

Data File : VV011976.D
Acq On : 23 Jul 2019 20:25
Operator : SY/MD
Sample : K3823-21
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A52K2

Quant Time: Jul 24 05:57:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 24 05:52:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	134919	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	127757	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	63762	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	38002	5.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.40%
7) Chloroethane-d5	1.59	69	29411	5.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.60%
11) 1,1-Dichloroethene-d2	2.14	63	87552	6.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	125.40%#
20) 2-Butanone-d5	3.94	46	108338	52.86	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.72%
24) Chloroform-d	4.40	84	89106	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
26) 1,2-Dichloroethane-d4	5.08	65	51401	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%
32) Benzene-d6	5.10	84	194880	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.40%
36) 1,2-Dichloropropane-d6	6.12	67	54459	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.36	98	172856	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.60%
43) trans-1,3-Dichloropropene-	7.67	79	20857	5.04	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.80%
46) 2-Hexanone-d5	8.13	63	88136	53.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.08%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	37838	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	68051	5.54	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.80%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	672	0.083 ug/L	92
5) Vinyl chloride	1.32	62	33634	4.059 ug/L	100
8) Chloroethane	1.60	64	2214	0.452 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	1693	0.247 ug/L #	77
12) 1,1-Dichloroethene	2.14	96	50651	8.249 ug/L	83
13) Acetone	2.19	43	3585	3.245 ug/L	97
18) trans-1,2-Dichloroethene	2.79	96	944	0.099 ug/L	82
19) 1,1-Dichloroethane	3.23	63	548761	32.491 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	139649	13.589 ug/L	99
25) Chloroform	4.43	83	10160	0.498 ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	2080953	127.262 ug/L	99
31) Carbon tetrachloride	4.66	117	257310	17.480 ug/L	98
34) Trichloroethene	5.96	95	28055	2.688 ug/L	97
35) Methylcyclohexane	6.12	83	14456	0.890 ug/L #	17
37) 1,2-Dichloropropane	6.12	63	6840	0.757 ug/L #	84
39) cis-1,3-Dichloropropene	7.03	75	1560	0.116 ug/L #	51
42) Toluene	7.43	91	8463	0.210 ug/L	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV072319\
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 24 05:52:52 2019
Response via : Initial Calibration

