

Data File : VV012532.D
Acq On : 02 Sep 2019 16:35
Operator : SY/MD
Sample : K4607-08 50X
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFD64

Quant Time: Sep 03 05:48:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 03 05:44:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	142592	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	146834	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	67600	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	65390	4.72	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.40%
7) Chloroethane-d5	1.59	69	66876	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.80%
11) 1,1-Dichloroethene-d2	2.13	63	110363	3.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.20%
20) 2-Butanone-d5	3.93	46	132163	50.08	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.16%
24) Chloroform-d	4.40	84	104130	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
26) 1,2-Dichloroethane-d4	5.08	65	58606	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.20%
32) Benzene-d6	5.10	84	201913	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.12	67	65114	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.20%
41) Toluene-d8	7.36	98	176368	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.67	79	21235	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.13	63	86925	48.88	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.76%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	45198	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	67543	5.44	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.80%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	1624	0.081	ug/L #	54
12) 1,1-Dichloroethene	2.14	96	1737	0.094	ug/L #	1
14) Carbon disulfide	2.32	76	3986	0.067	ug/L #	71
16) Methylene chloride	2.54	84	2643	0.125	ug/L	97
19) 1,1-Dichloroethane	3.23	63	1899	0.067	ug/L #	60
22) cis-1,2-Dichloroethene	3.96	96	66134	4.339	ug/L	97
25) Chloroform	4.42	83	8635	0.290	ug/L	97
27) 1,2-Dichloroethane	5.18	62	927	0.054	ug/L #	76
29) 1,1,1-Trichloroethane	4.66	97	2999	0.123	ug/L #	56
34) Trichloroethene	5.96	95	195047	11.676	ug/L	99
35) Methylcyclohexane	6.12	83	15118	0.595	ug/L #	17
42) Toluene	7.43	91	4652	0.071	ug/L	92
47) Tetrachloroethene	8.02	164	3437	0.285	ug/L	90
48) 2-Hexanone	8.19	43	8469	1.289	ug/L #	51
53) m,p-xylene	9.18	106	2984	0.115	ug/L	89
54) o-xylene	9.58	106	6546	0.268	ug/L	83
56) Isopropylbenzene	9.98	105	4535	0.067	ug/L #	85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090219\
Quantitation Report (Not Reviewed)

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QLast Update : Tue Sep 03 05:44:01 2019
Response via : Initial Calibration

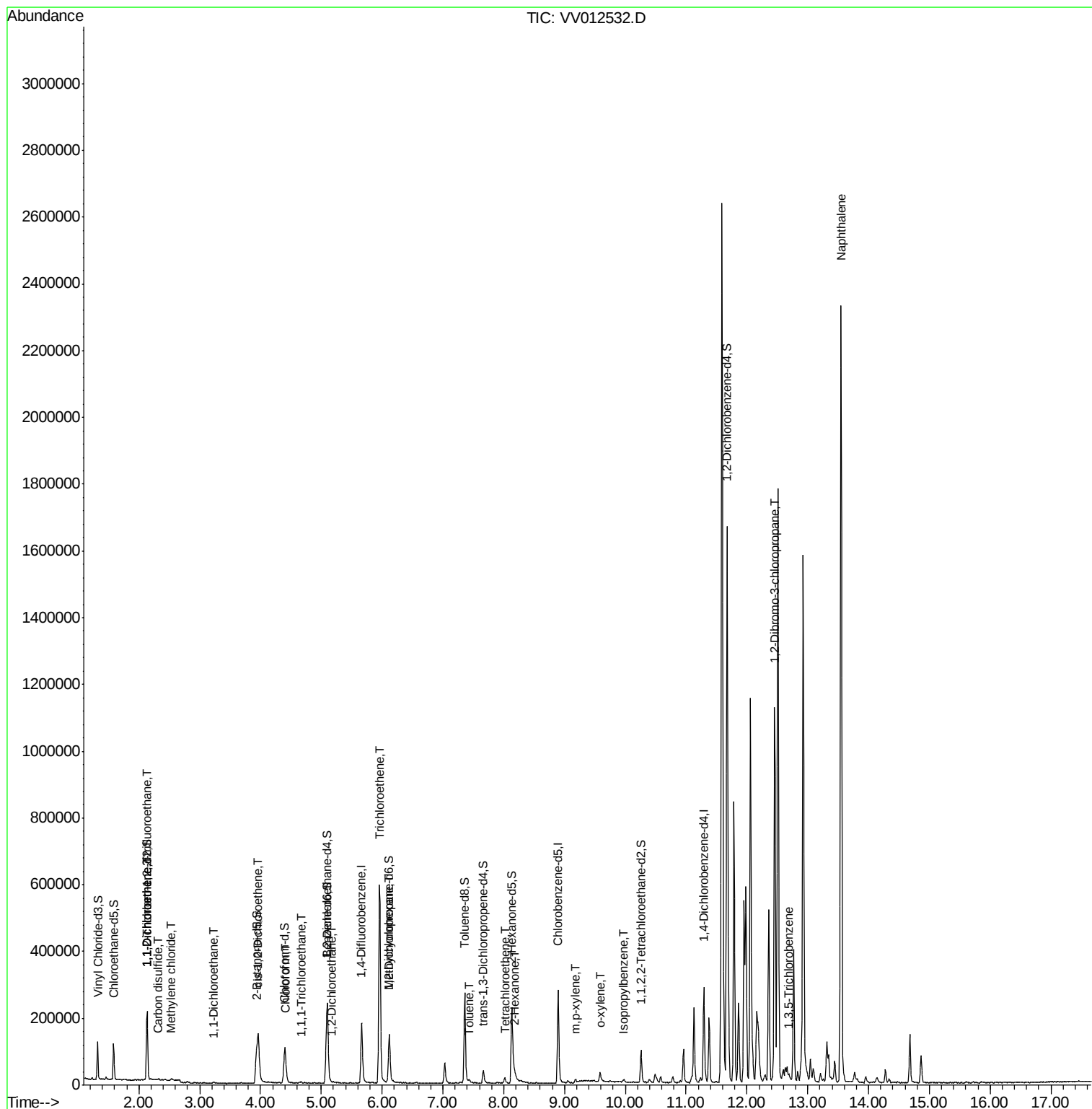
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	12.46	75	5058	2.805	ug/L #	10
67) 1,3,5-Trichlorobenzene	12.69	180	1194	0.055	ug/L #	85
69) Naphthalene	13.55	128	1662469	72.165	ug/L	100

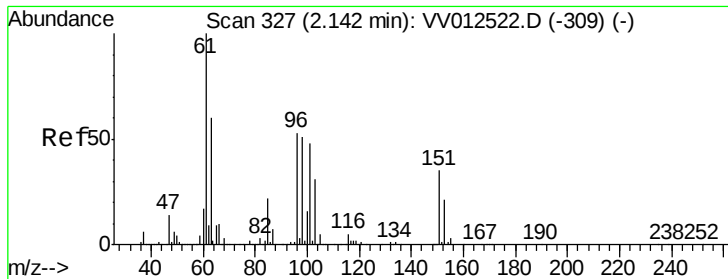
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.081 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

