

Data File : VV011259.D
Acq On : 06 Jun 2019 21:33
Operator : SY/MD
Sample : K3226-04
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFCP3

Quant Time: Jun 07 01:34:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR060419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 07 01:28:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	168134	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	157005	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	66200	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	57532	4.52	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.40%
7) Chloroethane-d5	1.58	69	46385	4.38	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.60%
11) 1,1-Dichloroethene-d2	2.13	63	106756	4.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.80%
20) 2-Butanone-d5	3.96	46	149501	52.12	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.24%
24) Chloroform-d	4.40	84	101645	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
26) 1,2-Dichloroethane-d4	5.08	65	58663	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
32) Benzene-d6	5.10	84	212854	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
36) 1,2-Dichloropropane-d6	6.12	67	63552	4.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.80%
41) Toluene-d8	7.36	98	187742	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.00%
43) trans-1,3-Dichloropropene-	7.66	79	22815	4.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.80%
46) 2-Hexanone-d5	8.14	63	117016	50.22	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.44%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	45719	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	61687	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

						Qvalue
5) Vinyl chloride	1.32	62	91224	5.897	ug/L	96
8) Chloroethane	1.39	64	6288	0.636	ug/L #	60
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	968	0.089	ug/L #	26
12) 1,1-Dichloroethene	2.14	96	30323	2.862	ug/L #	81
13) Acetone	2.22	43	4226	2.197	ug/L	85
17) Methyl tert-butyl Ether	2.81	73	135794	4.802	ug/L	100
18) trans-1,2-Dichloroethene	2.78	96	73526	6.199	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	1601191	121.903	ug/L #	97
34) Trichloroethene	5.96	95	8330821	645.479	ug/L	97
35) Methylcyclohexane	6.12	83	16224	0.760	ug/L #	15
37) 1,2-Dichloropropane	6.12	63	8336	0.670	ug/L #	86
39) cis-1,3-Dichloropropene	7.03	75	2060	0.113	ug/L #	45
44) trans-1,3-Dichloropropene	7.66	75	1221	0.088	ug/L	88
45) 1,1,2-Trichloroethane	7.89	97	654	0.082	ug/L #	70
47) Tetrachloroethene	8.02	164	6176	0.662	ug/L	93
48) 2-Hexanone	8.14	43	16633	3.012	ug/L #	72