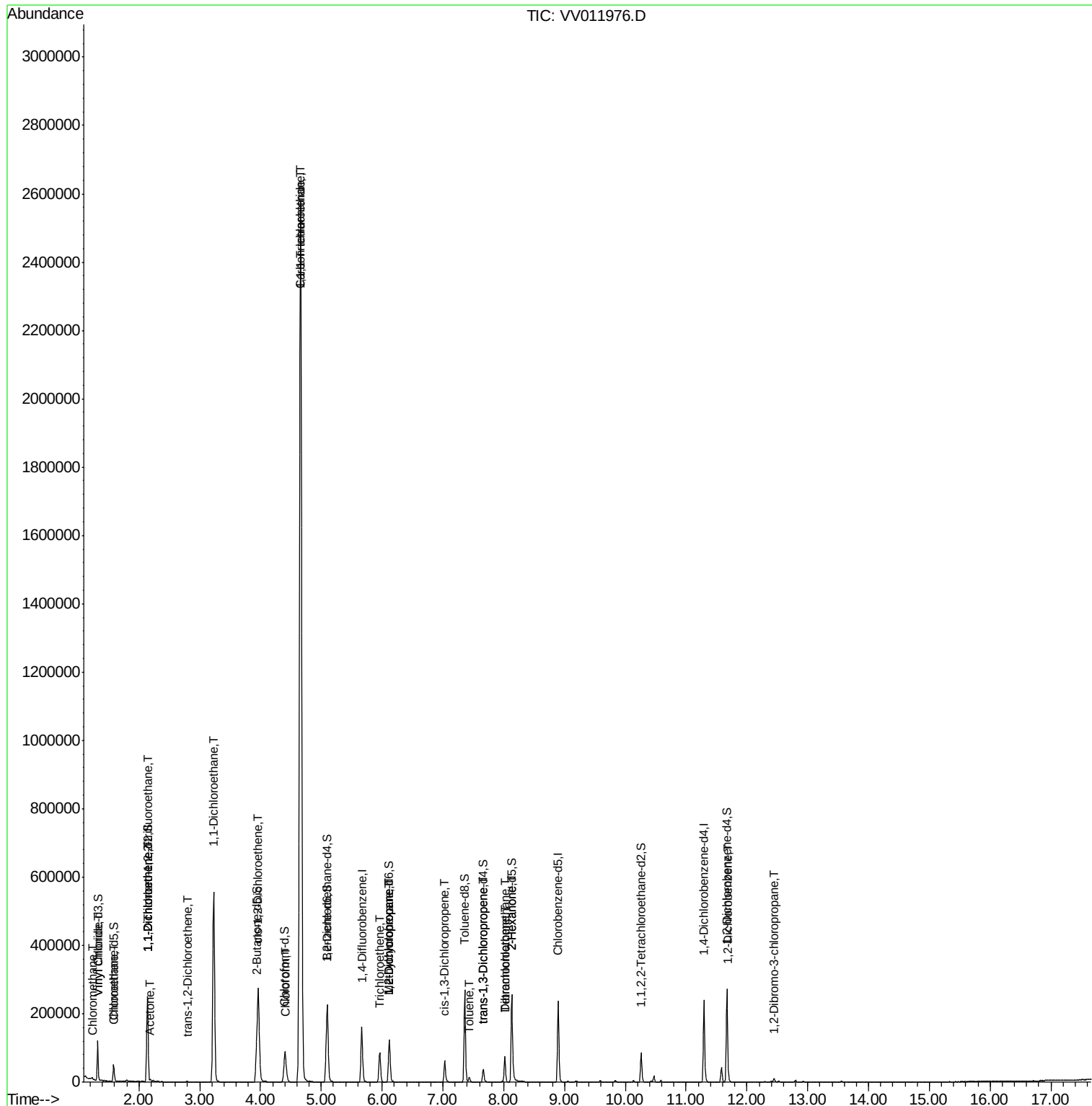
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.67	75	958	0.090	ug/L #	68
47) Tetrachloroethene	8.02	164	16388	1.820	ug/L	89
48) 2-Hexanone	8.13	43	10466	2.956	ug/L #	70
49) Dibromochloromethane	8.02	129	15449	2.022	ug/L #	10
65) 1,2-Dichlorobenzene	11.69	146	5164	0.269	ug/L #	82
66) 1,2-Dibromo-3-chloropropan	12.45	75	1786	1.601	ug/L #	1

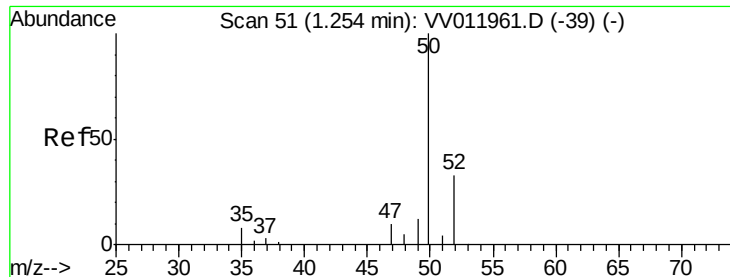
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.083 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Instrument :

MSVOA_V

ClientSampleId :

