

Data File : VV013749.D
Acq On : 22 Nov 2019 21:24
Operator : SY/MD
Sample : K5941-18DL 5X
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
B0AD4DL

Quant Time: Nov 23 01:41:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Nov 23 01:35:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	323626	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	323980	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	151915	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	109483	5.47	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	109.40%
7) Chloroethane-d5	1.58	69	99575	5.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	117.00%
11) 1,1-Dichloroethene-d2	2.13	63	165673	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.20%
20) 2-Butanone-d5	3.92	46	275091	66.06	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	132.12%#
24) Chloroform-d	4.40	84	215988	5.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.00%
26) 1,2-Dichloroethane-d4	5.08	65	115344	6.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	120.00%
32) Benzene-d6	5.10	84	440587	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.40%
36) 1,2-Dichloropropane-d6	6.11	67	138918	5.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.60%
41) Toluene-d8	7.36	98	373294	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
43) trans-1,3-Dichloropropene-	7.66	79	48023	4.95	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.00%
46) 2-Hexanone-d5	8.13	63	194300	54.33	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.66%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	99101	5.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	160681	5.99	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	119.80%

Target Compounds

					Qvalue	
5) Vinyl chloride	1.32	62	7195	0.372	ug/L #	23
8) Chloroethane	1.60	64	8341	0.716	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1939	0.109	ug/L #	25
12) 1,1-Dichloroethene	2.14	96	33911	2.179	ug/L #	37
14) Carbon disulfide	2.32	76	1596	0.044	ug/L #	95
16) Methylene chloride	2.53	84	16077	0.754	ug/L	96
17) Methyl tert-butyl Ether	2.80	73	14130	0.332	ug/L #	92
19) 1,1-Dichloroethane	3.23	63	97207	2.771	ug/L	99
22) cis-1,2-Dichloroethene	3.97	96	8995	0.437	ug/L	94
25) Chloroform	4.42	83	13099	0.352	ug/L	90
29) 1,1,1-Trichloroethane	4.66	97	26151	0.789	ug/L	98
34) Trichloroethene	5.95	95	210039	9.581	ug/L	98
35) Methylcyclohexane	6.11	83	33799	1.155	ug/L #	19
37) 1,2-Dichloropropane	6.11	63	14971	0.733	ug/L #	84
42) Toluene	7.43	91	9670	0.113	ug/L	100
44) trans-1,3-Dichloropropene	7.66	75	2269	0.100	ug/L	87
47) Tetrachloroethene	8.02	164	9230	0.485	ug/L	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV112219\
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Nov 23 01:35:18 2019
Response via : Initial Calibration

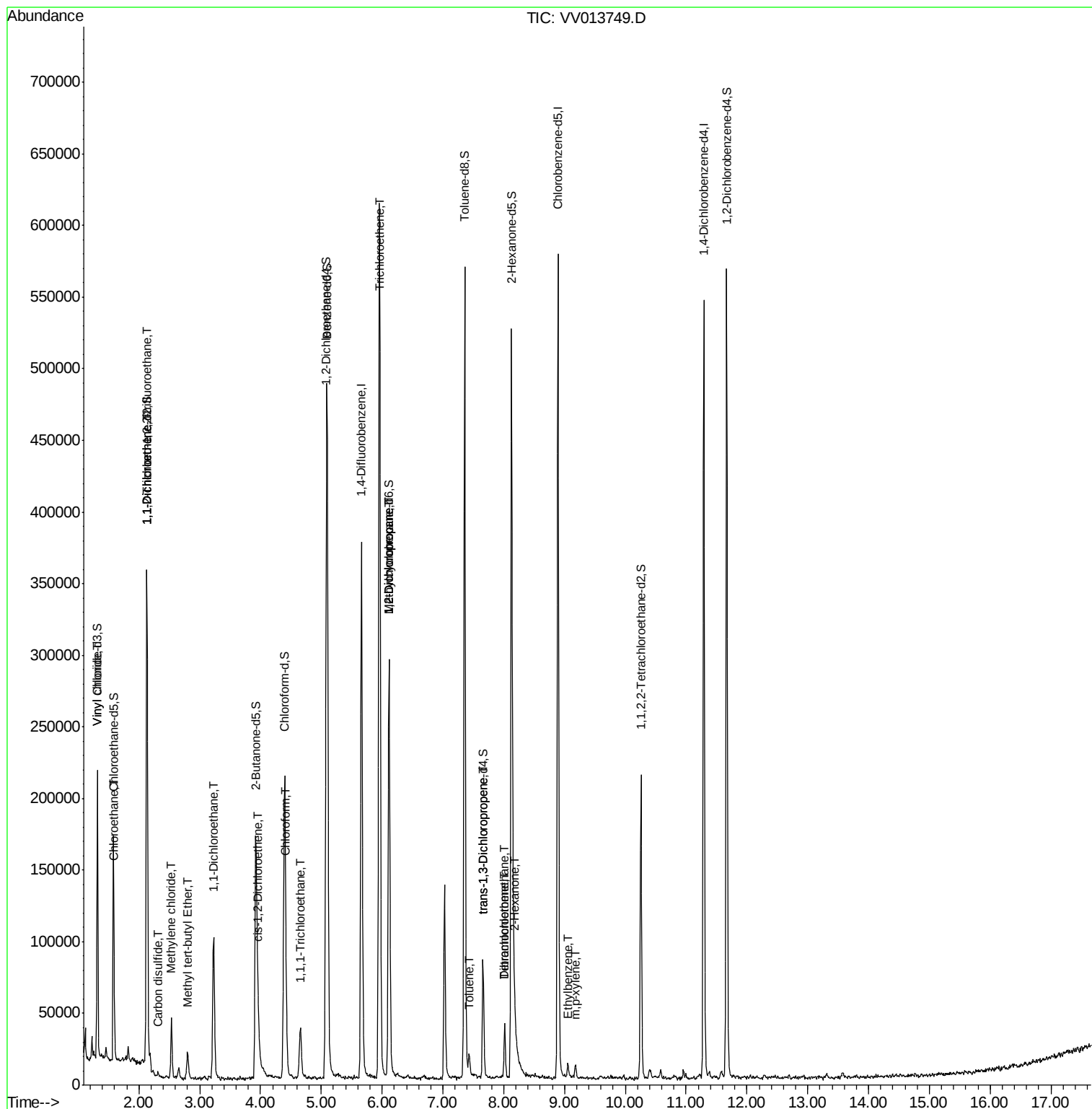
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.18	43	12368	1.454	ug/L #	80
49) Dibromochloromethane	8.02	129	7710	0.413	ug/L #	10
52) Ethylbenzene	9.05	91	6231	0.067	ug/L	93
53) m,p-xylene	9.18	106	2486	0.070	ug/L	96

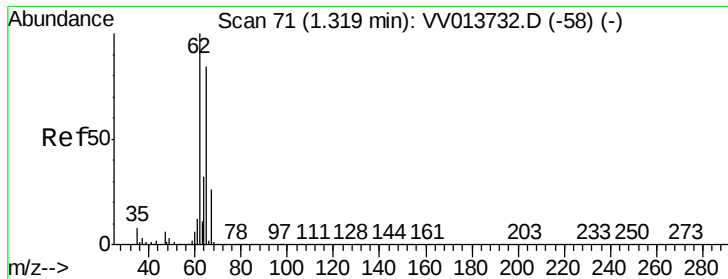
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.372 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