BFD64

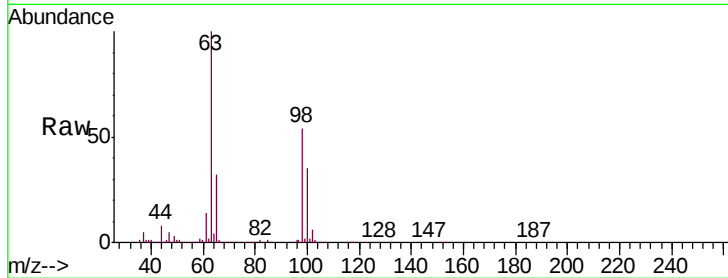
Tgt Ion: 101 Resp: 1624

Ion Ratio Lower Upper

101 100

85 23.9 37.4 56.0#

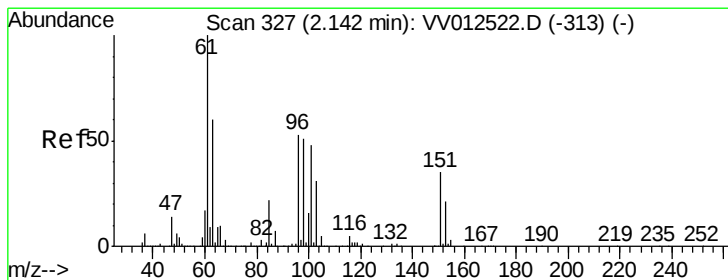
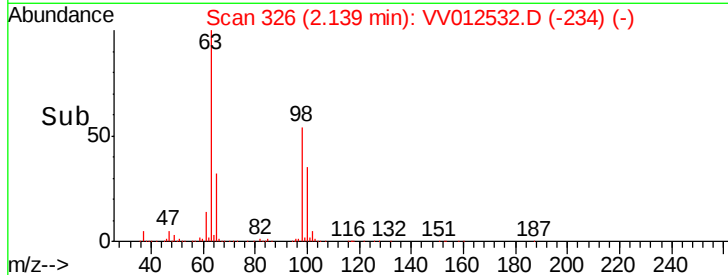
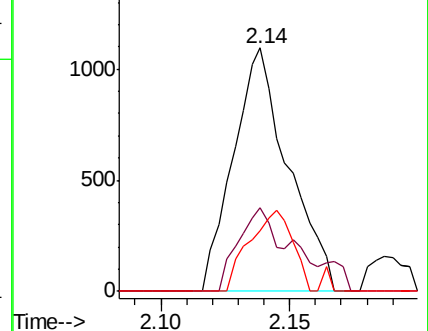
151 26.5 56.7 85.1#



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: 0.094 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

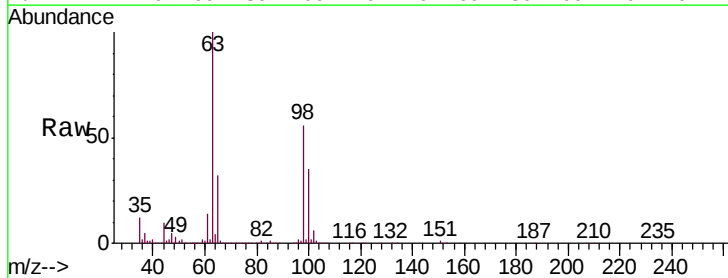
Tgt Ion: 96 Resp: 1737

Ion Ratio Lower Upper

96 100

61 874.3 133.7 248.3#

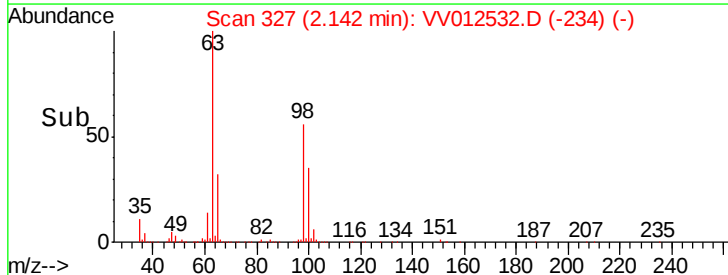
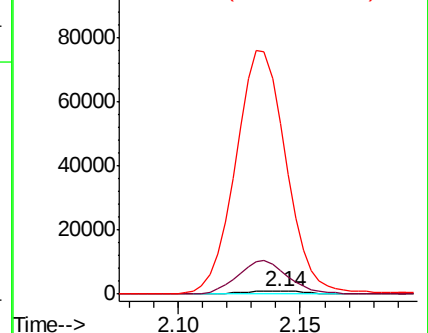
63 6183.9 83.2 154.6#

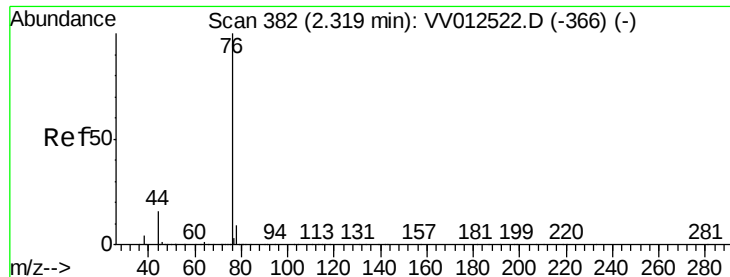


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#14

Carbon disulfide

Concen: 0.067 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

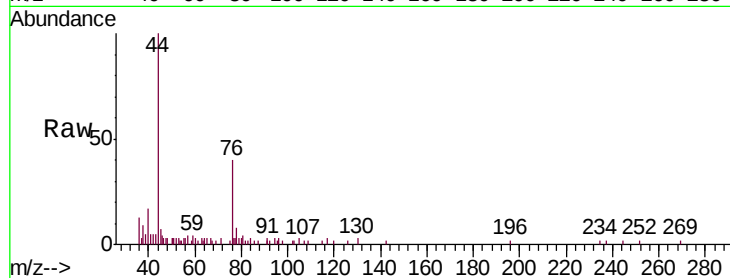
BFD64

Tgt Ion: 76 Resp: 3986

Ion Ratio Lower Upper

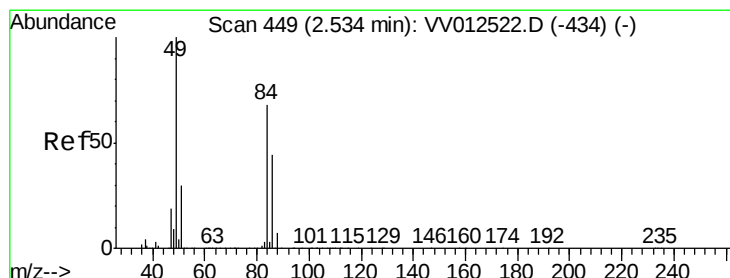
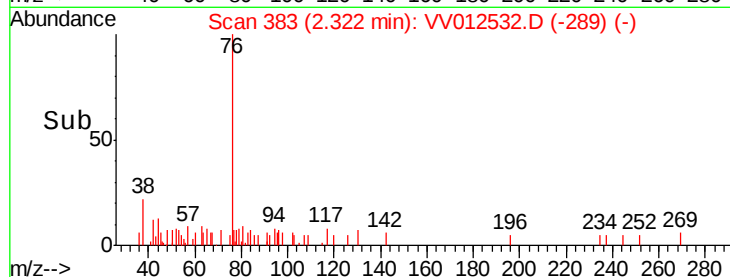
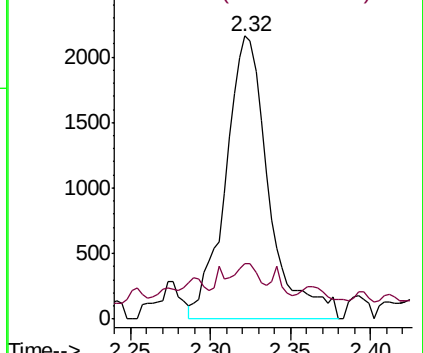
76 100

78 19.8 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 0.125 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