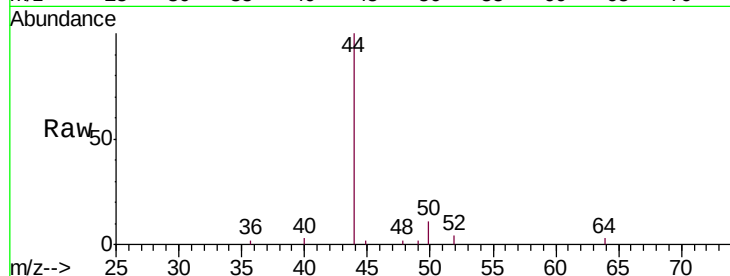
A52K2

Tgt Ion: 50 Resp: 672

Ion Ratio Lower Upper

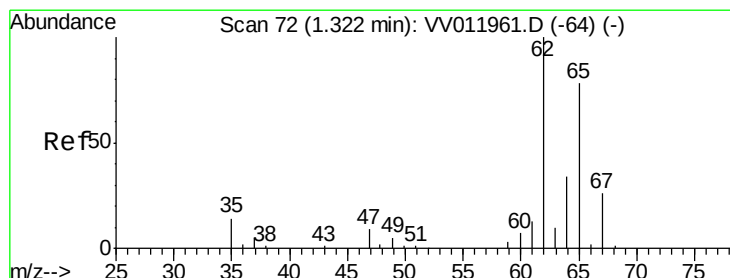
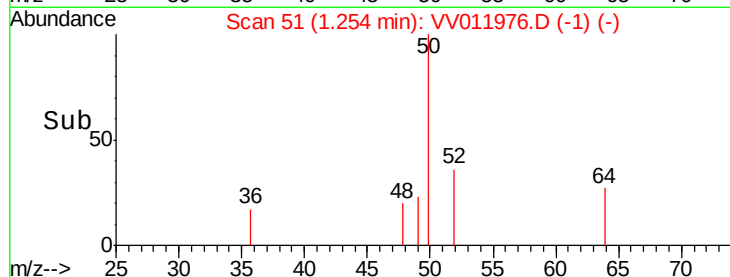
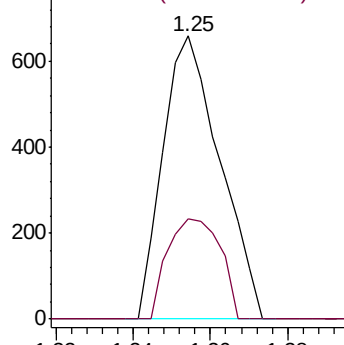
50 100

52 35.6 21.6 40.2



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 4.059 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV011976.D

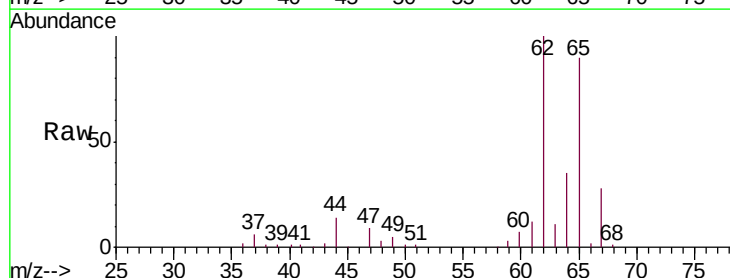
Acq: 23 Jul 2019 20:25

Tgt Ion: 62 Resp: 33634

Ion Ratio Lower Upper

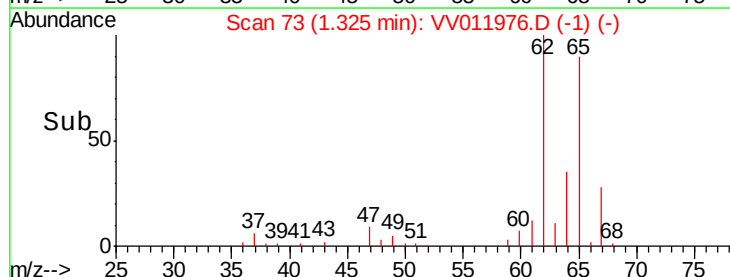
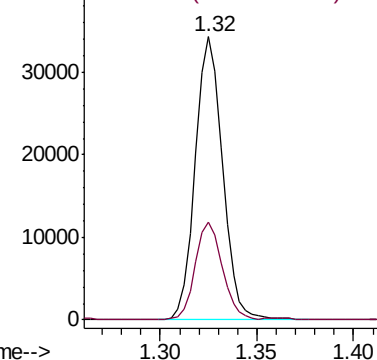
62 100

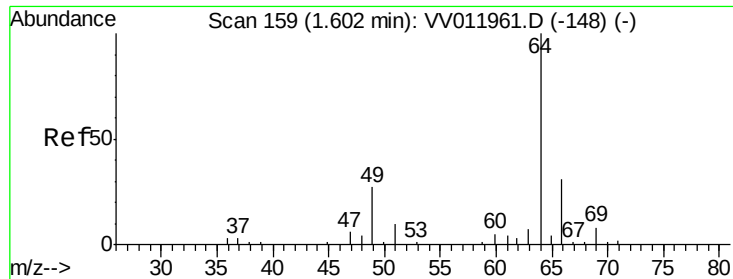
64 34.7 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 0.452 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Instrument :