49) Dibromochloromethane	8.02	129	6164	0.682	ug/L #	11

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV060619\
Quantitation Report (Not Reviewed)

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

Data File : VV011259.D

Acq On : 06 Jun 2019 21:33

Operator : SY/MD

Sample : K3226-04

Misc : 25ML/MSVOA V/WATER

```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
BFCP3

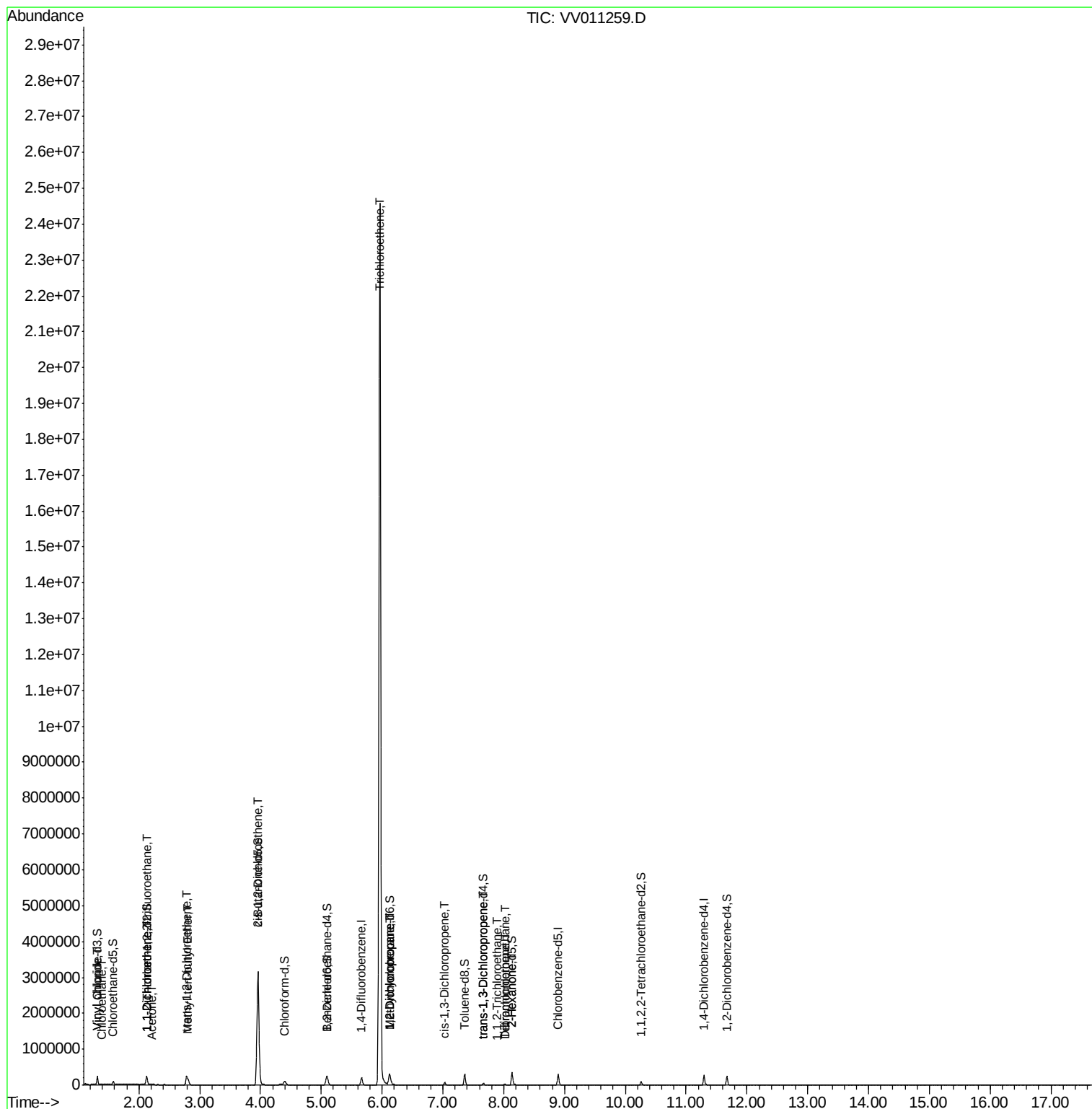
Quant Time: Jun 07 01:34:02 2019

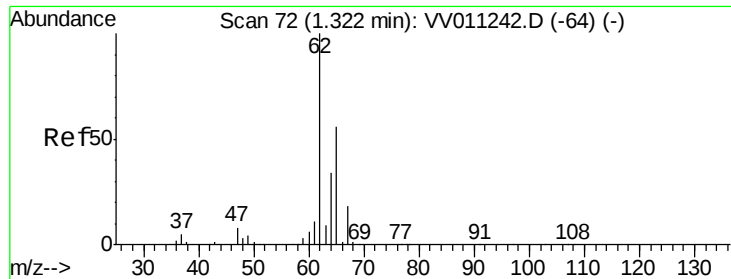
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Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Jun 07 01:28:31 2019

Response via : Initial Calibration





#5

Vinyl chloride

Concen: 5.897 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

Instrument :

MSVOA_V

ClientSampled :

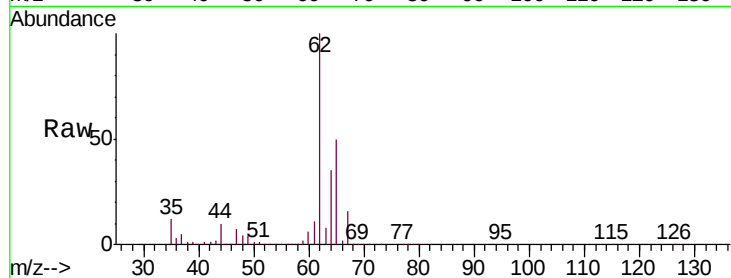
BFCP3

Tgt Ion: 62 Resp: 91224

Ion Ratio Lower Upper

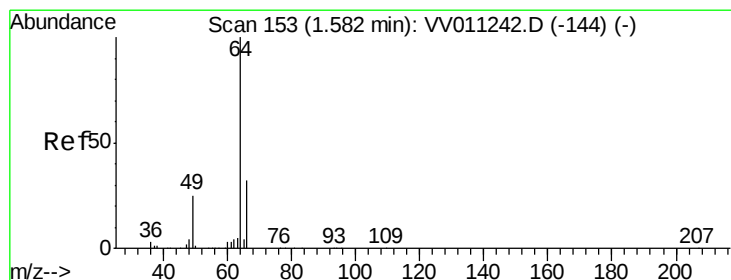
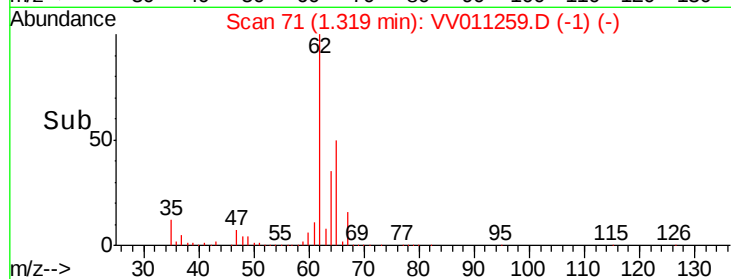
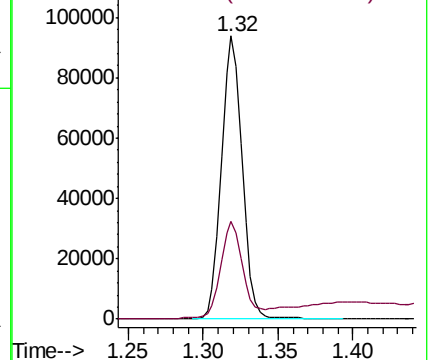
62 100

64 34.5 25.9 48.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 0.636 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.19 min

Lab File: VV011259.D

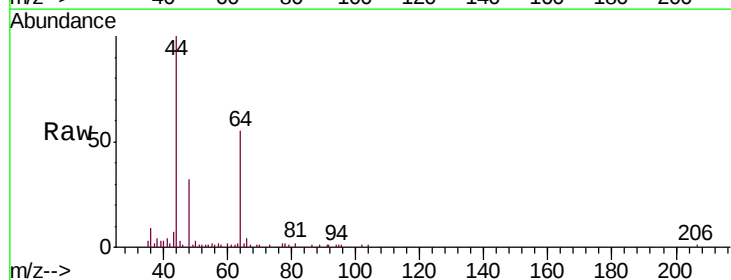
Acq: 06 Jun 2019 21:33

Tgt Ion: 64 Resp: 6288

Ion Ratio Lower Upper

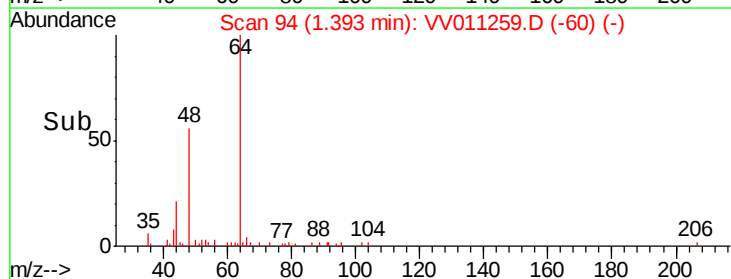