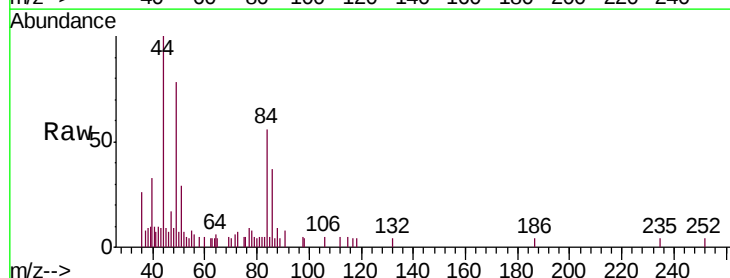
Tgt Ion: 84 Resp: 2643

Ion Ratio Lower Upper

84 100

86 66.1 45.2 84.0

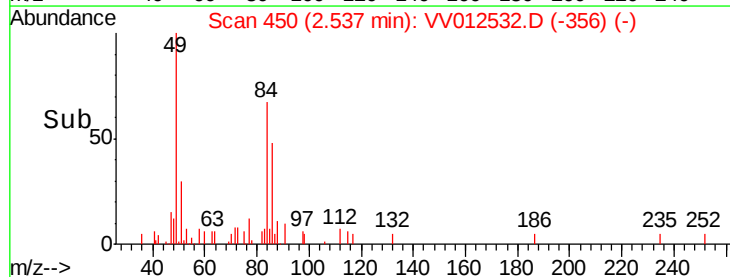
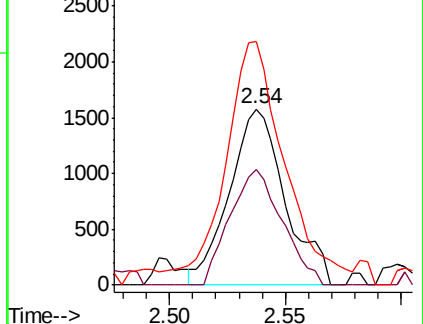
49 138.5 100.4 186.4

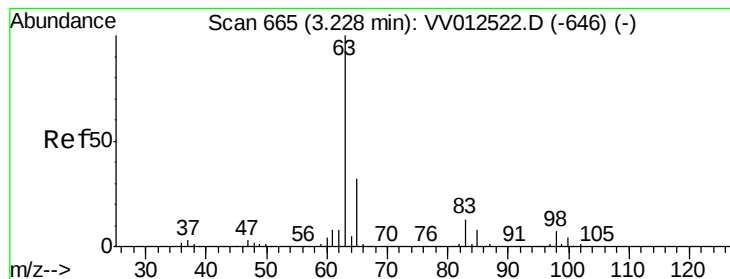


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0





#19

1,1-Dichloroethane

Concen: 0.067 ug/L

RT: 3.23 min Scan# 667

Delta R.T. 0.01 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

Instrument :

MSVOA_V

ClientSampled :

BFD64

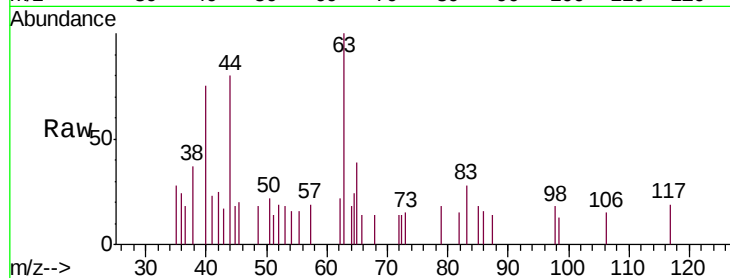
Tgt Ion: 63 Resp: 1899

Ion Ratio Lower Upper

63 100

65 53.3 21.5 39.9#

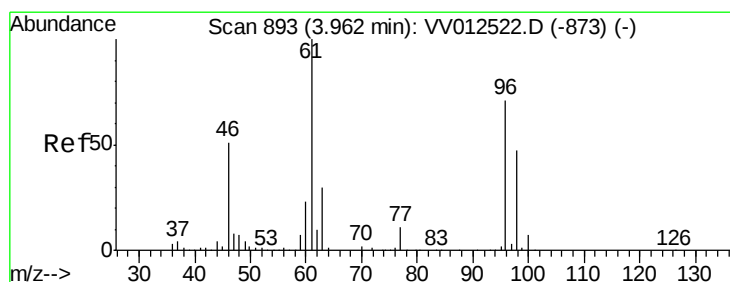
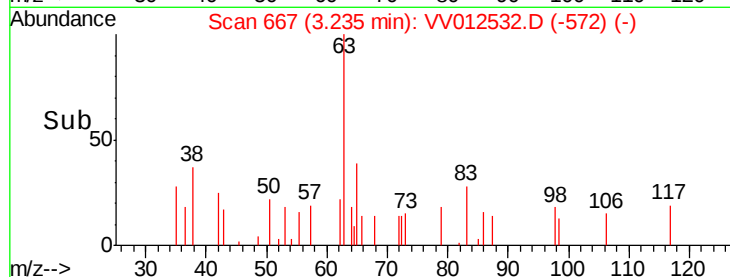
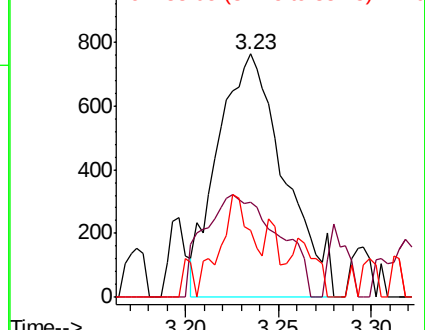
83 27.5 9.1 16.9#



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: 4.339 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

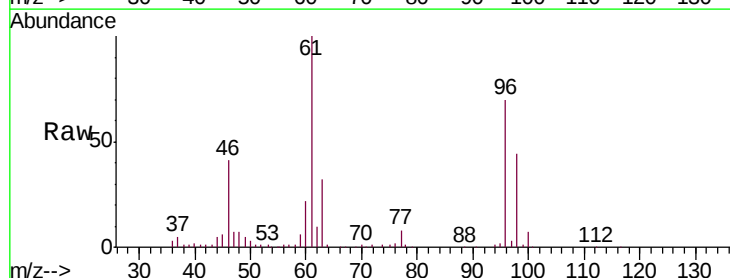
Tgt Ion: 96 Resp: 66134

Ion Ratio Lower Upper

96 100

61 142.6 97.5 181.1

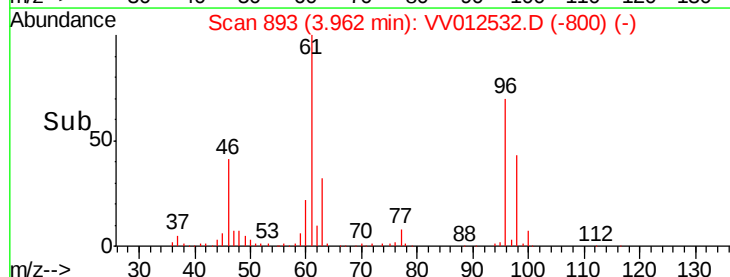
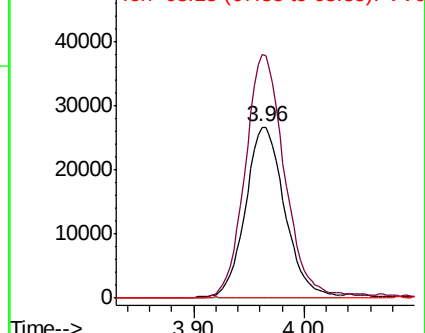
68 0.0 0.0 0.0