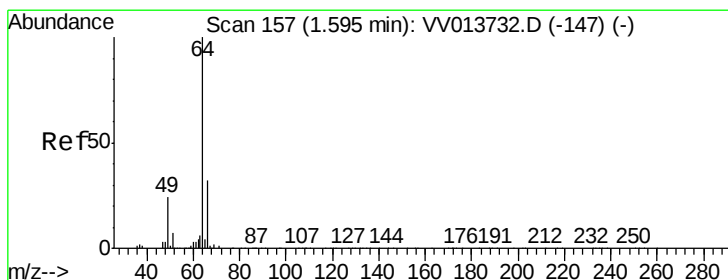
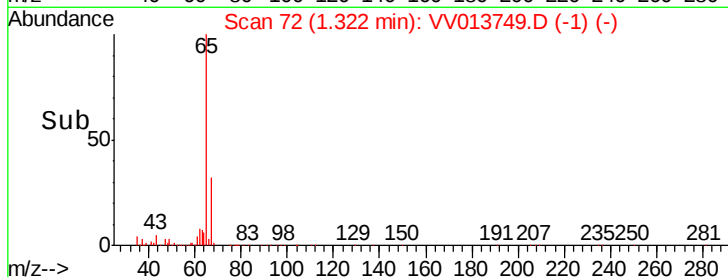
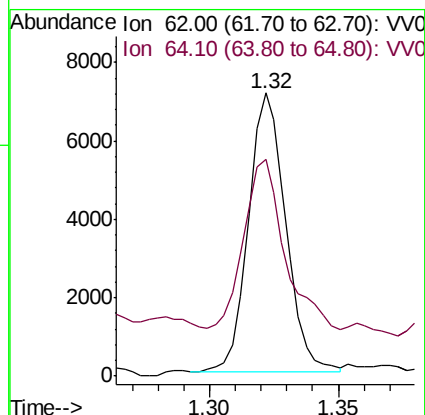
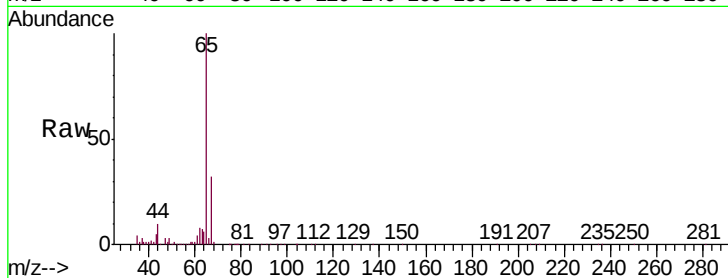
B0AD4DL

Tgt Ion: 62 Resp: 7195

Ion Ratio Lower Upper

62 100

64 76.8 23.3 43.3#



#8

Chloroethane

Concen: 0.716 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013749.D

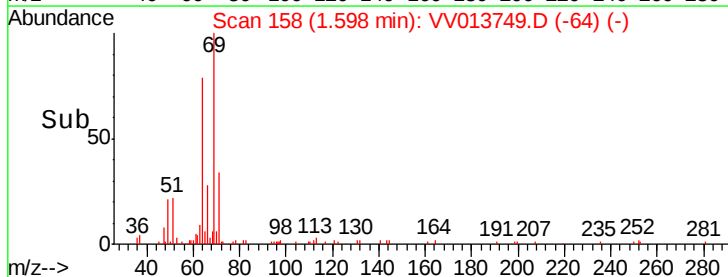
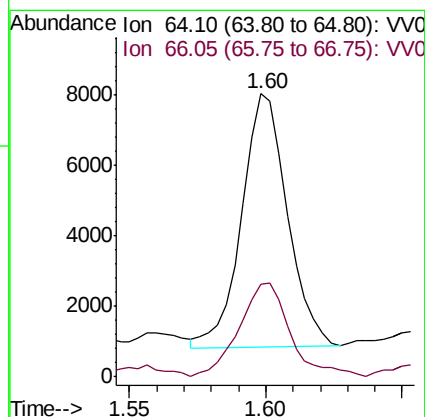
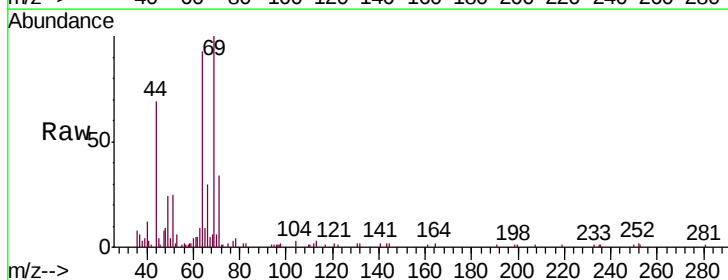
Acq: 22 Nov 2019 21:24

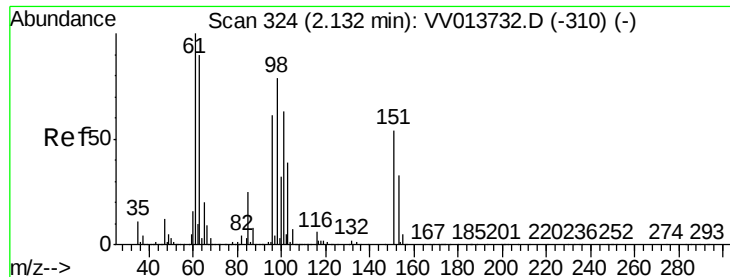
Tgt Ion: 64 Resp: 8341

Ion Ratio Lower Upper

64 100

66 32.7 22.6 42.0





#10

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

Concen: 0.109 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

B0AD4DL

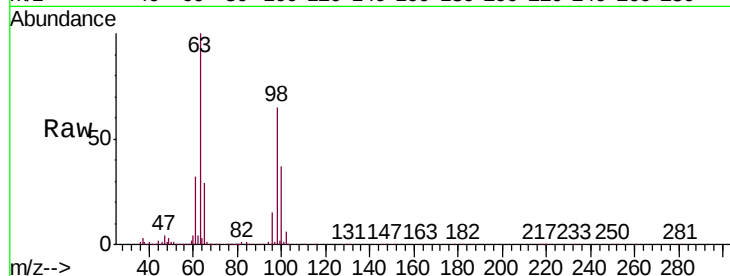
Tgt Ion: 101 Resp: 1939

Ion Ratio Lower Upper

101 100

85 15.2 33.4 50.0#

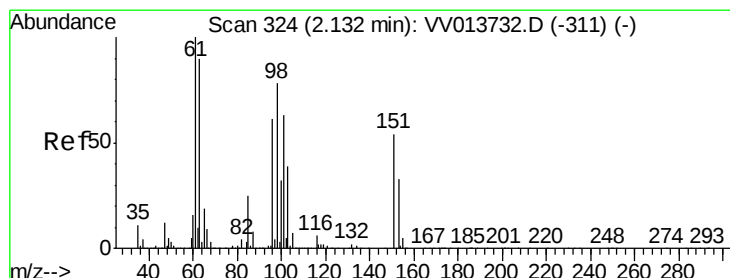
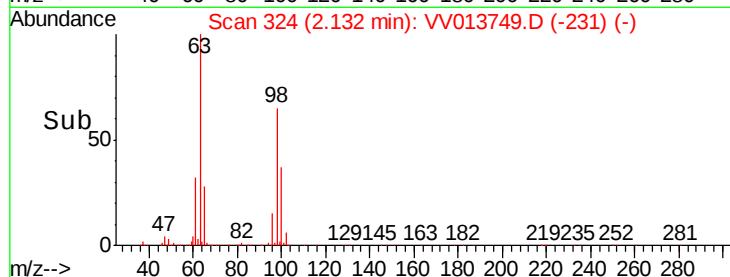
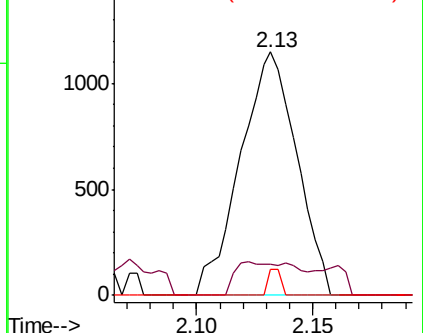
151 2.5 69.4 104.0#