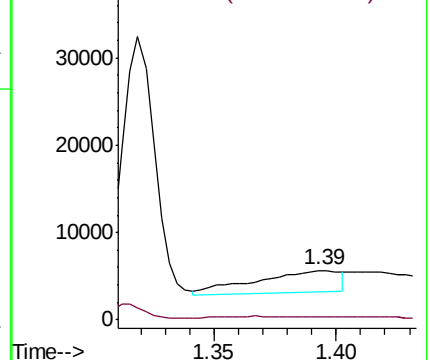
64 100

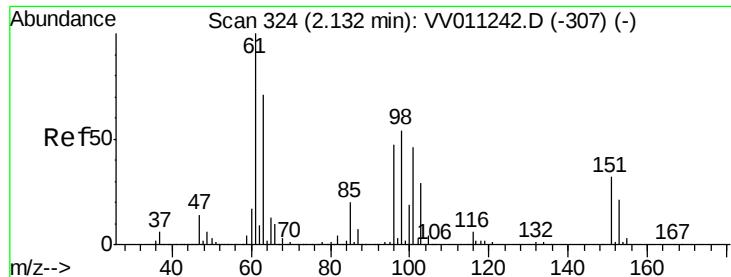
66 6.7 19.4 36.0#



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: 0.089 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

Instrument :

MSVOA_V

ClientSampleId :

BFCP3

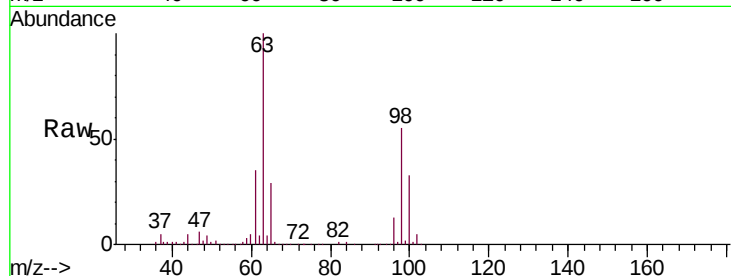
Tgt Ion: 101 Resp: 968

Ion Ratio Lower Upper

101 100

85 8.5 35.5 53.3#

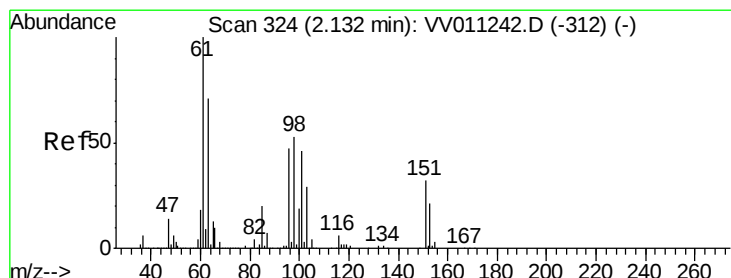
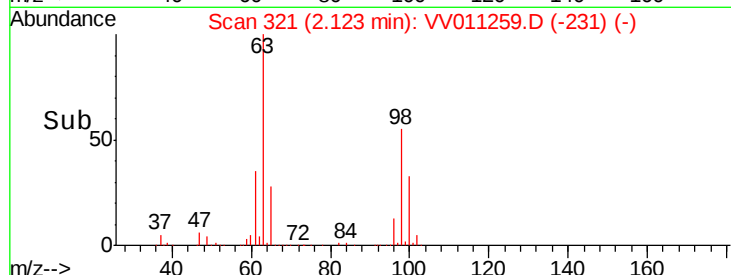
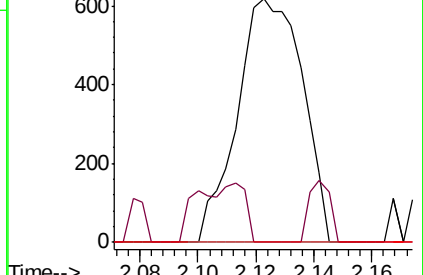
151 0.0 56.9 85.3#



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: 2.862 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

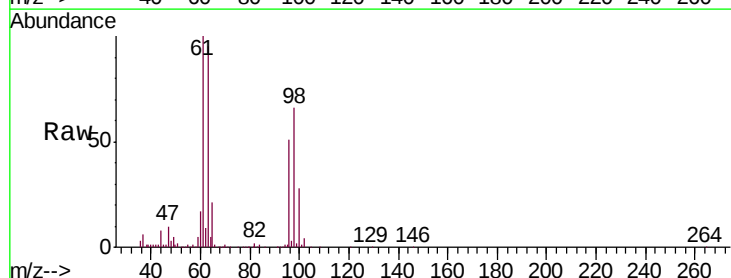
Tgt Ion: 96 Resp: 30323

Ion Ratio Lower Upper

96 100

61 194.5 139.8 259.6

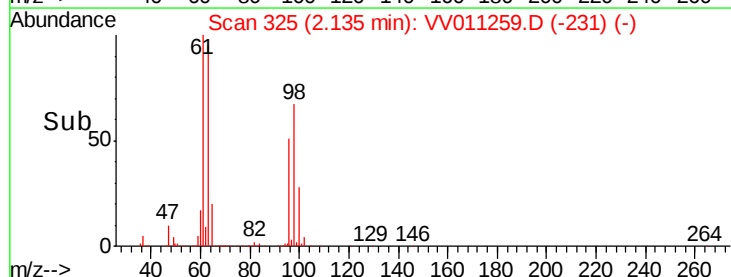
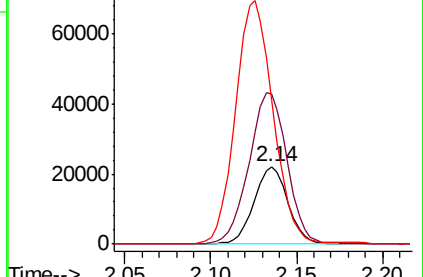
63 185.2 94.3 175.1#

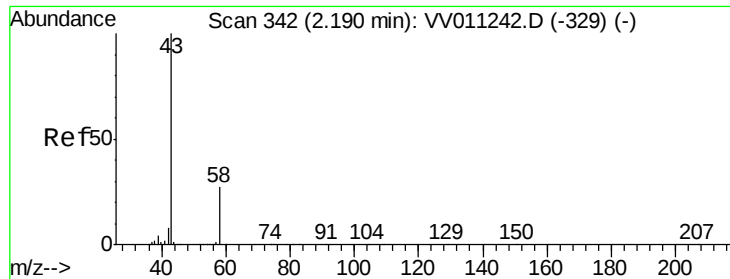


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 2.197 ug/L

RT: 2.22 min Scan# 350

Delta R.T. 0.03 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

Instrument :

MSVOA_V

ClientSampleId :

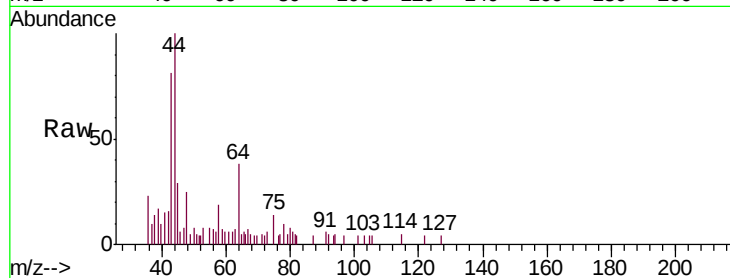
BFCP3

Tgt Ion: 43 Resp: 4226

Ion Ratio Lower Upper

43 100

58 19.7 0.0 55.2



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.22

2000