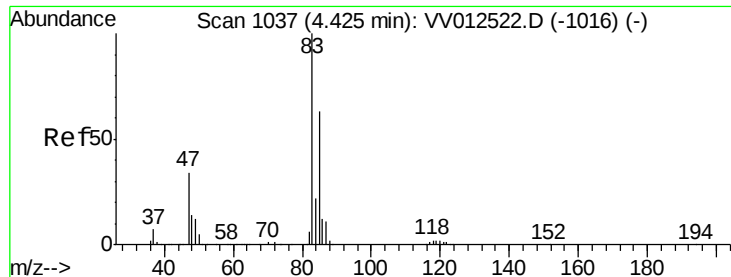


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0





#25

Chloroform

Concen: 0.290 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

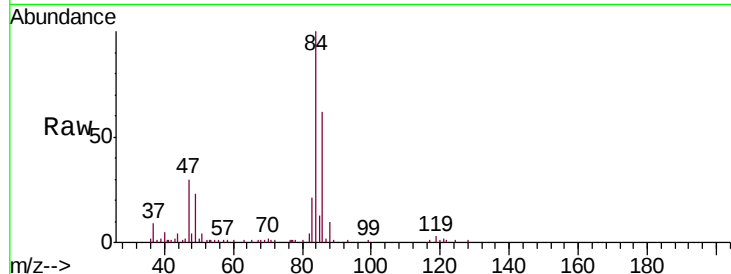
Instrument :
MSVOA_V
ClientSampled :
BFD64

Tgt Ion: 83 Resp: 8635

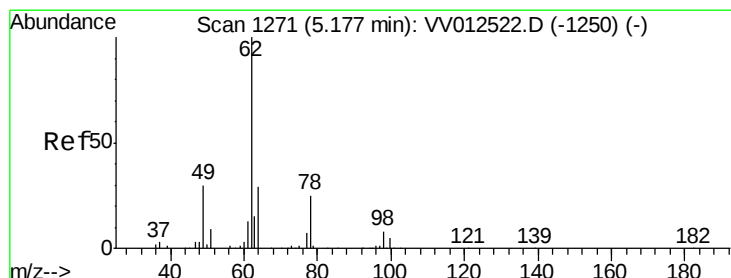
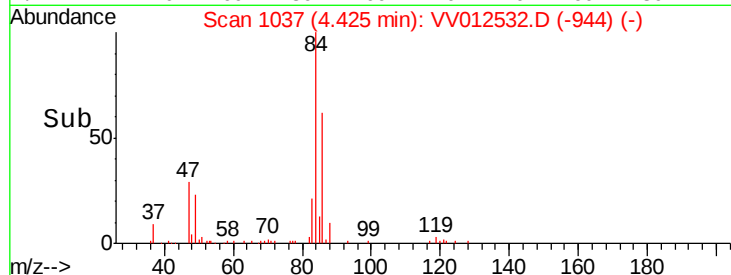
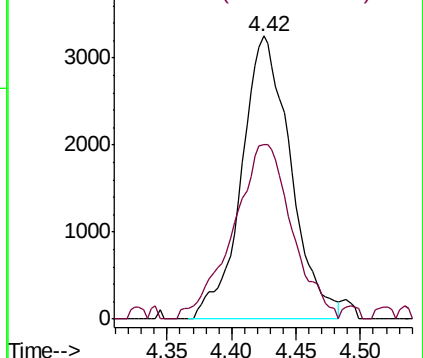
Ion Ratio Lower Upper

83 100

85 61.8 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VV0
Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 0.054 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VV012532.D

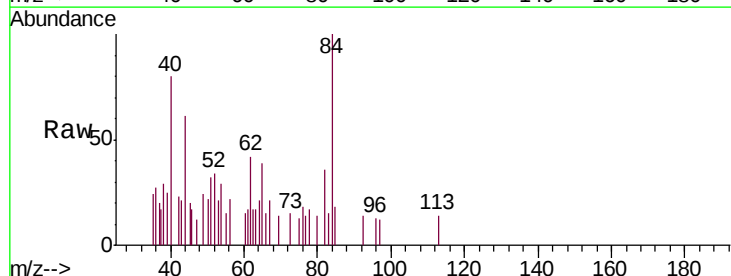
Acq: 02 Sep 2019 16:35

Tgt Ion: 62 Resp: 927

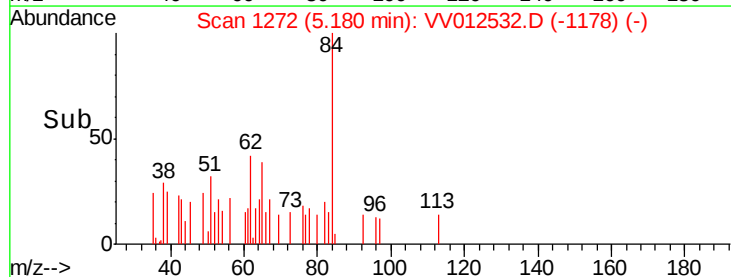
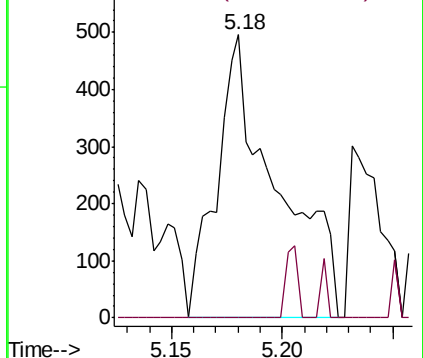
Ion Ratio Lower Upper

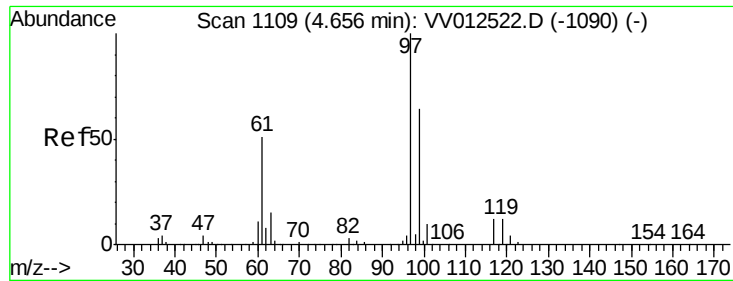
62 100

98 0.0 6.7 10.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.05 (97.75 to 98.75): VV0

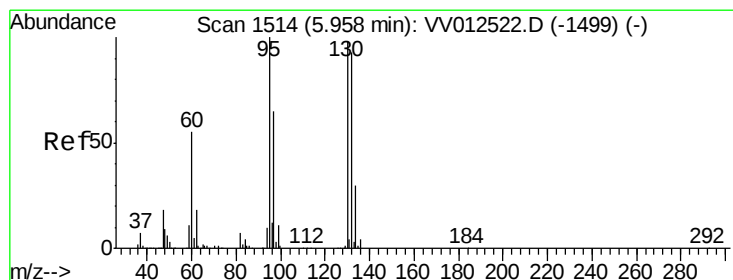
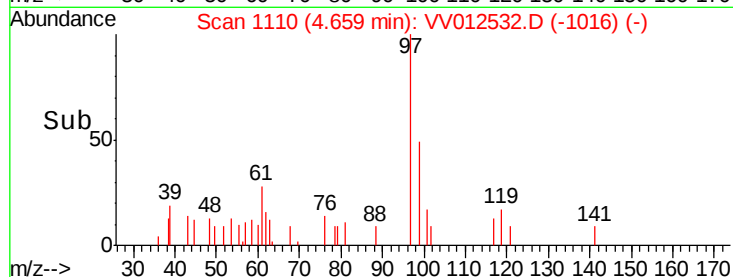
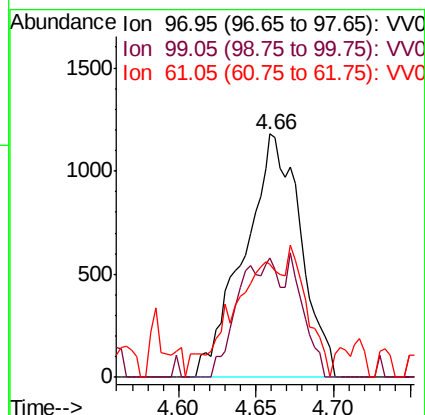
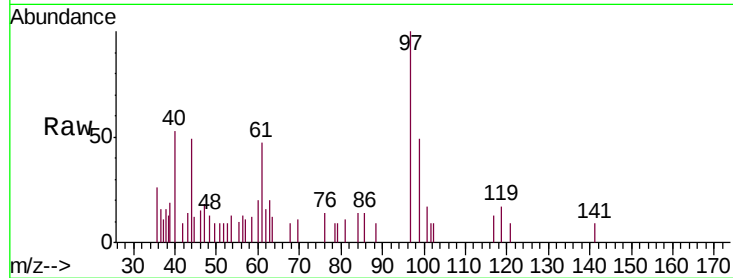