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: 2.179 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

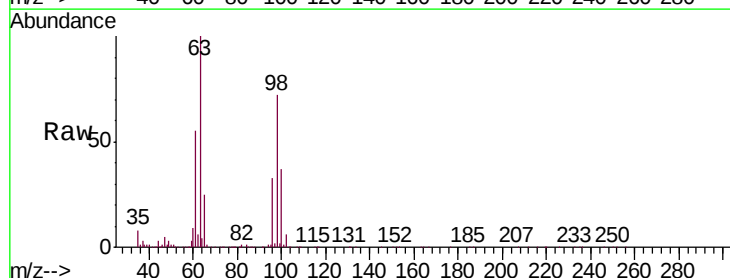
Tgt Ion: 96 Resp: 33911

Ion Ratio Lower Upper

96 100

61 167.3 116.3 215.9

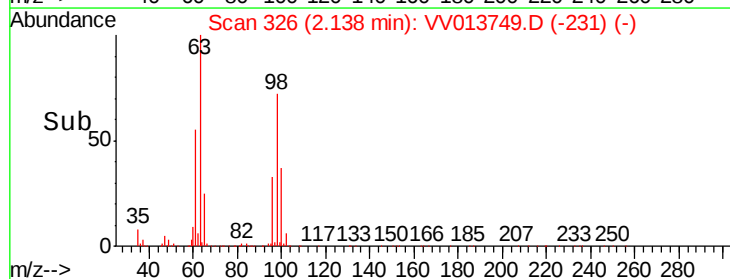
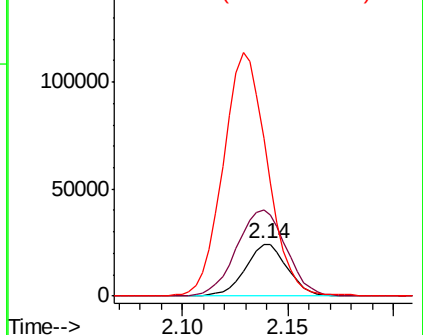
63 304.1 96.7 179.7#

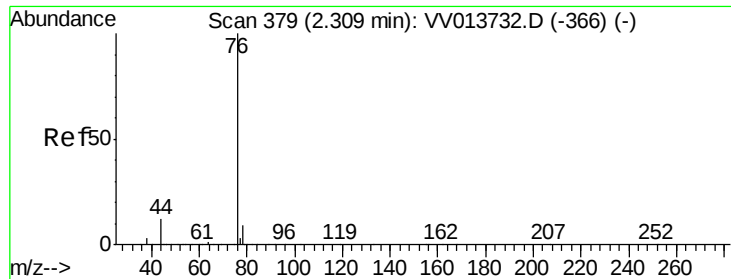


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#14

Carbon disulfide

Concen: 0.044 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampled :

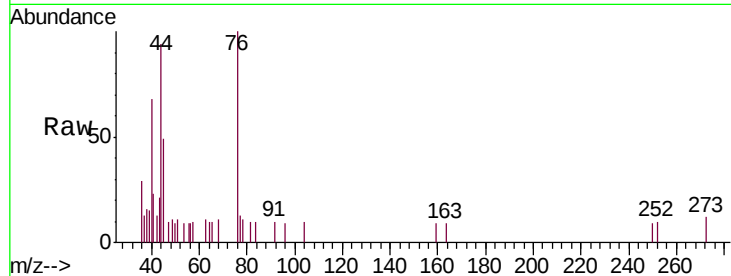
B0AD4DL

Tgt Ion: 76 Resp: 1596

Ion Ratio Lower Upper

76 100

78 11.3 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

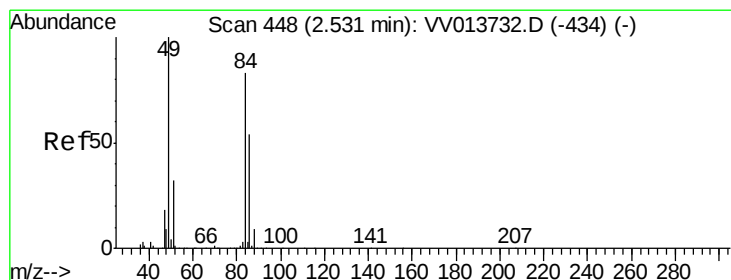
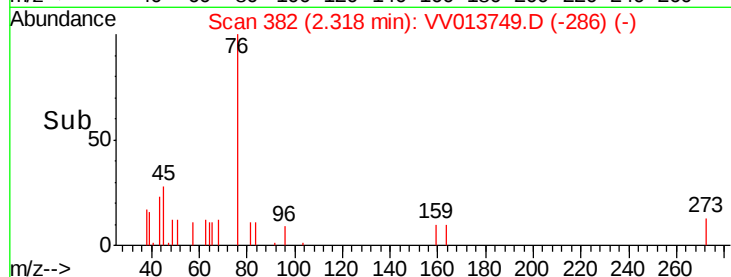
1000

