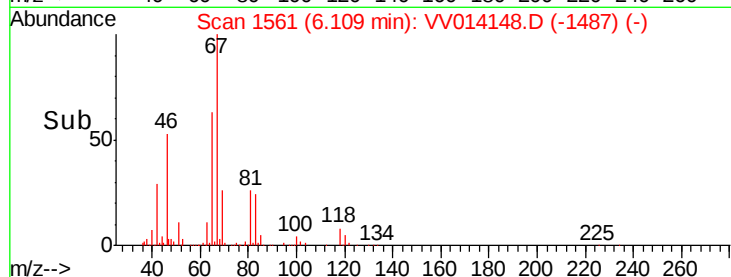
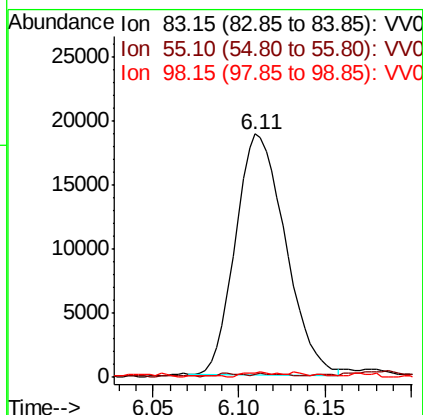
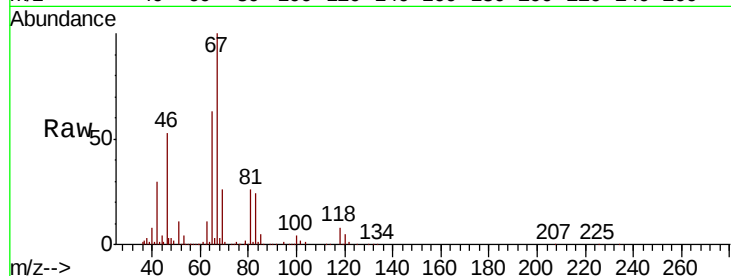




#35
Methvlcvclohexane
Concen: 0.922 ug/L
RT: 6.11 min Scan# 1561
Delta R.T. -0.06 min
Lab File: VV014148.D
Acq: 20 Dec 2019 11:57

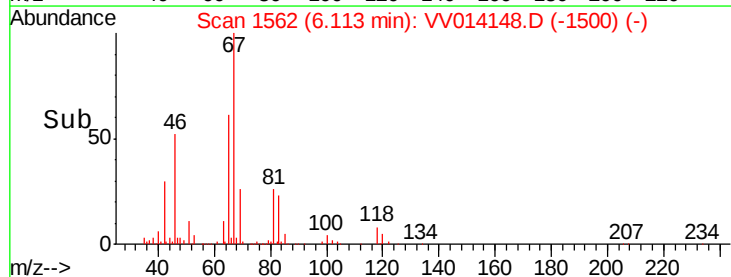
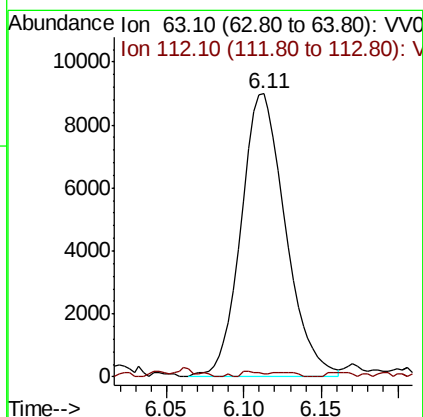
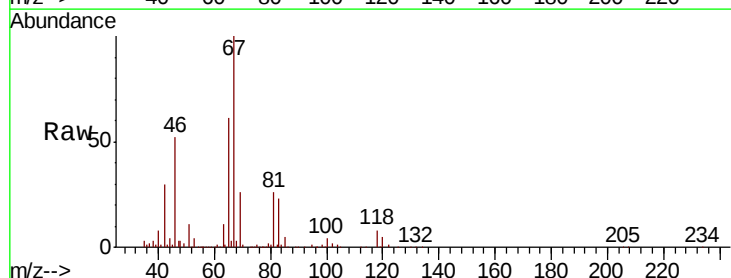
Instrument :
MSVOA_V
ClientSampleId :
BFDZ0

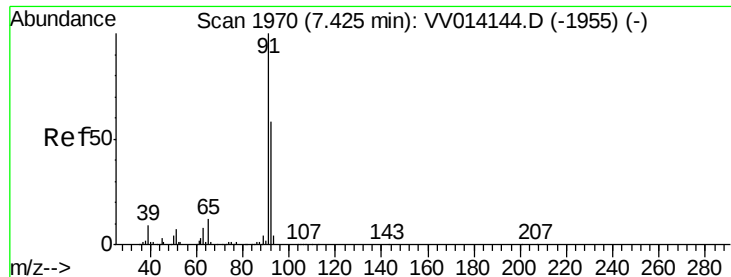
Tot Ion: 83 Resp: 38007
Ion Ratio Lower Upper
83 100
55 0.5 60.3 90.5#
98 1.5 38.1 57.1#