#29
 1,1,1-Trichloroethane
 Concen: 0.123 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.00 min
 Lab File: VV012532.D
 Acq: 02 Sep 2019 16:35

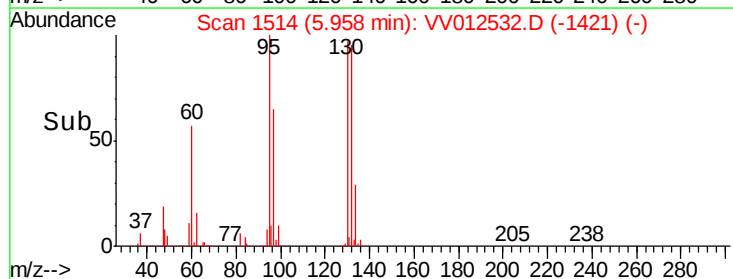
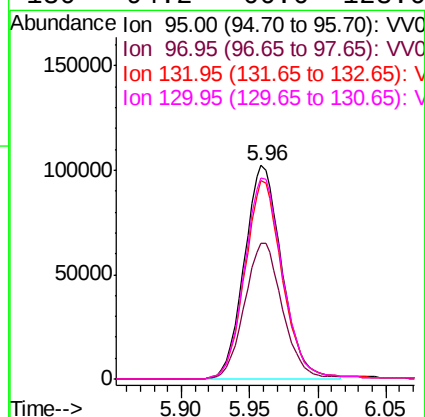
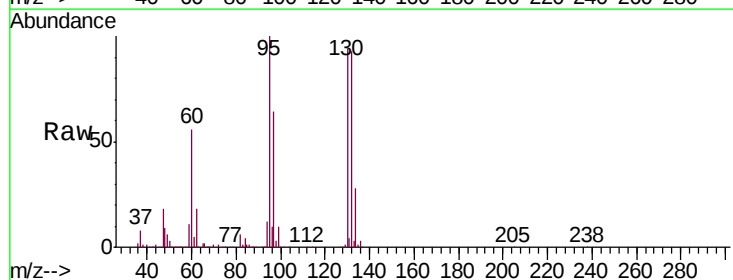
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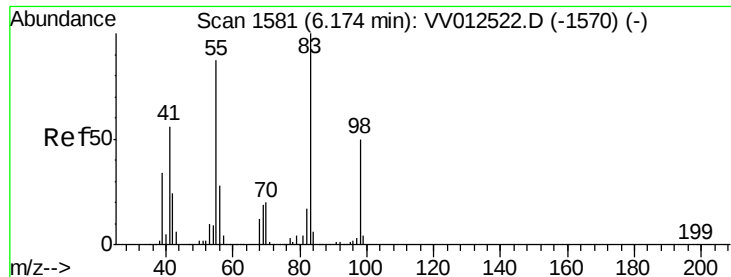
Tgt Ion: 97 Resp: 2999
 Ion Ratio Lower Upper
 97 100
 99 13.4 52.6 79.0#
 61 41.0 43.4 65.2#



#34
 Trichloroethene
 Concen: 11.676 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV012532.D
 Acq: 02 Sep 2019 16:35

Tgt Ion: 95 Resp: 195047
 Ion Ratio Lower Upper
 95 100
 97 63.6 44.7 83.1
 132 92.7 63.8 118.4
 130 94.2 66.6 123.6

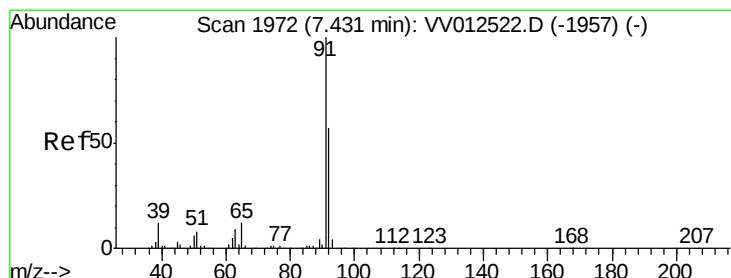
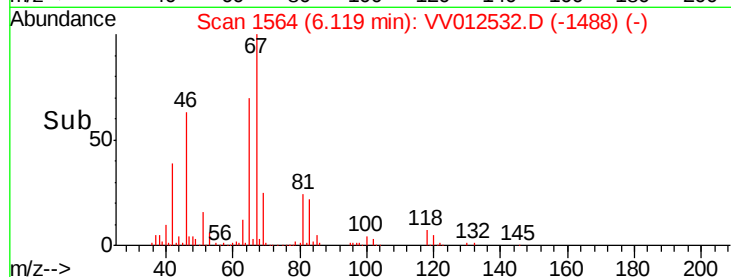
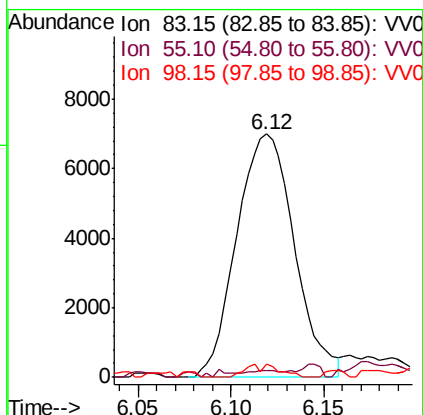
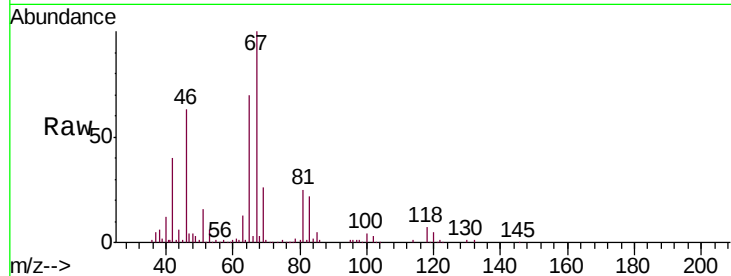




#35
Methylcyclohexane
Concen: 0.595 ug/L
RT: 6.12 min Scan# 1564
Delta R.T. -0.05 min
Lab File: VV012532.D
Acq: 02 Sep 2019 16:35