500

0

2.28 2.30 2.32 2.34 2.36

Time-->



#16

Methylene chloride

Concen: 0.754 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

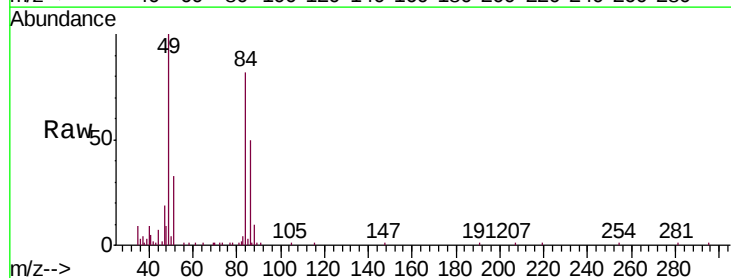
Tgt Ion: 84 Resp: 16077

Ion Ratio Lower Upper

84 100

86 60.6 44.0 81.6

49 122.4 81.5 151.5



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

15000

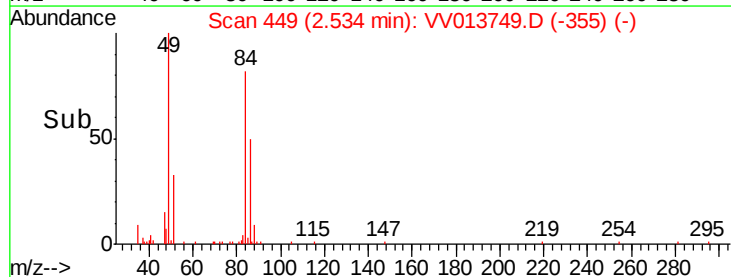
10000

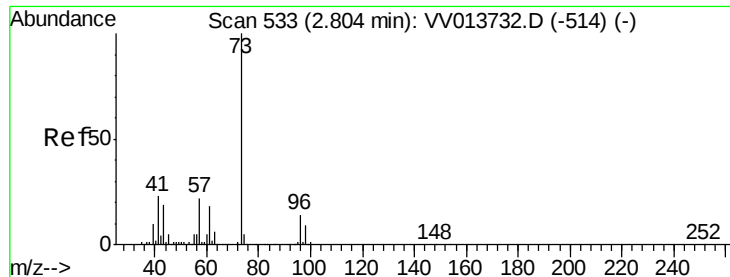
5000

0

2.50 2.53 2.56

Time-->





#17

Methyl tert-butyl Ether

Concen: 0.332 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

B0AD4DL

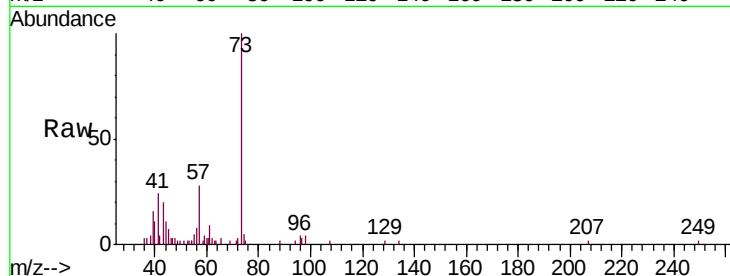
Tgt Ion: 73 Resp: 14130

Ion Ratio Lower Upper

73 100

43 20.0 15.5 23.3

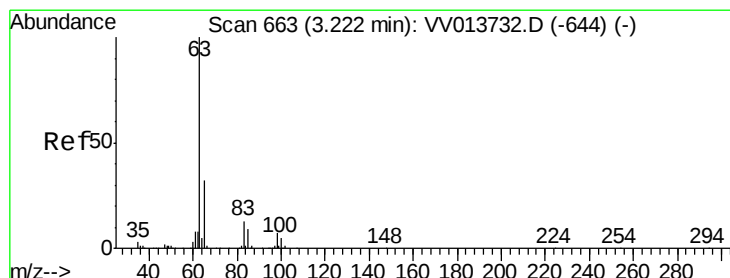
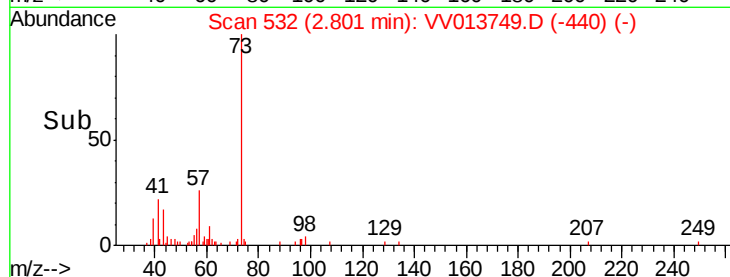
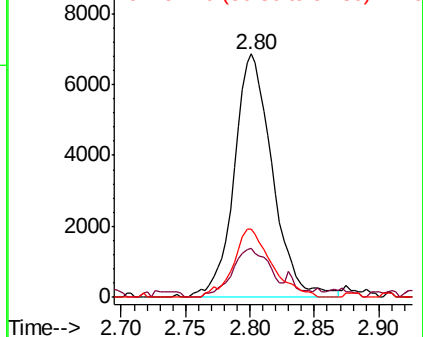
57 28.2 17.5 26.3#



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



#19

1,1-Dichloroethane

Concen: 2.771 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.01 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

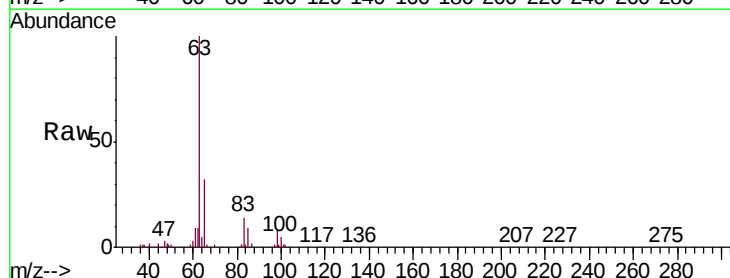
Tgt Ion: 63 Resp: 97207

Ion Ratio Lower Upper

63 100

65 32.3 22.7 42.1

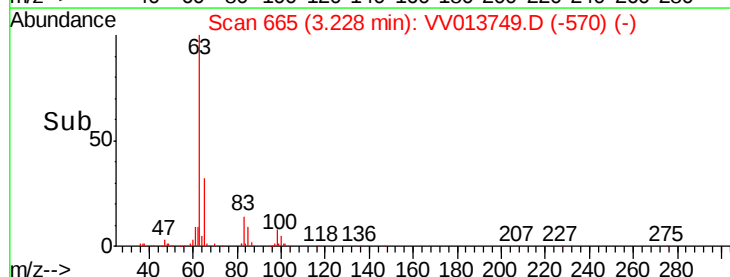
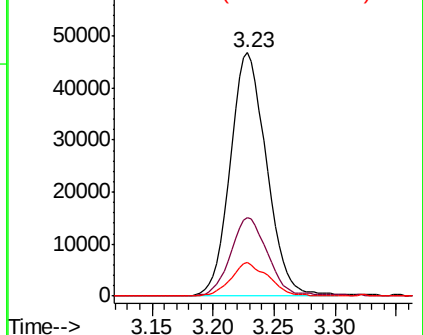
83 13.7 9.2 17.2

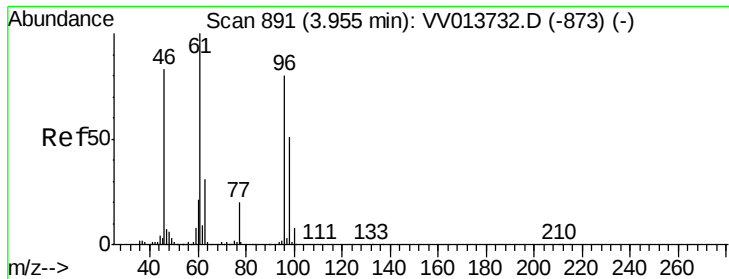


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



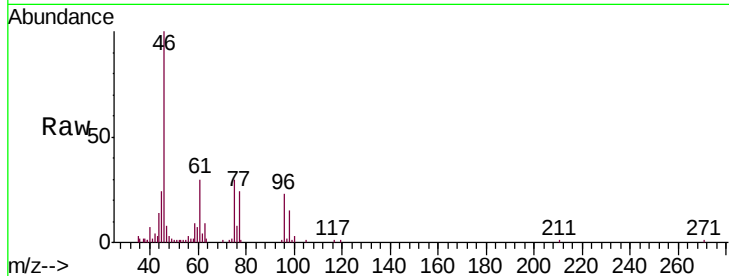


#22

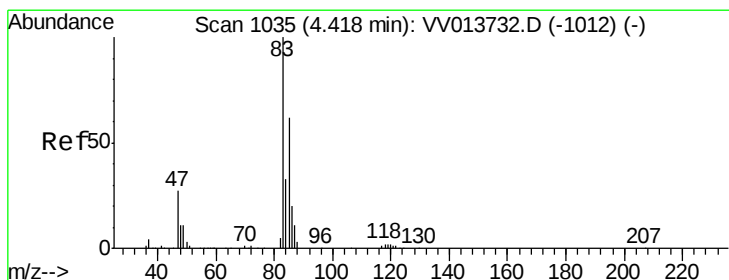
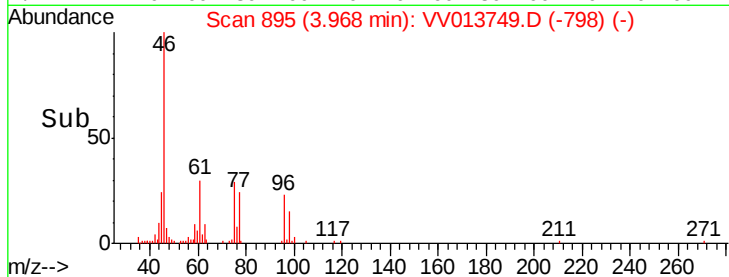
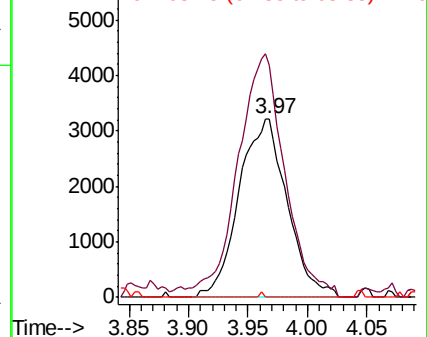
cis-1,2-Dichloroethene
 Concen: 0.437 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.01 min
 Lab File: VV013749.D
 Acq: 22 Nov 2019 21:24