1500

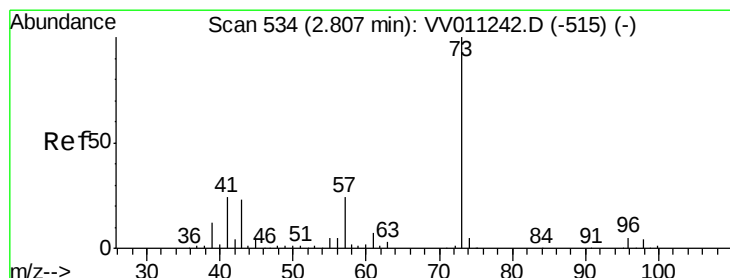
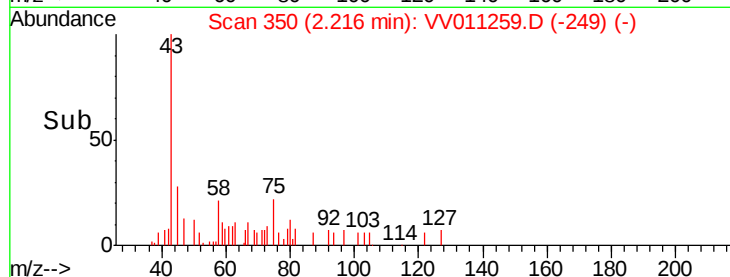
1000

500

0

Time-->

2.15 2.20 2.25 2.30



#17

Methyl tert-butyl Ether

Concen: 4.802 ug/L

RT: 2.81 min Scan# 535

Delta R.T. 0.00 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

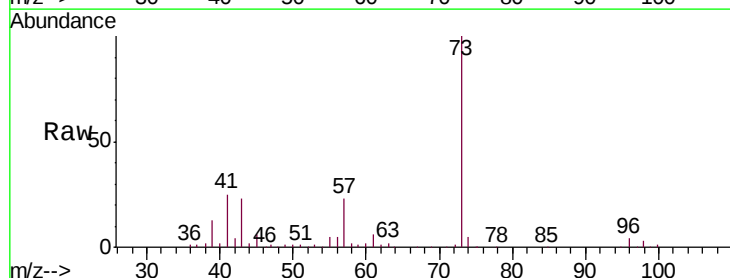
Tgt Ion: 73 Resp: 135794

Ion Ratio Lower Upper

73 100

43 23.1 18.7 28.1

57 22.4 18.1 27.1



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

2.81

80000

60000

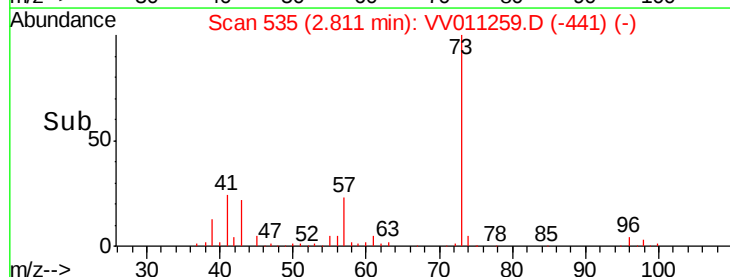
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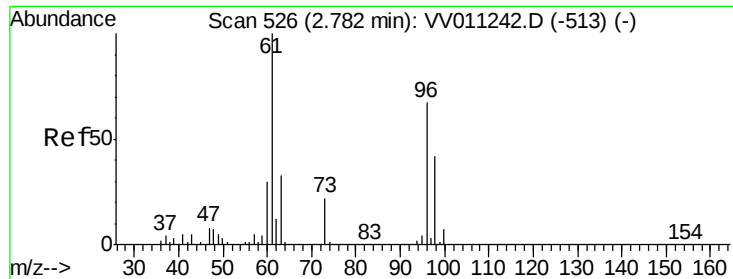
20000

0

Time-->

2.75 2.80 2.85 2.90

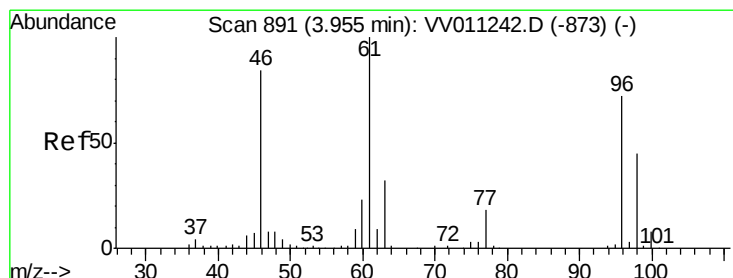
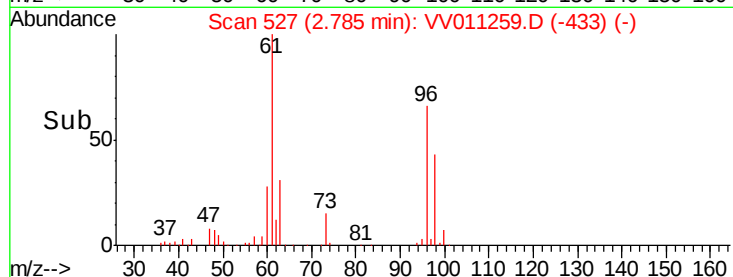
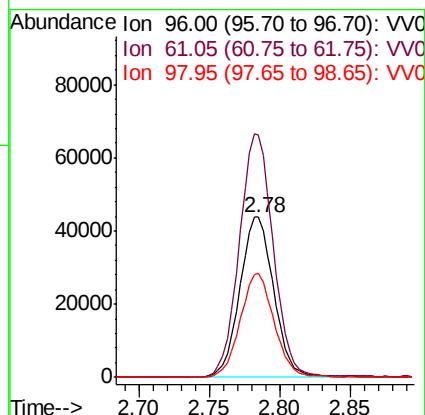
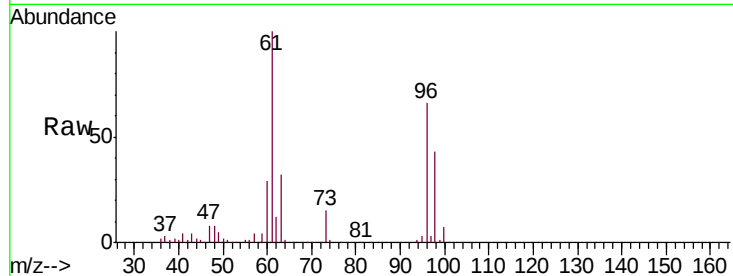




#18
trans-1,2-Dichloroethene
Concen: 6.199 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV011259.D
Acq: 06 Jun 2019 21:33

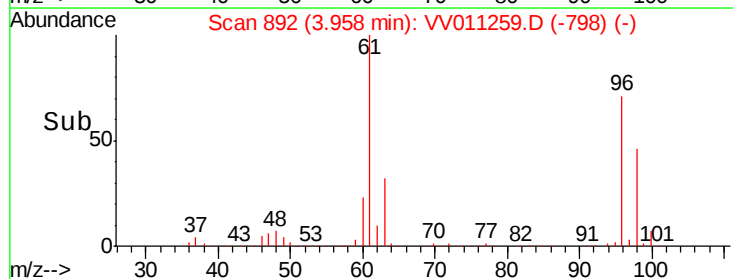
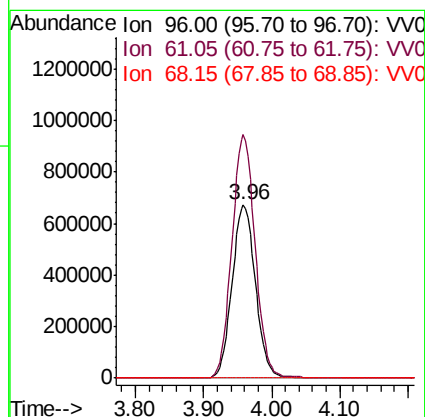
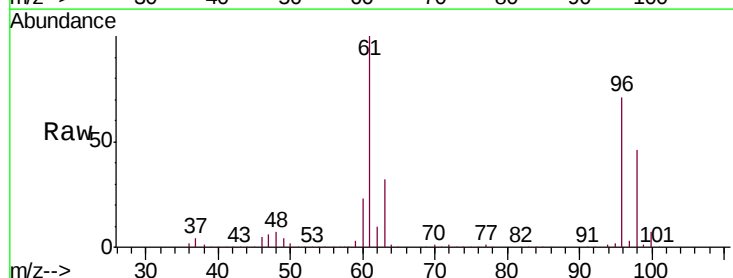
Instrument :
MSVOA_V
ClientSampleId :
BFCP3

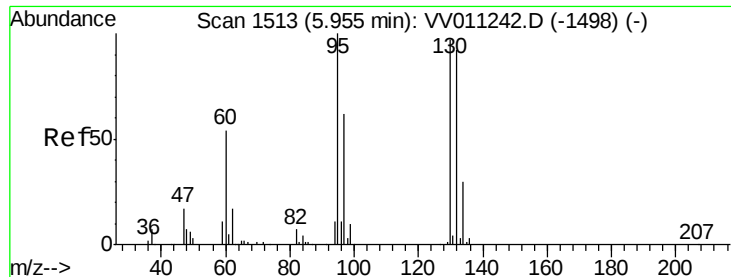
Tgt Ion: 96 Resp: 73526
Ion Ratio Lower Upper
96 100
61 151.7 104.0 193.2
98 65.0 45.7 84.9



#22
cis-1,2-Dichloroethene