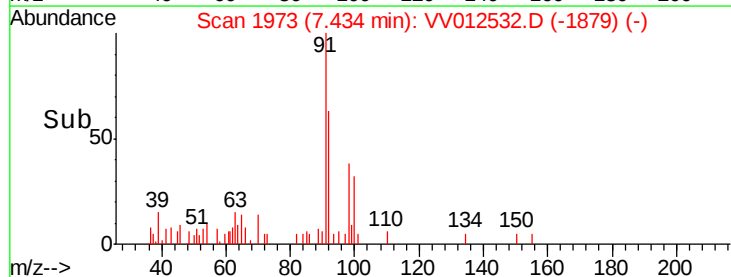
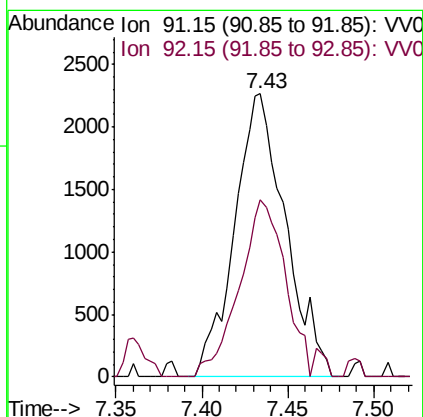
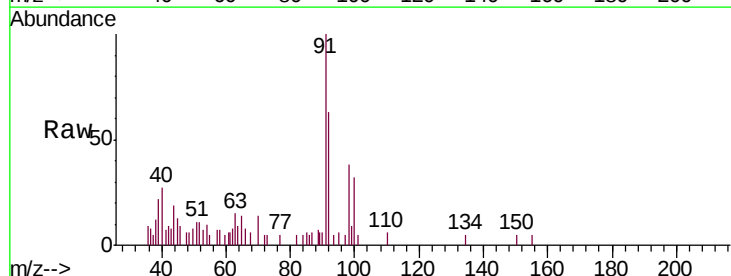
Instrument :
MSVOA_V
ClientSampleId :
BFD64

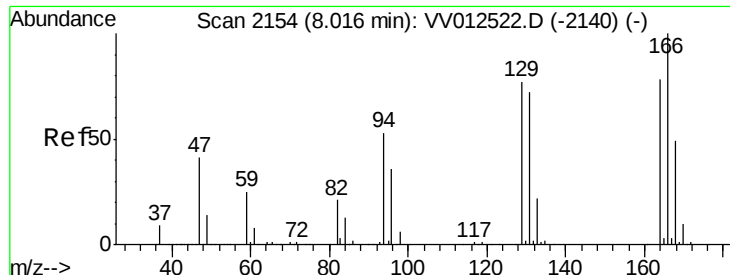
Tgt Ion: 83 Resp: 15118
Ion Ratio Lower Upper
83 100
55 0.5 67.3 100.9#
98 1.6 37.4 56.2#



#42
Toluene
Concen: 0.071 ug/L
RT: 7.43 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VV012532.D
Acq: 02 Sep 2019 16:35

Tgt Ion: 91 Resp: 4652
Ion Ratio Lower Upper
91 100
92 62.8 39.6 73.6





#47

Tetrachloroethene

Concen: 0.285 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

Instrument :
MSVOA_V
ClientSampleId :
BFD64

Tgt Ion:164 Resp: 3437

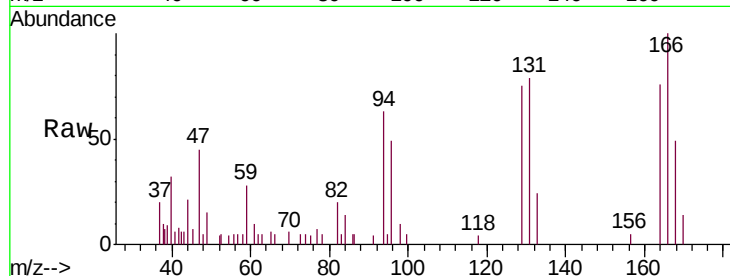
Ion Ratio Lower Upper

164 100

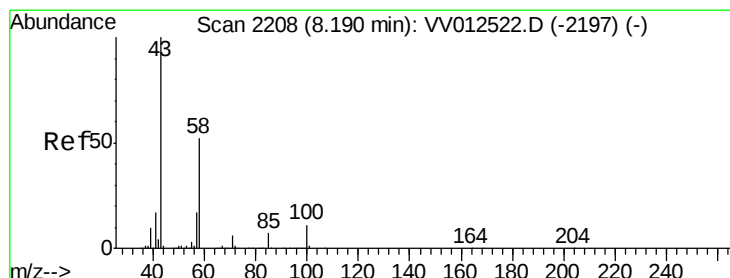
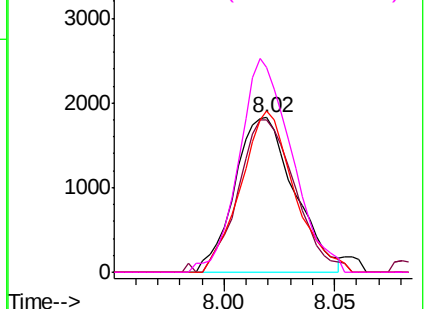
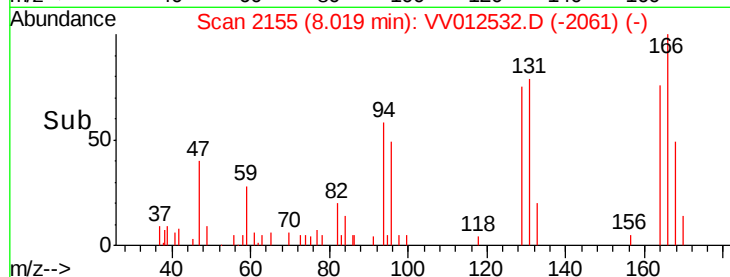
129 98.6 64.5 119.9

131 104.6 62.3 115.7

166 132.3 86.5 160.6



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: 1.289 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. -0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

Tgt Ion: 43 Resp: 8469

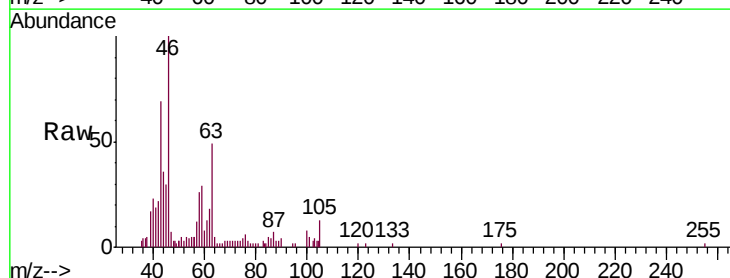
Ion Ratio Lower Upper

43 100

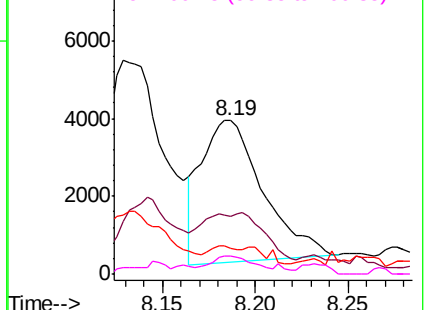
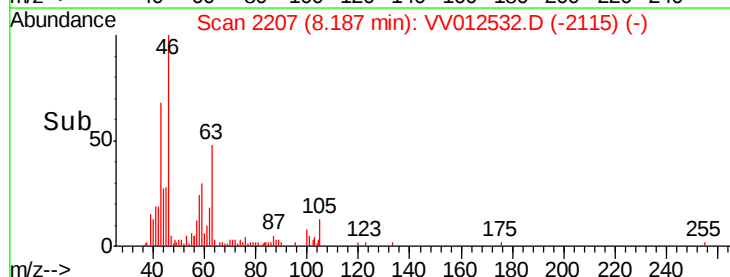
58 5.6 40.0 60.0#