Instrument :
 MSVOA_V
 ClientSampleId :
 B0AD4DL

Tgt Ion: 96 Resp: 8995
 Ion Ratio Lower Upper
 96 100
 61 130.3 86.1 159.9
 68 0.0 0.0 0.0



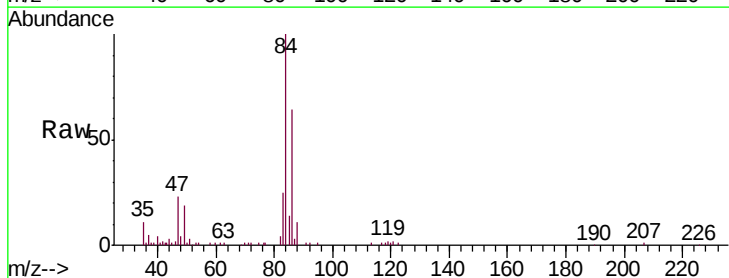
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



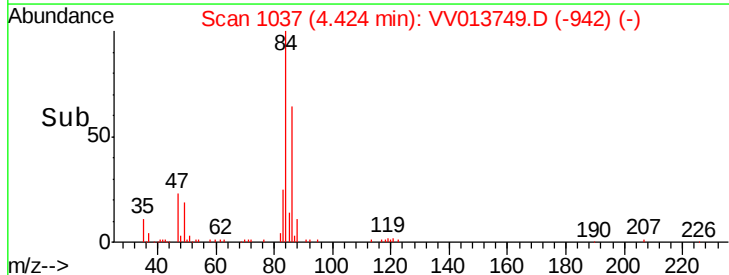
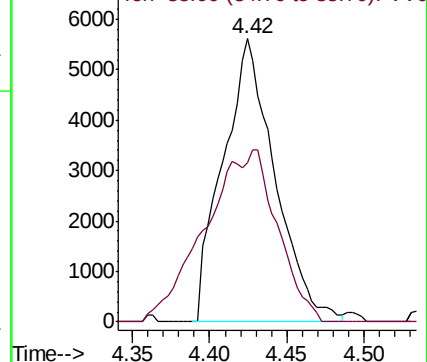
#25

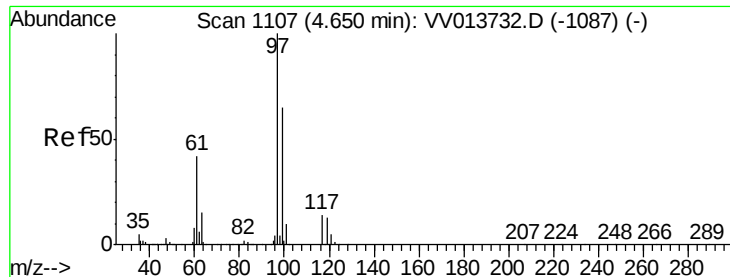
Chloroform
 Concen: 0.352 ug/L
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VV013749.D
 Acq: 22 Nov 2019 21:24

Tgt Ion: 83 Resp: 13099
 Ion Ratio Lower Upper
 83 100
 85 56.3 45.1 83.7



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





#29

1,1,1-Trichloroethane

Concen: 0.789 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

B0AD4DL

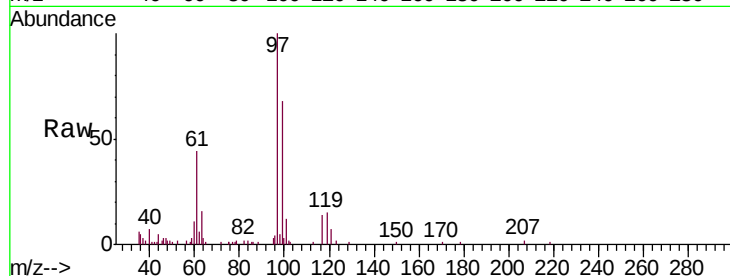
Tgt Ion: 97 Resp: 26151

Ion Ratio Lower Upper

97 100

99 66.9 51.7 77.5

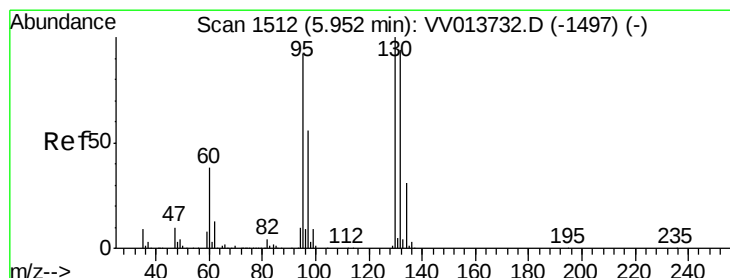
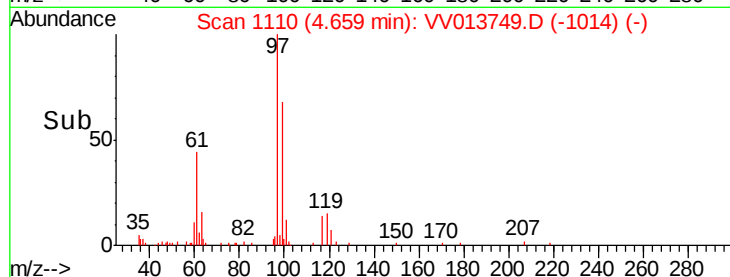
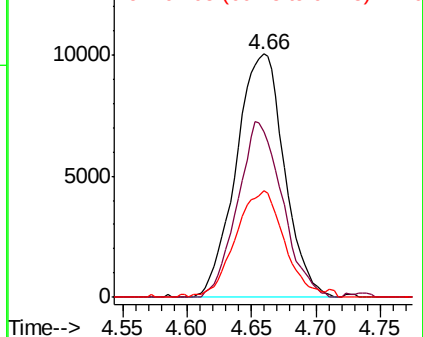
61 44.0 35.0 52.6



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#34

Trichloroethene

Concen: 9.581 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Tgt Ion: 95 Resp: 210039

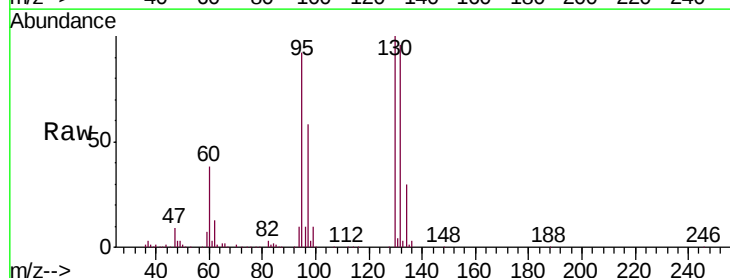
Ion Ratio Lower Upper

95 100

97 62.8 45.6 84.8

132 104.5 70.5 130.9

130 108.3 75.9 140.9

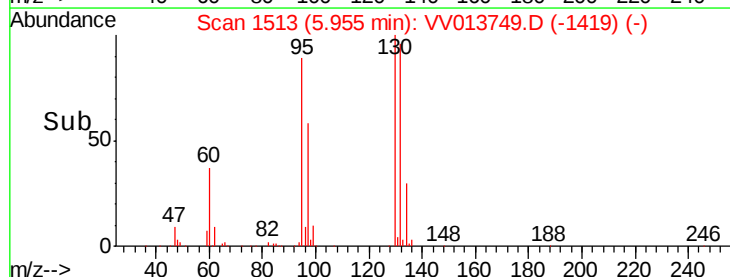
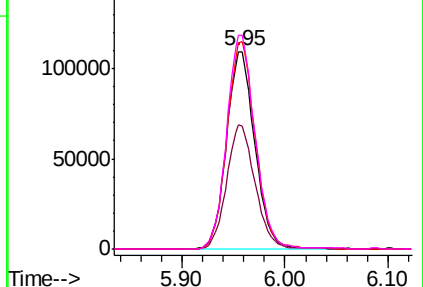