#37
1,2-Dichloropropane
Concen: 0.626 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.10 min
Lab File: VV014148.D
Acq: 20 Dec 2019 11:57

Tgt Ion: 63 Resp: 18022
Ion Ratio Lower Upper
63 100
112 0.8 4.4 6.6#





#42

Toluene

Concen: 0.096 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

Instrument :

MSVOA_V

ClientSampleId :

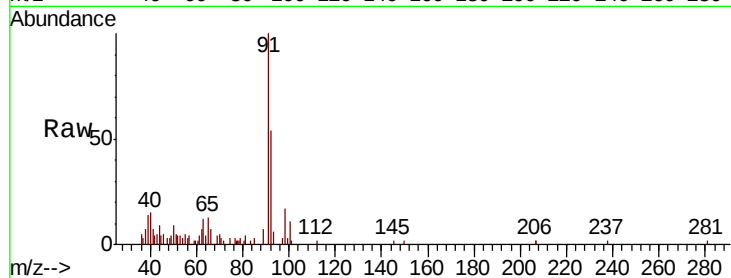
BFDZ0

Tot Ion: 91 Resp: 11536

Ion Ratio Lower Upper

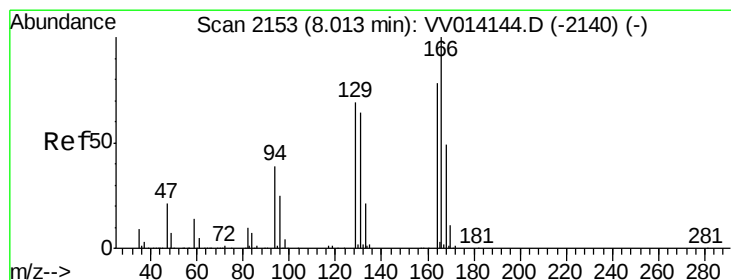
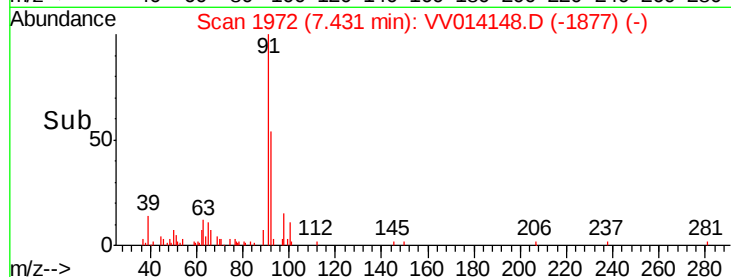
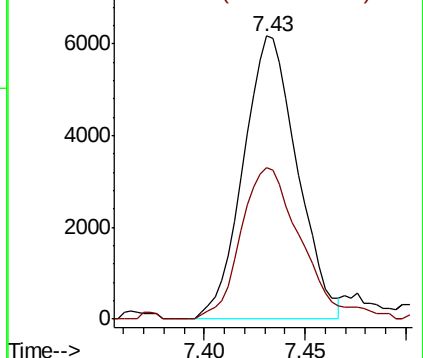
91 100

92 53.6 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VV014148.D (-1955) (-)

Ion 92.15 (91.85 to 92.85): VV014148.D (-1955) (-)



#47

Tetrachloroethene

Concen: 0.329 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VV014148.D

Acq: 20 Dec 2019 11:57

Tgt Ion: 164 Resp: 8816

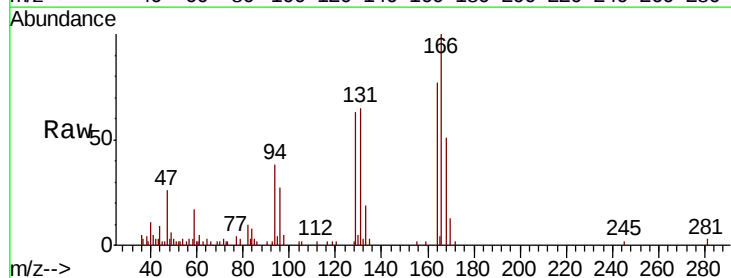
Ion Ratio Lower Upper

164 100

129 81.9 60.3 112.1

131 84.7 59.9 111.3

166 130.4 89.1 165.5

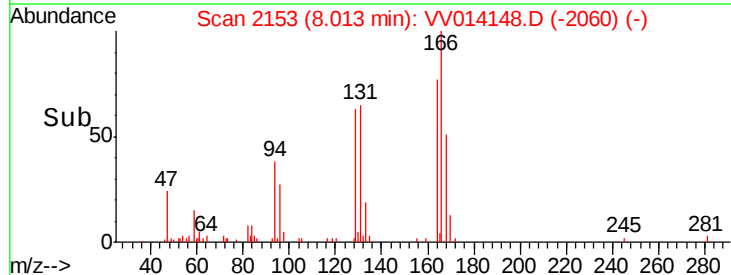
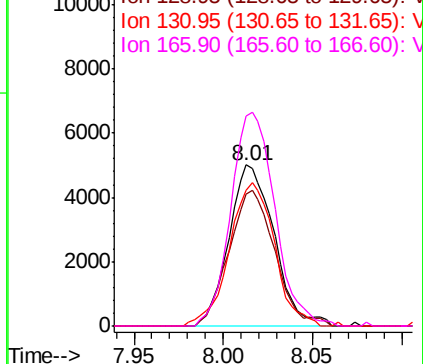