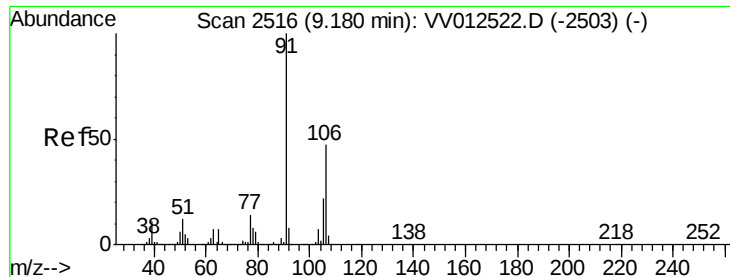
57 2.7 13.4 20.2#

100 9.1 8.2 12.2



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





#53

m,p-xylene

Concen: 0.115 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

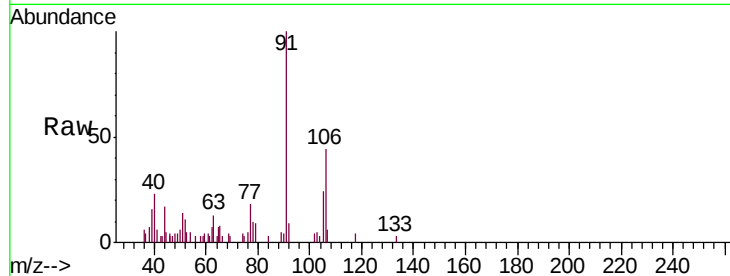
BFD64

Tgt Ion:106 Resp: 2984

Ion Ratio Lower Upper

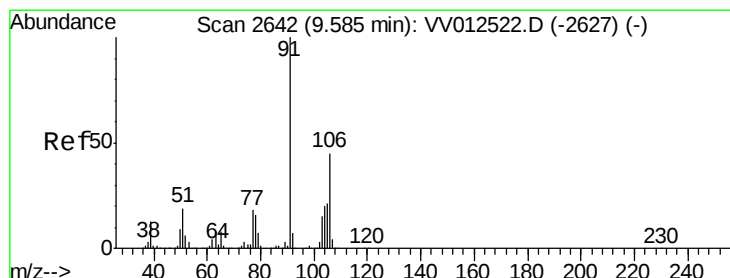
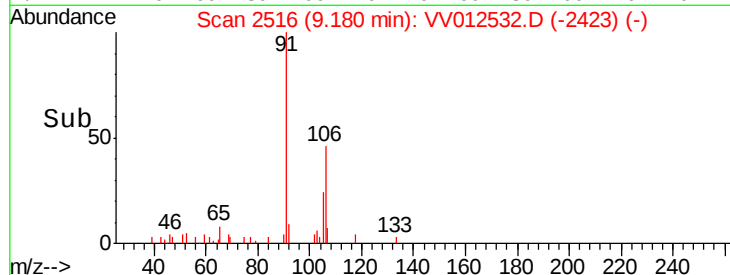
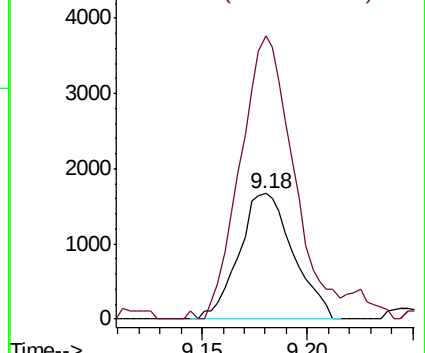
106 100

91 225.1 145.8 270.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 0.268 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV012532.D

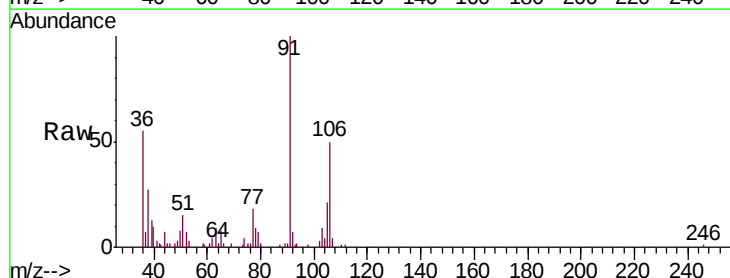
Acq: 02 Sep 2019 16:35

Tgt Ion:106 Resp: 6546

Ion Ratio Lower Upper

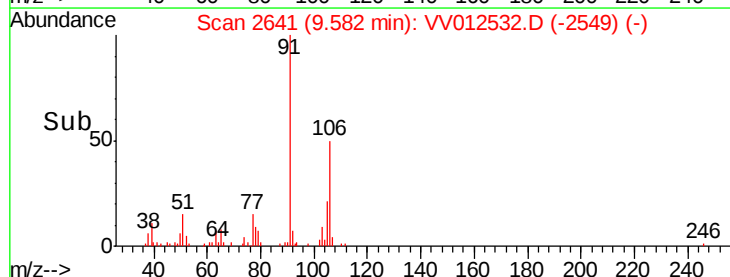
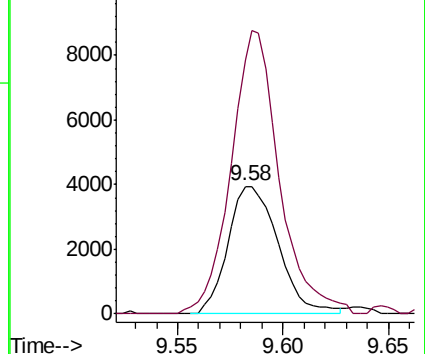
106 100

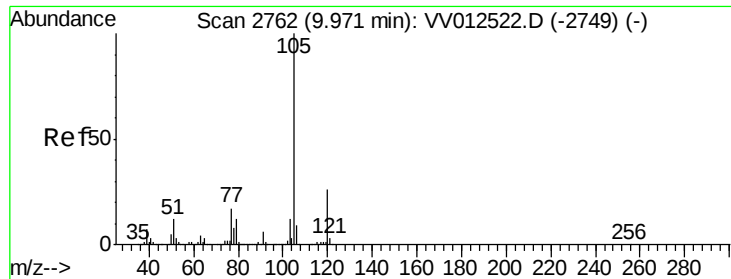
91 199.2 159.5 296.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#56

Isopropylbenzene

Concen: 0.067 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.01 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