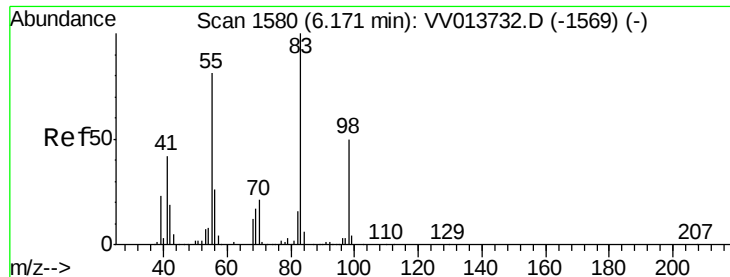
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

Methylcyclohexane

Concen: 1.155 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.06 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

B0AD4DL

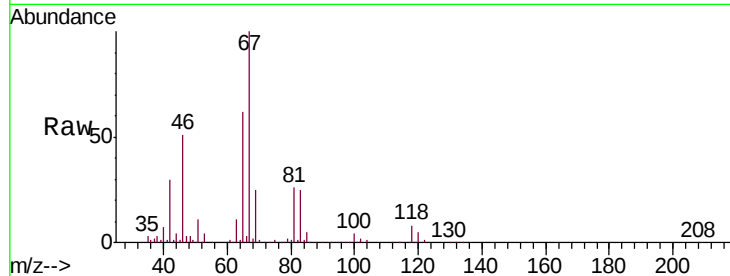
Tgt Ion: 83 Resp: 33799

Ion Ratio Lower Upper

83 100

55 0.6 60.3 90.5#

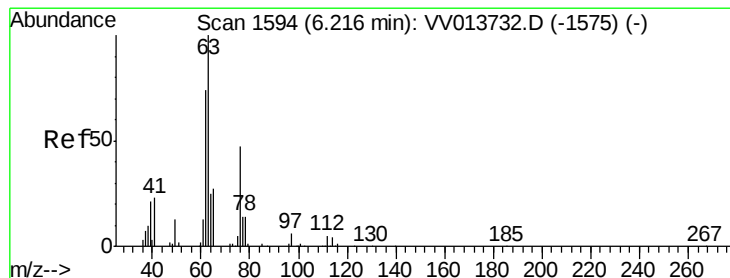
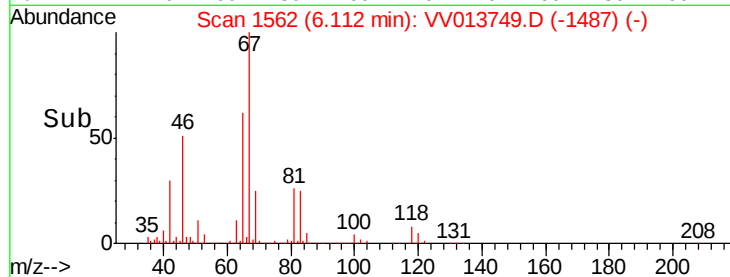
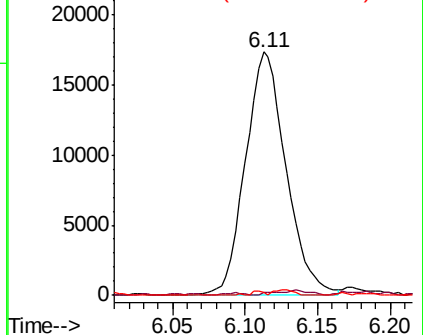
98 0.0 38.1 57.1#



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: 0.733 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.10 min

Lab File: VV013749.D

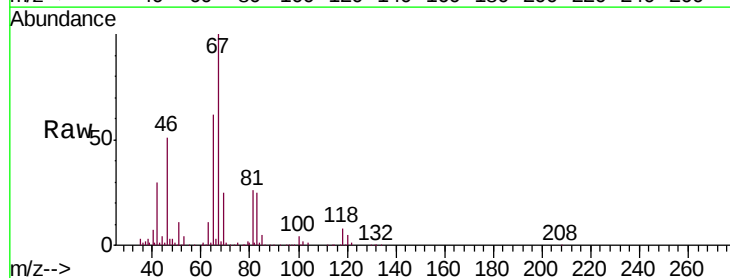
Acq: 22 Nov 2019 21:24

Tgt Ion: 63 Resp: 14971

Ion Ratio Lower Upper

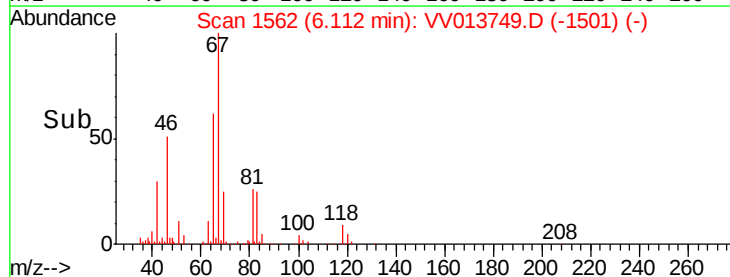
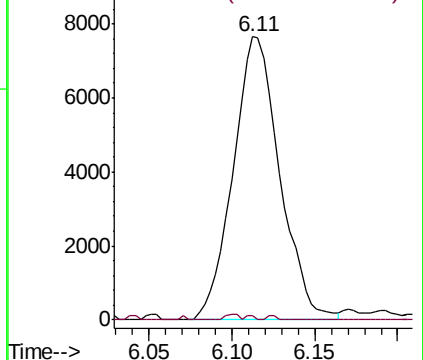
63 100

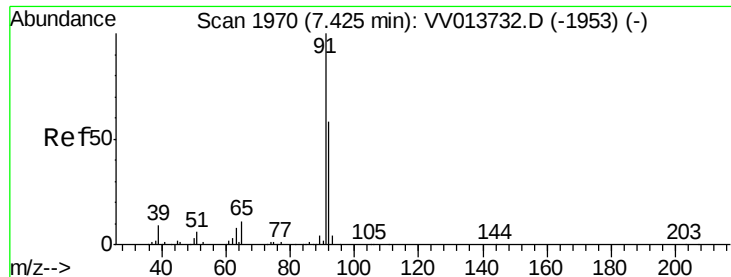
112 0.3 4.4 6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 0.113 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