MSVOA_V

ClientSampleId :

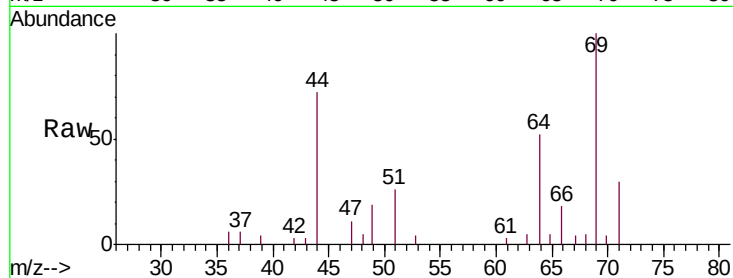
A52K2

Tgt Ion: 64 Resp: 2214

Ion Ratio Lower Upper

64 100

66 32.1 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VV011976.D (-66) (-)

Ion 66.05 (65.75 to 66.75): VV011976.D (-66) (-)

2000

1500

1000

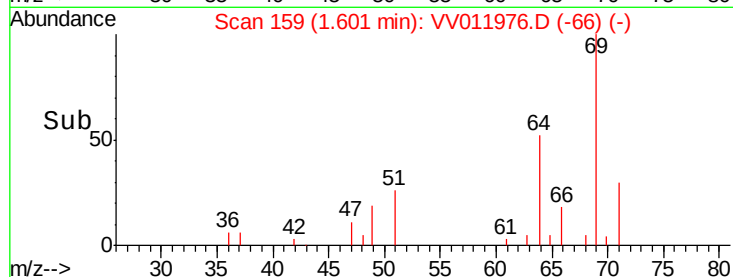
500

0

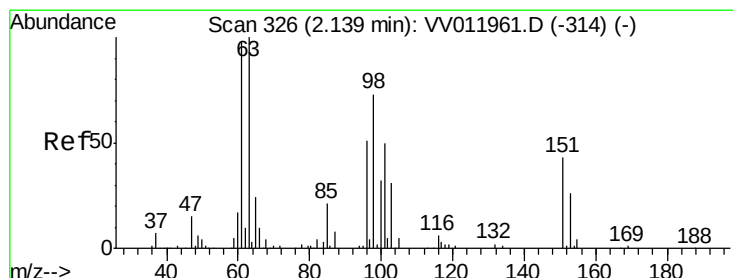
1.55

1.60

1.65



Time-->



#10

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

Concen: 0.247 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

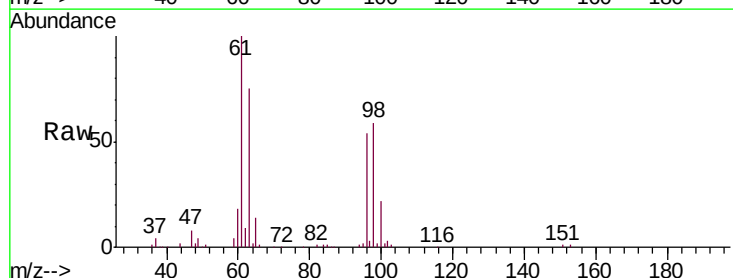
Tgt Ion: 101 Resp: 1693

Ion Ratio Lower Upper

101 100

85 38.7 37.0 55.6

151 57.9 68.3 102.5#



Abundance Ion 101.00 (100.70 to 101.70): VV011976.D (-233) (-)

Ion 85.00 (84.70 to 85.70): VV011976.D (-233) (-)

Ion 151.00 (150.70 to 151.70): VV011976.D (-233) (-)