BFD64

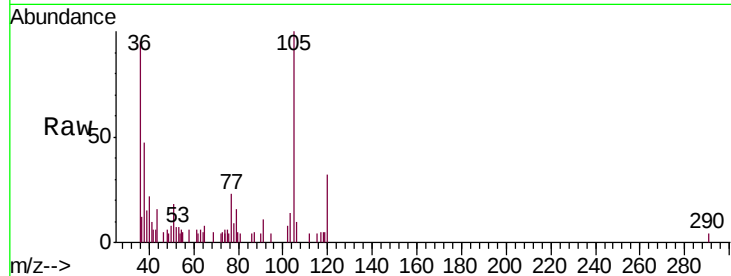
Tgt Ion: 105 Resp: 4535

Ion Ratio Lower Upper

105 100

120 34.4 20.9 31.3#

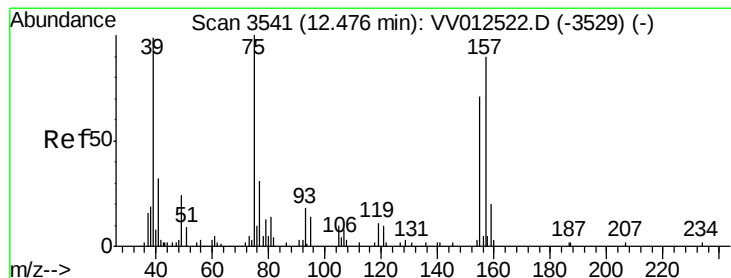
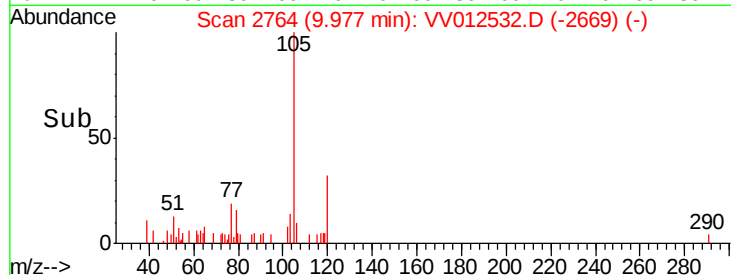
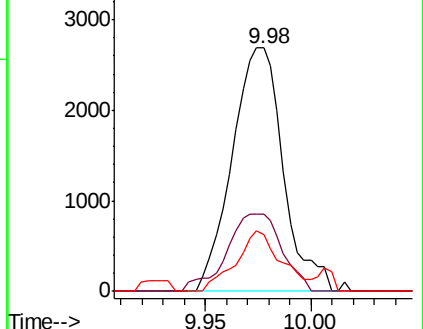
77 22.1 13.5 20.3#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#66

1,2-Dibromo-3-chloropropane

Concen: 2.805 ug/L

RT: 12.46 min Scan# 3535

Delta R.T. -0.02 min

Lab File: VV012532.D

Acq: 02 Sep 2019 16:35

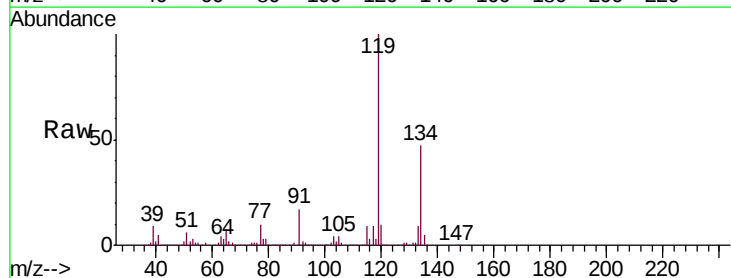
Tgt Ion: 75 Resp: 5058

Ion Ratio Lower Upper

75 100

155 0.0 50.6 75.8#

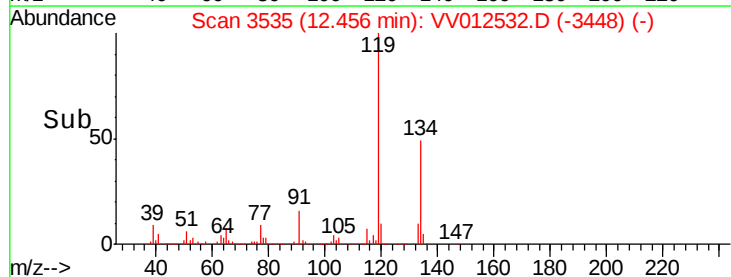
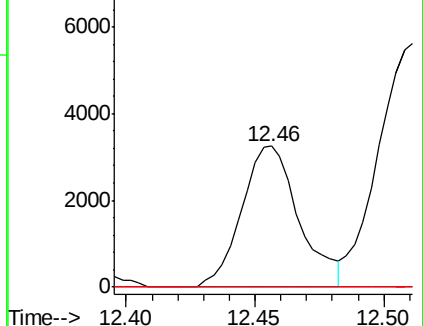
157 0.0 72.6 109.0#

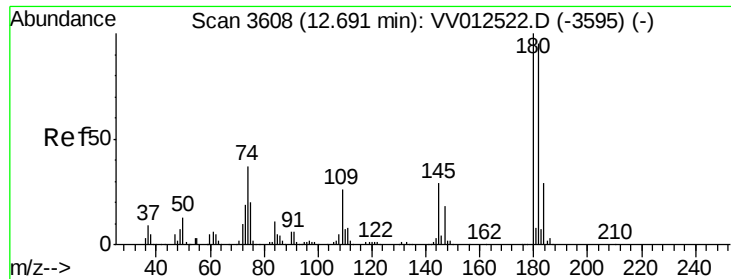


Abundance Ion 75.05 (74.75 to 75.75): V

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

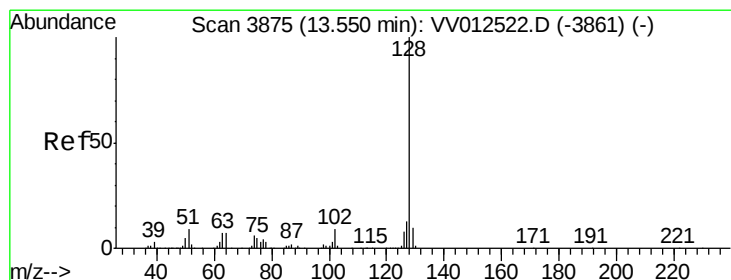
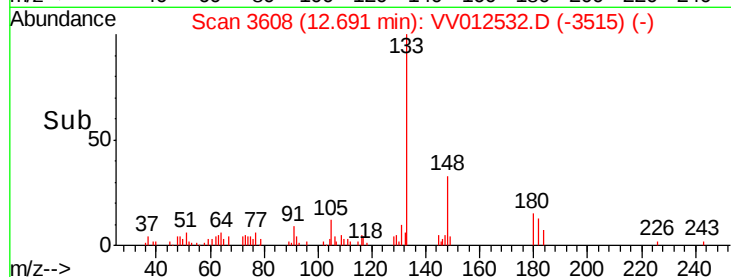
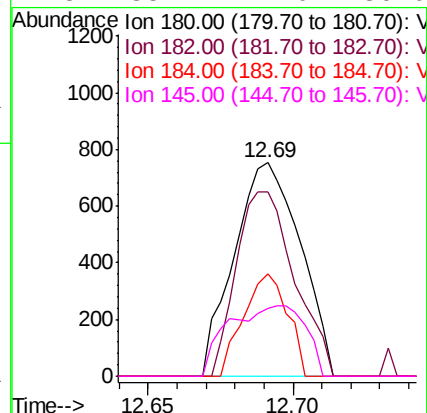
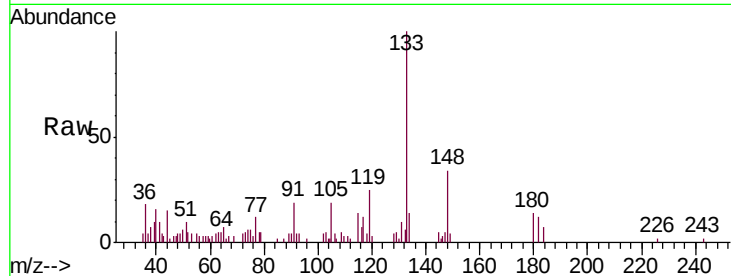




#67
 1,3,5-Trichlorobenzene
 Concen: 0.055 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012532.D
 Acq: 02 Sep 2019 16:35

Instrument :
 MSVOA_V
 ClientSampleId :
 BFD64

Tgt Ion:180 Resp: 1194
 Ion Ratio Lower Upper
 180 100
 182 75.9 74.4 111.6
 184 31.7 23.4 35.0
 145 38.4 24.0 36.0#



#69
 Naphthalene
 Concen: 72.165 ug/L
 RT: 13.55 min Scan# 3874
 Delta R.T. -0.00 min
 Lab File: VV012532.D
 Acq: 02 Sep 2019 16:35

Tgt Ion:128 Resp: 1662469
 Ion Ratio Lower Upper
 128 100
 129 10.9 8.8 13.2
 127 13.5 11.0 16.4