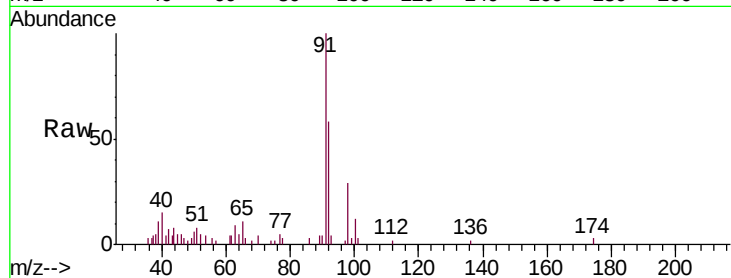
B0AD4DL

Tgt Ion: 91 Resp: 9670

Ion Ratio Lower Upper

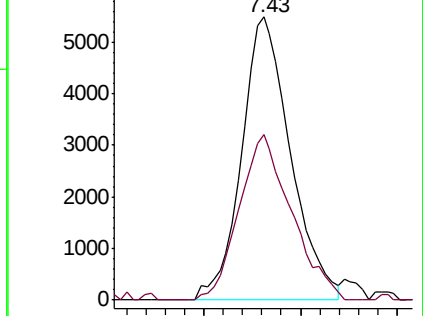
91 100

92 58.5 41.1 76.3

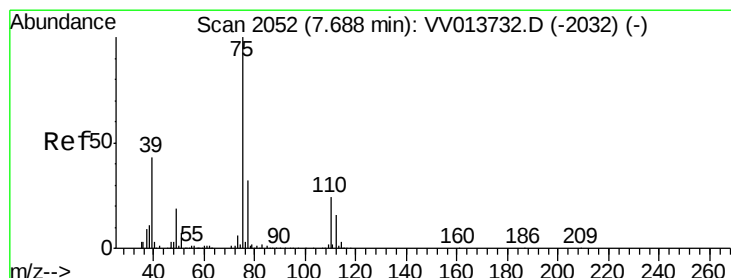
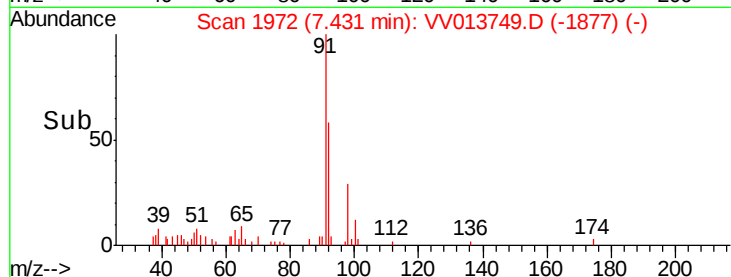


Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.100 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV013749.D

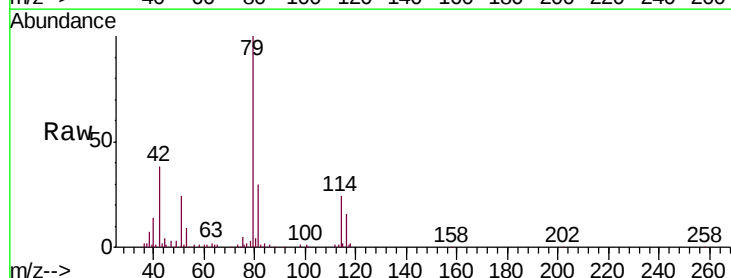
Acq: 22 Nov 2019 21:24

Tgt Ion: 75 Resp: 2269

Ion Ratio Lower Upper

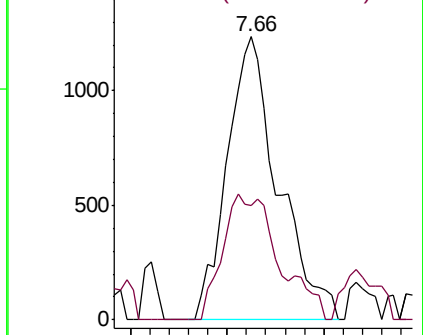
75 100

77 40.3 23.0 42.8

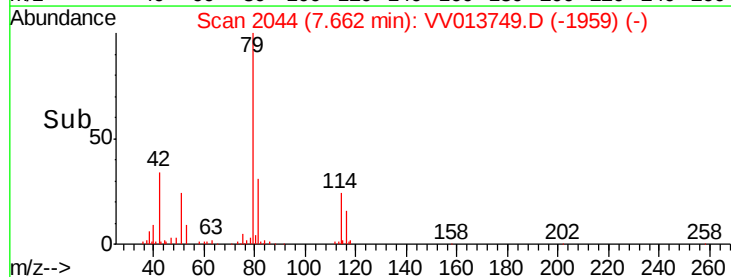


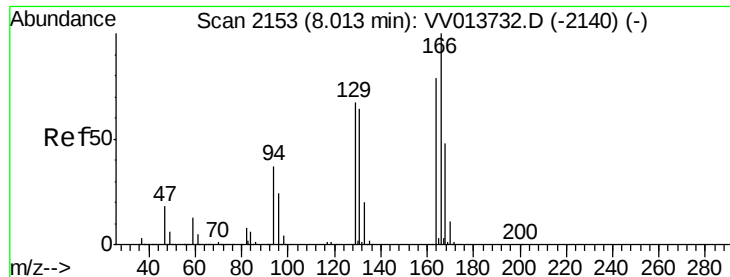
Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



Time-->





#47

Tetrachloroethene

Concen: 0.485 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

B0AD4DL

Tgt Ion:164 Resp: 9230

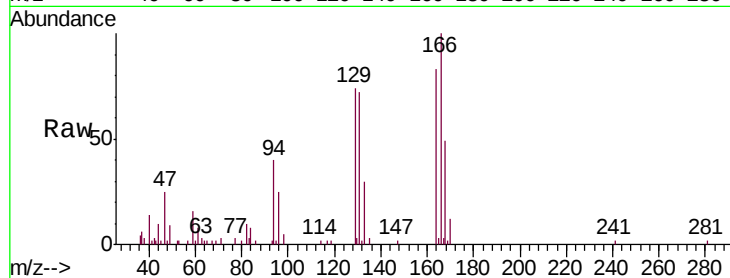
Ion Ratio Lower Upper

164 100

129 89.6 60.3 112.1

131 87.3 59.9 111.3

166 120.5 89.1 165.5

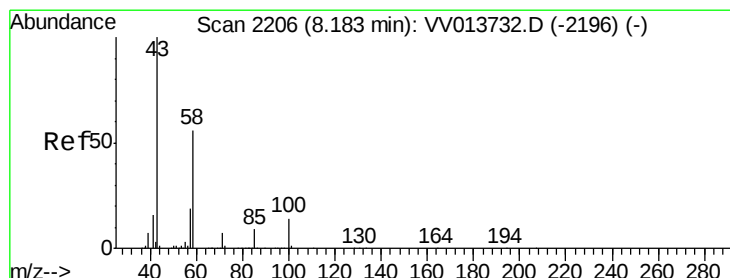
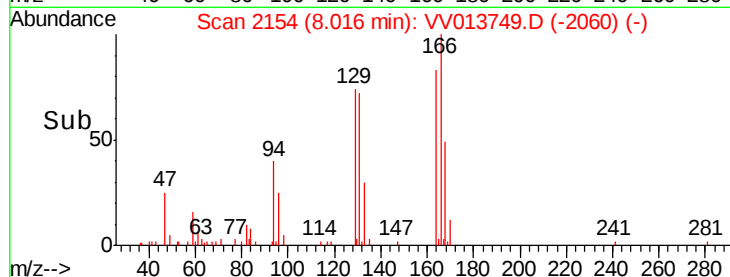
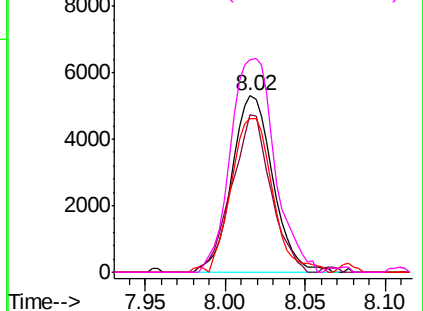


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.454 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Tgt Ion: 43 Resp: 12368