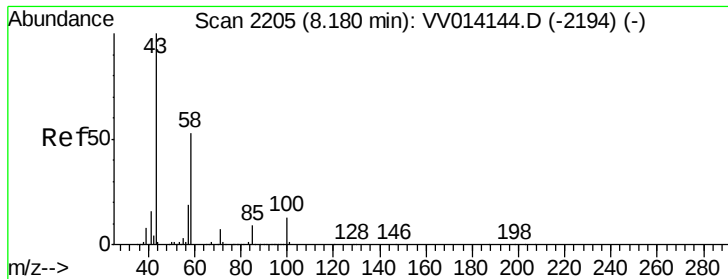
Abundance Ion 163.90 (163.60 to 164.60): VV014148.D (-2140) (-)

Ion 128.95 (128.65 to 129.65): VV014148.D (-2140) (-)

Ion 130.95 (130.65 to 131.65): VV014148.D (-2140) (-)

Ion 165.90 (165.60 to 166.60): VV014148.D (-2140) (-)

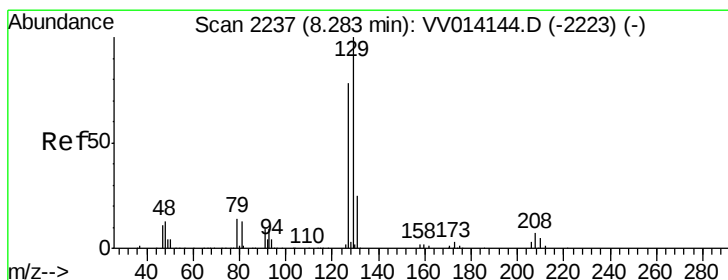
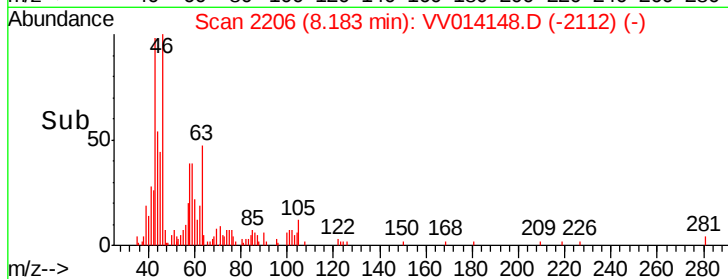
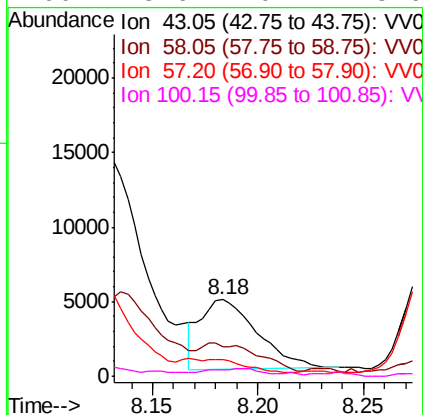
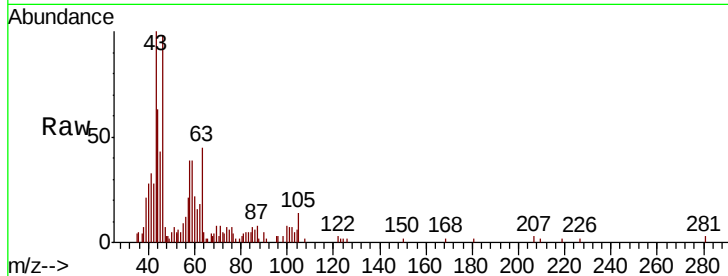




#48
2-Hexanone
Concen: 0.736 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV014148.D
Acq: 20 Dec 2019 11:57

Instrument :
MSVOA_V
ClientSampleId :
BFDZ0

Tot Ion:	43	Resp:	8817
Ion	Ratio	Lower	Upper
43	100		
58	48.7	43.2	64.8
57	0.0	15.4	23.2#
100	5.6	10.4	15.6#



#49
Dibromochloromethane
Concen: 0.283 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.27 min
Lab File: VV014148.D
Acq: 20 Dec 2019 11:57

Tgt Ion:	129	Resp:	7451
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.7	103.5#