1500

1000

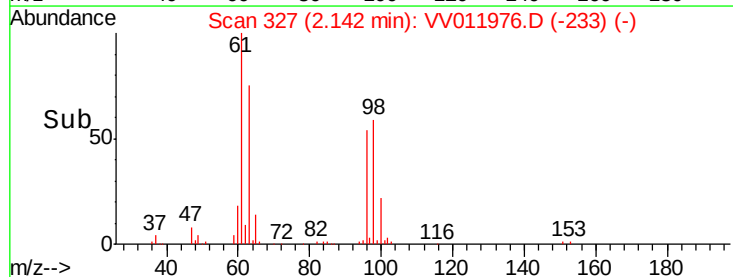
500

0

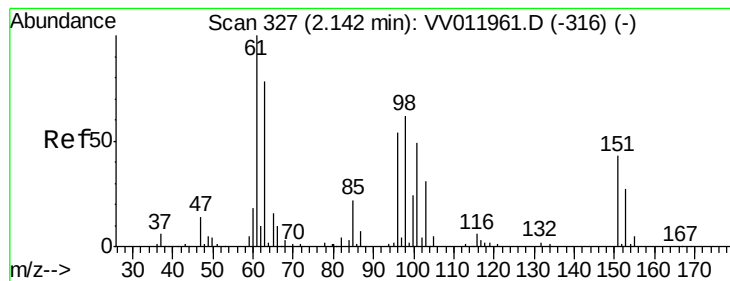
2.10

2.14

2.15



Time-->



#12

1,1-Dichloroethene

Concen: 8.249 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Instrument :

MSVOA_V

ClientSampled :

A52K2

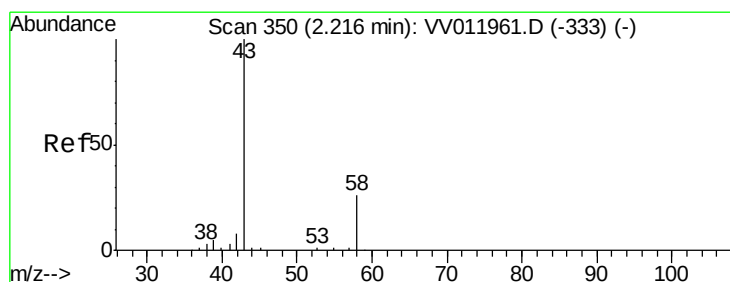
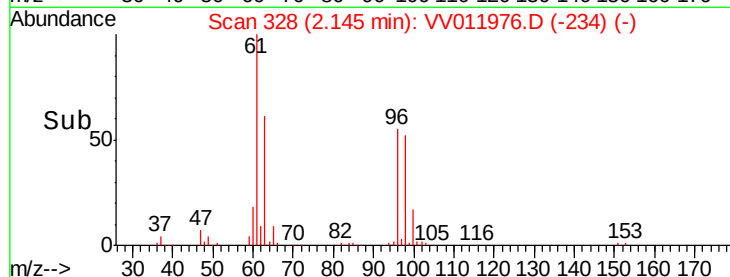
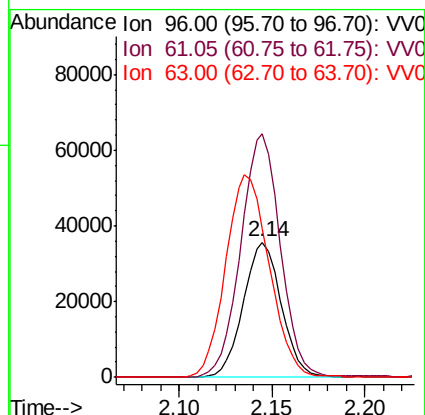
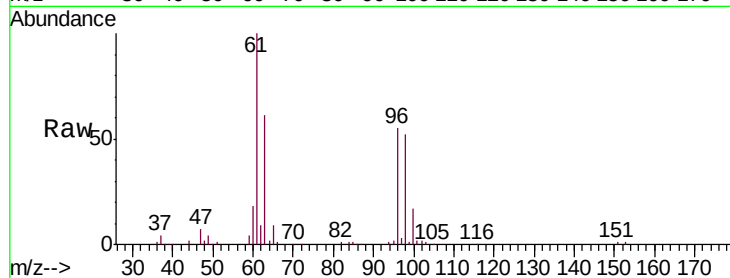
Tgt Ion: 96 Resp: 50651