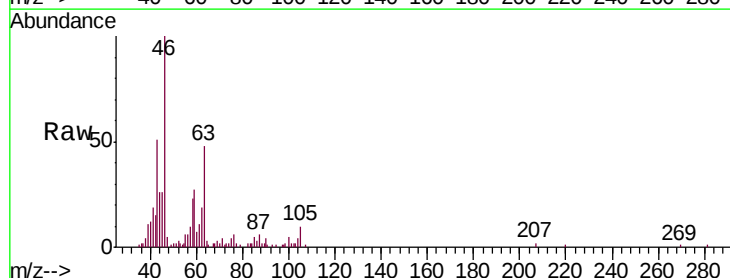
Ion Ratio Lower Upper

43 100

58 42.2 43.2 64.8#

57 7.5 15.4 23.2#

100 4.1 10.4 15.6#

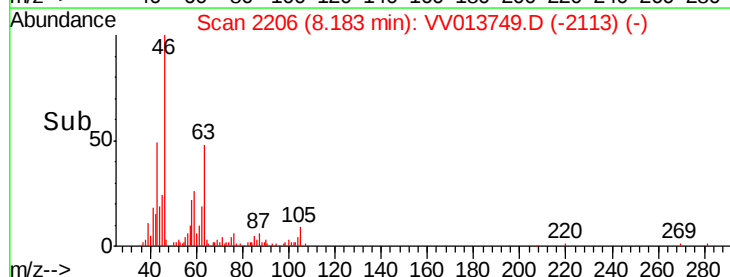
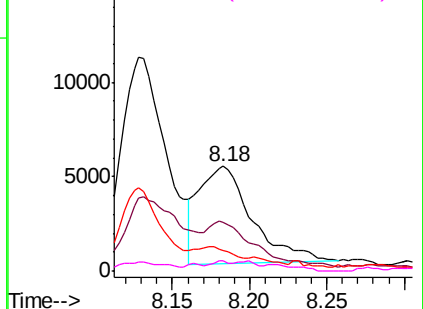


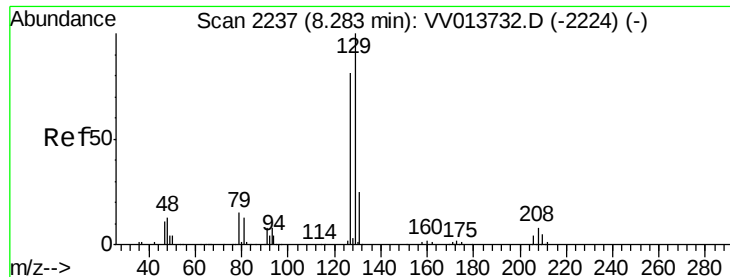
Abundance Ion 43.05 (42.75 to 43.75): VV0

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: 0.413 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

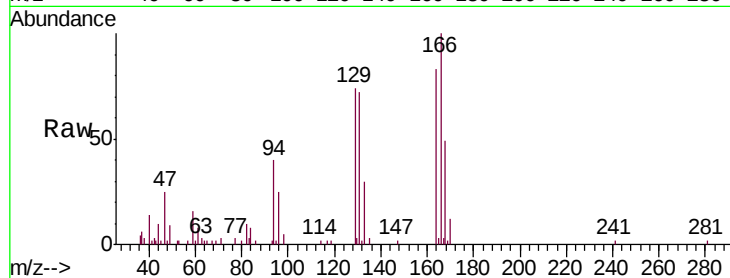
B0AD4DL

Tgt Ion:129 Resp: 7710

Ion Ratio Lower Upper

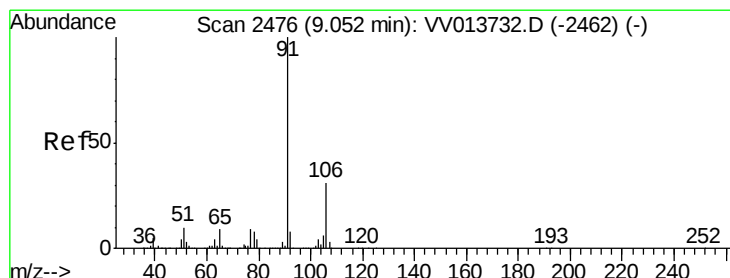
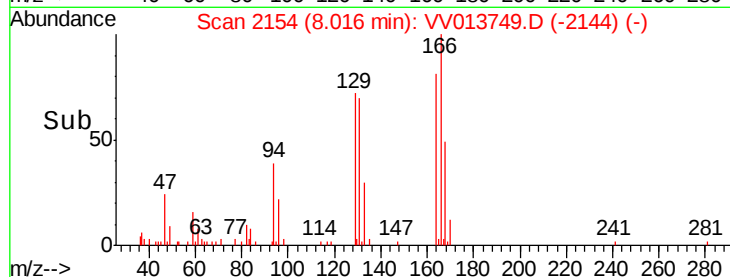
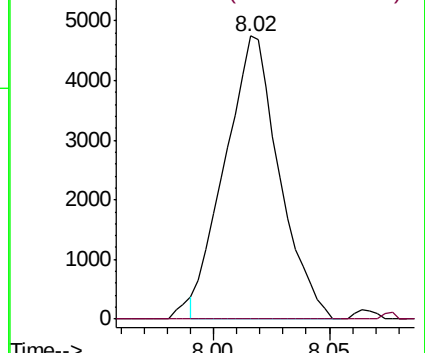
129 100

127 0.0 55.7 103.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#52

Ethylbenzene

Concen: 0.067 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013749.D

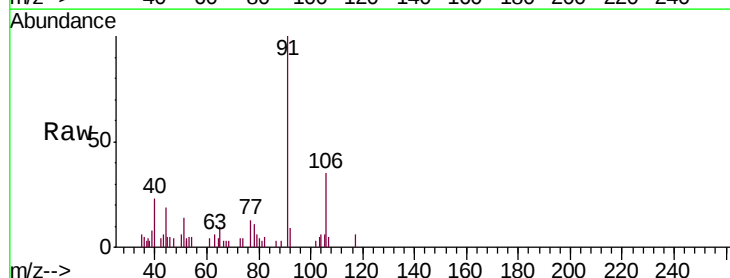
Acq: 22 Nov 2019 21:24

Tgt Ion: 91 Resp: 6231

Ion Ratio Lower Upper

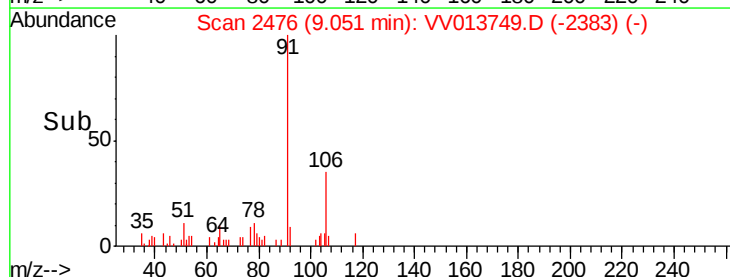
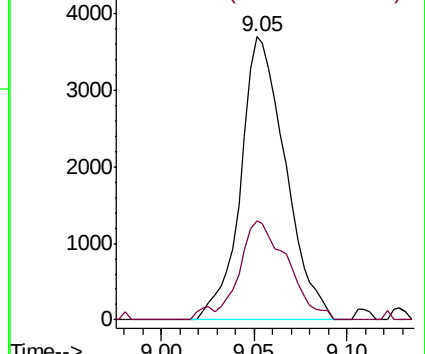
91 100

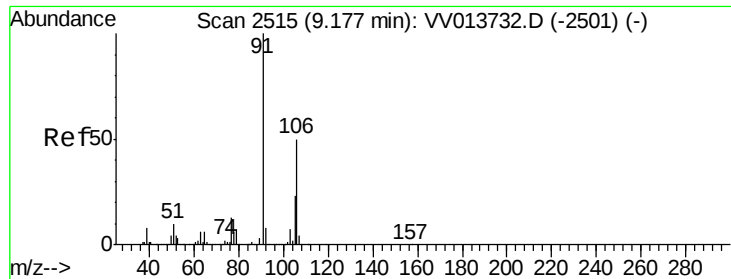
106 35.2 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-xylene

Concen: 0.070 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.01 min

Lab File: VV013749.D

Acq: 22 Nov 2019 21:24

Instrument :

MSVOA_V

ClientSampleId :

B0AD4DL

Tgt Ion:106 Resp: 2486

Ion Ratio Lower Upper

106 100

91 193.2 139.9 259.9