Concen: 121.903 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV011259.D
Acq: 06 Jun 2019 21:33

Tgt Ion: 96 Resp: 1601191
Ion Ratio Lower Upper
96 100
61 140.5 100.8 187.2
68 0.0 0.0 0.0#





#34

Trichloroethene

Concen: 645.479 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.01 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

Instrument :

MSVOA_V

ClientSampleId :

BFCP3

Tgt Ion: 95 Resp: 8330821

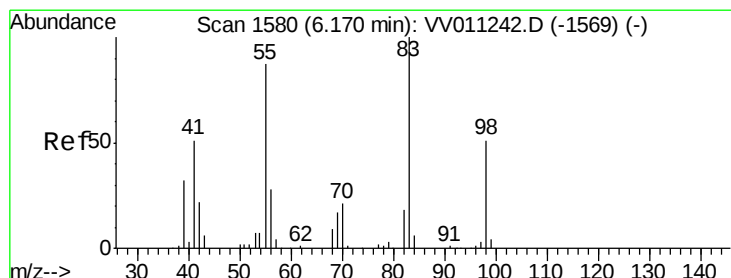
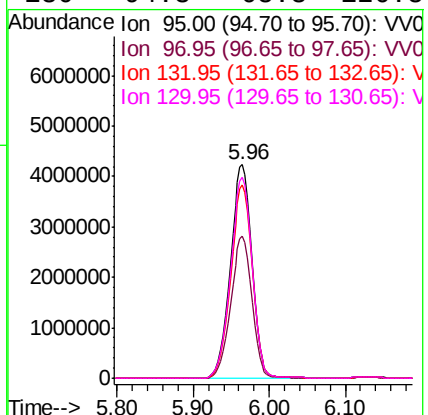
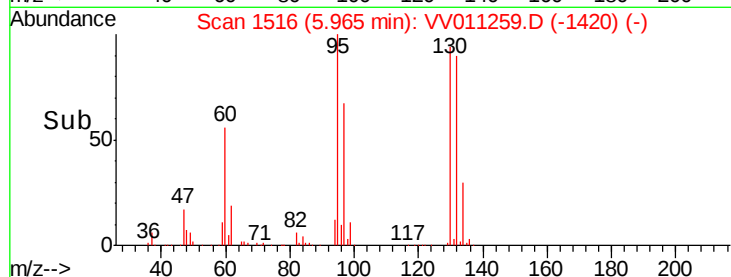
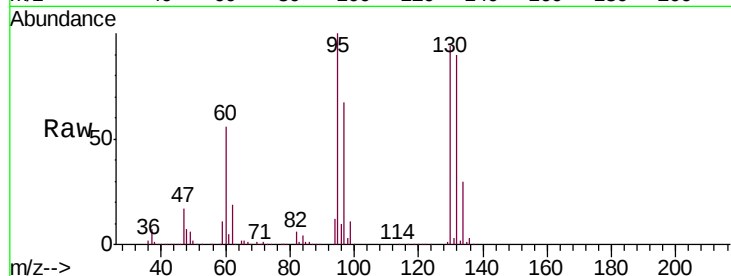
Ion Ratio Lower Upper

95 100

97 66.7 45.8 85.2

132 90.4 66.4 123.2

130 94.3 68.3 126.8



#35

Methylcyclohexane

Concen: 0.760 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.05 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

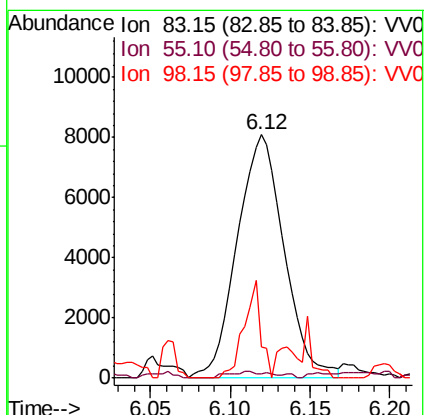
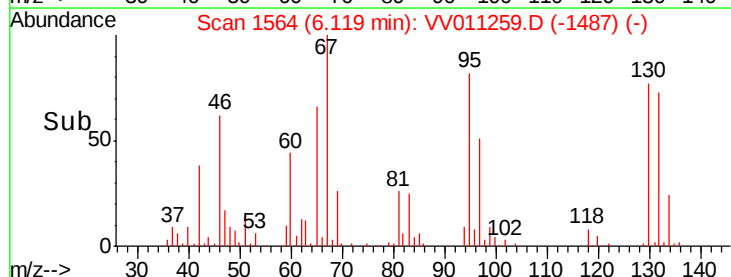
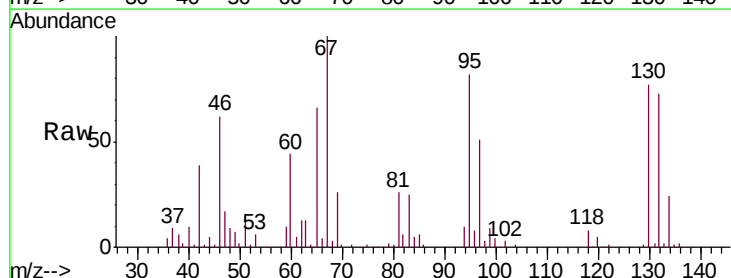
Tgt Ion: 83 Resp: 16224

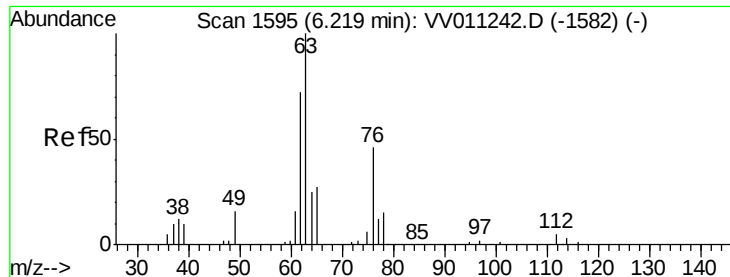
Ion Ratio Lower Upper

83 100

55 0.6 67.0 100.6#

98 0.0 40.0 60.0#

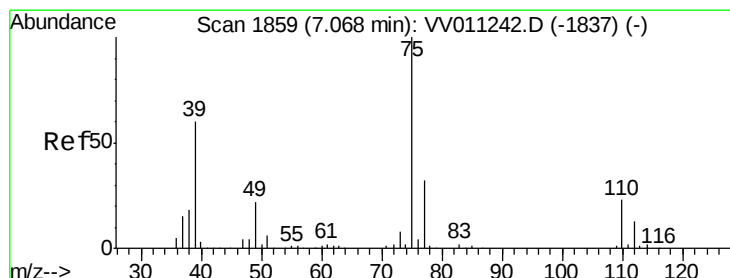
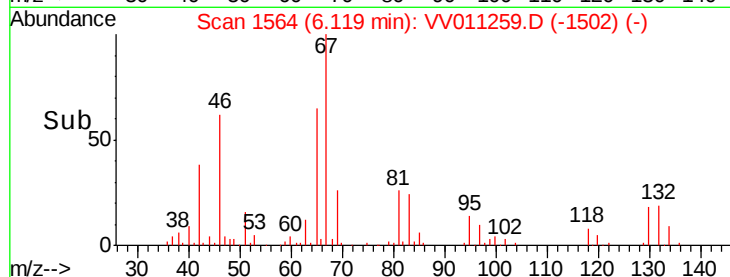
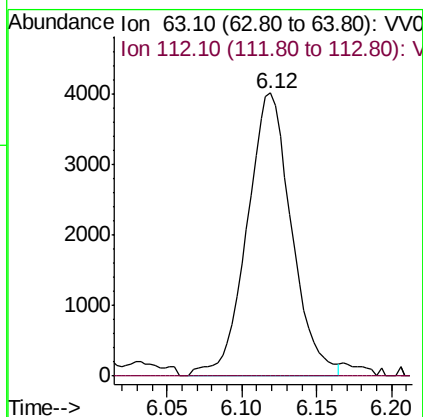
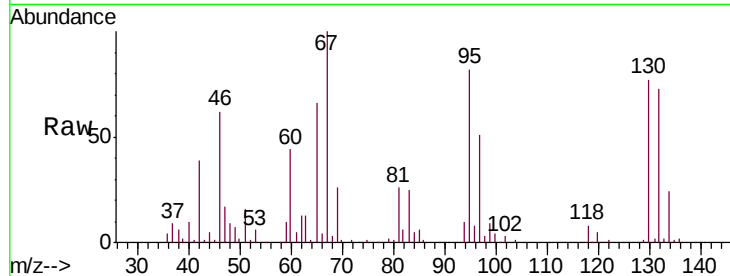




#37
 1,2-Dichloropropane
 Concen: 0.670 ug/L
 RT: 6.12 min Scan# 1564
 Delta R.T. -0.10 min
 Lab File: VV011259.D
 Acq: 06 Jun 2019 21:33

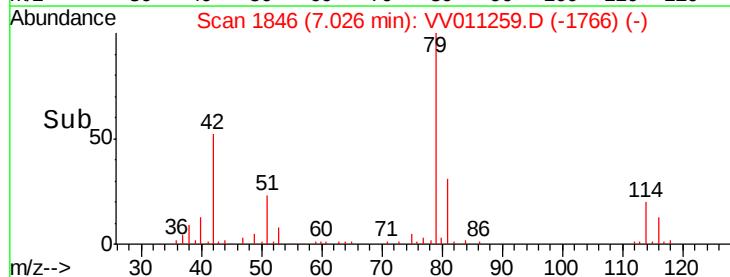
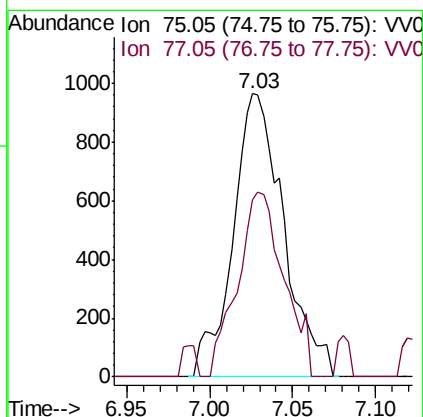
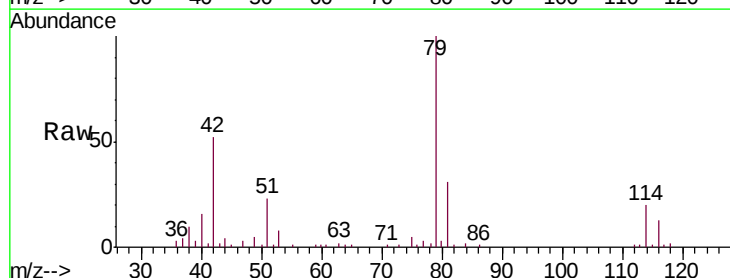
Instrument :
 MSVOA_V
 ClientSampleId :
 BFCP3

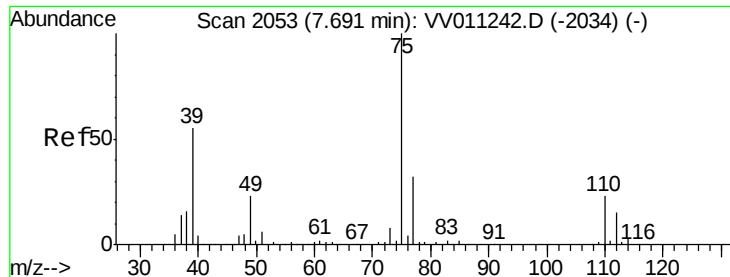
Tgt Ion: 63 Resp: 8336
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.113 ug/L
 RT: 7.03 min Scan# 1846
 Delta R.T. -0.04 min
 Lab File: VV011259.D
 Acq: 06 Jun 2019 21:33

Tgt Ion: 75 Resp: 2060
 Ion Ratio Lower Upper
 75 100
 77 62.4 22.2 41.2#





#44

trans-1,3-Dichloropropene

Concen: 0.088 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

Instrument :

MSVOA_V

ClientSampleId :

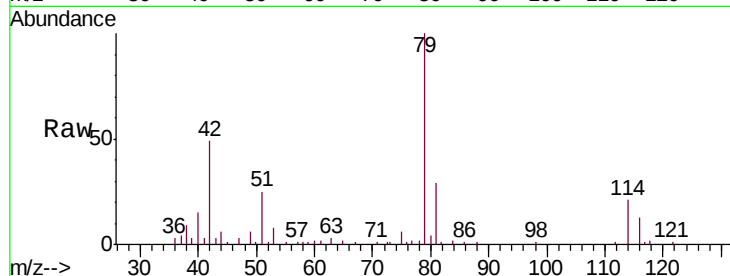
BFCP3

Tgt Ion: 75 Resp: 1221

Ion Ratio Lower Upper

75 100

77 39.7 23.1 42.9



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.66

800

600

400

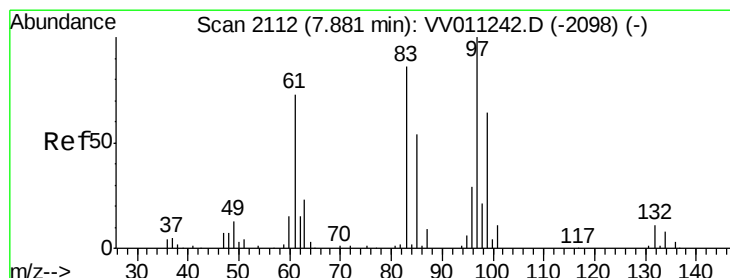
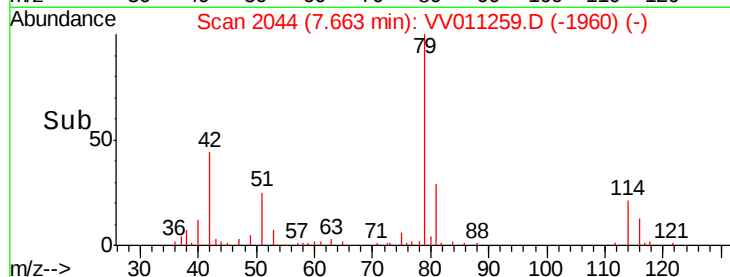
200

0

7.65

7.70

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.082 ug/L

RT: 7.89 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

Tgt Ion: 97 Resp: 654

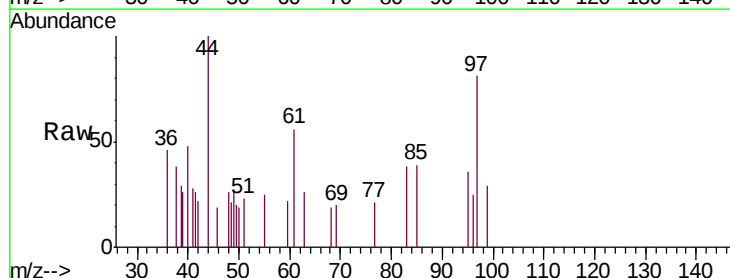
Ion Ratio Lower Upper

97 100

99 35.3 42.1 78.3#

83 46.9 59.4 110.2#

85 48.7 39.7 73.7



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

600

400

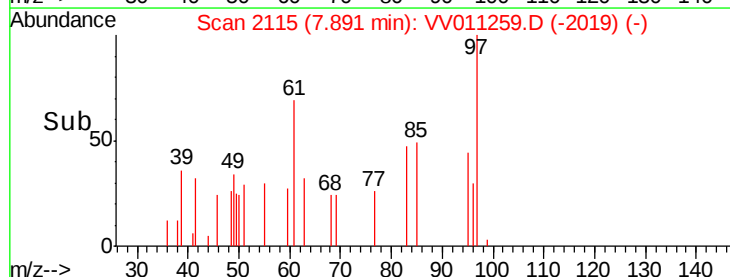
200

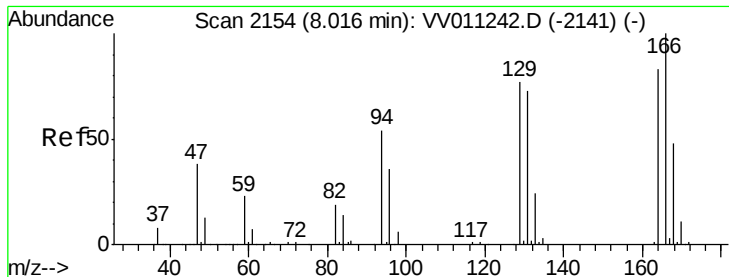
0

7.85

7.90

Time-->

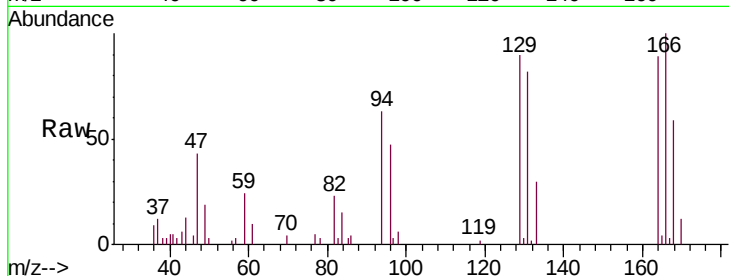




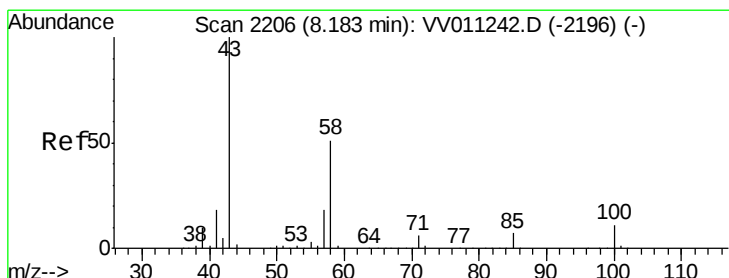
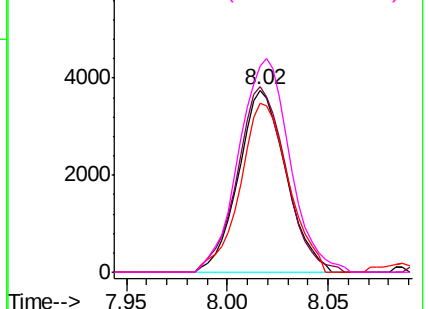
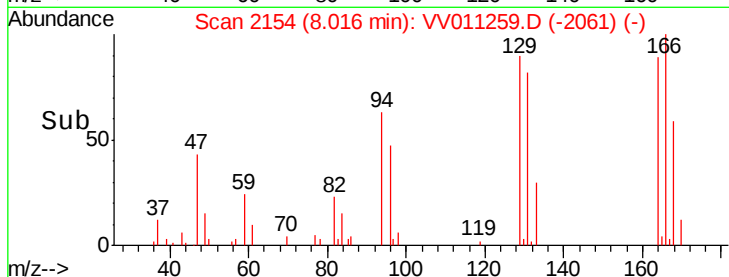
#47
Tetrachloroethene
Concen: 0.662 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV011259.D
Acq: 06 Jun 2019 21:33

Instrument :
MSVOA_V
ClientSampleId :
BFCP3

Tgt Ion:164 Resp: 6176
Ion Ratio Lower Upper
164 100
129 101.7 69.9 129.9
131 92.6 66.8 124.2
166 112.9 90.2 167.6

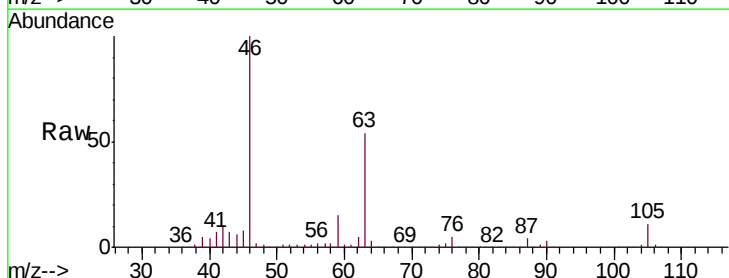


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

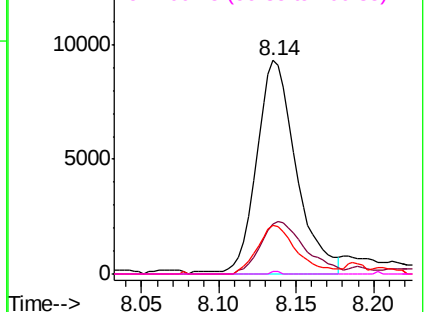
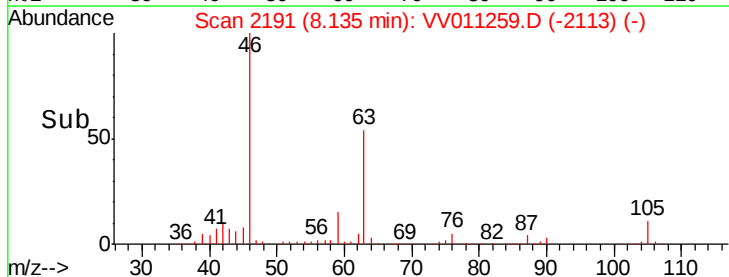


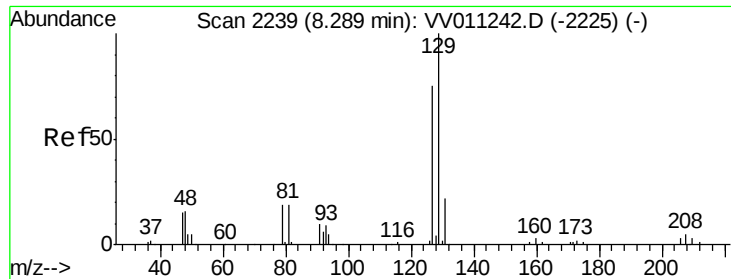
#48
2-Hexanone
Concen: 3.012 ug/L
RT: 8.14 min Scan# 2191
Delta R.T. -0.05 min
Lab File: VV011259.D
Acq: 06 Jun 2019 21:33

Tgt Ion: 43 Resp: 16633
Ion Ratio Lower Upper
43 100
58 27.6 41.4 62.0#
57 22.7 15.0 22.4#
100 0.2 9.0 13.4#



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: 0.682 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV011259.D

Acq: 06 Jun 2019 21:33

Instrument :

MSVOA_V

ClientSampleId :

BFCP3

Tgt Ion:129 Resp: 6164

Ion Ratio Lower Upper

129 100

127 0.0 53.7 99.7#