Ion Ratio Lower Upper

96 100

61 180.5 132.7 246.5

63 110.6 104.0 193.1



#13

Acetone

Concen: 3.245 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.03 min

Lab File: VV011976.D

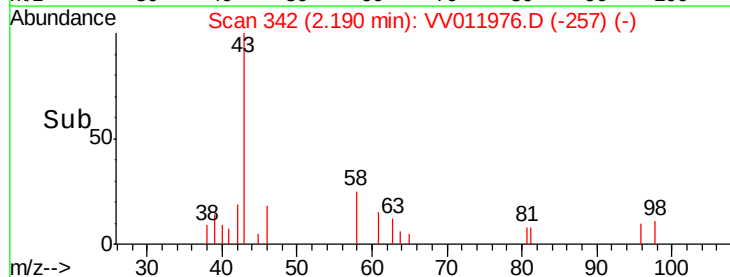
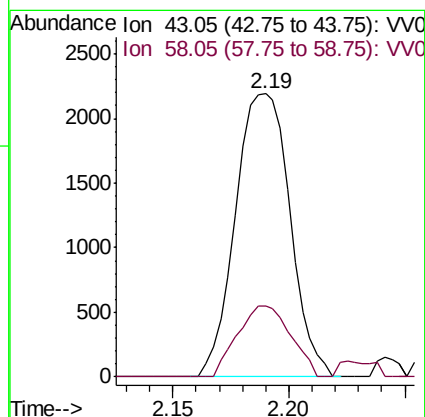
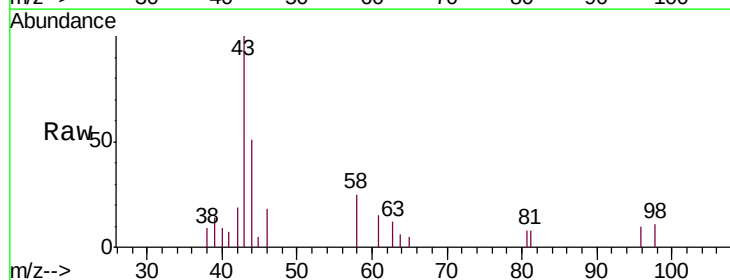
Acq: 23 Jul 2019 20:25

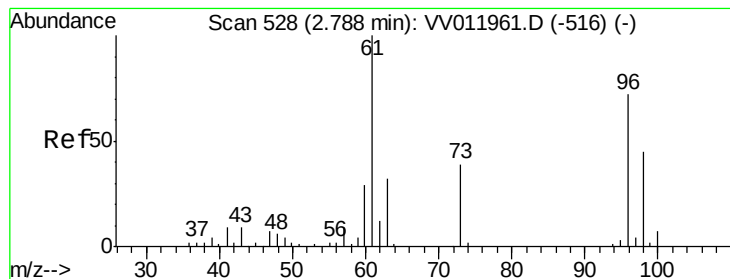
Tgt Ion: 43 Resp: 3585

Ion Ratio Lower Upper

43 100

58 24.5 0.0 51.8





#18

trans-1,2-Dichloroethene

Concen: 0.099 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Instrument :

MSVOA_V

ClientSampleId :

A52K2

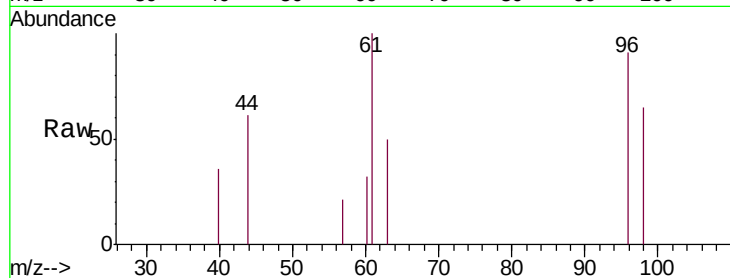
Tgt Ion: 96 Resp: 944

Ion Ratio Lower Upper

96 100

61 109.8 95.4 177.2

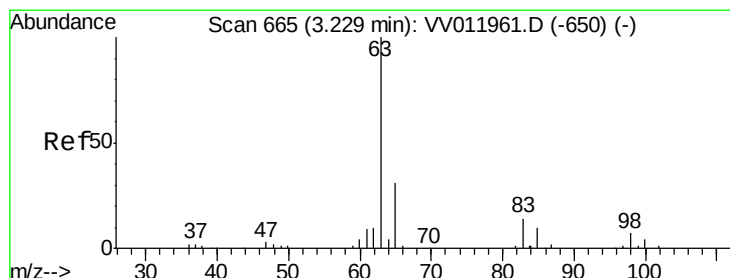
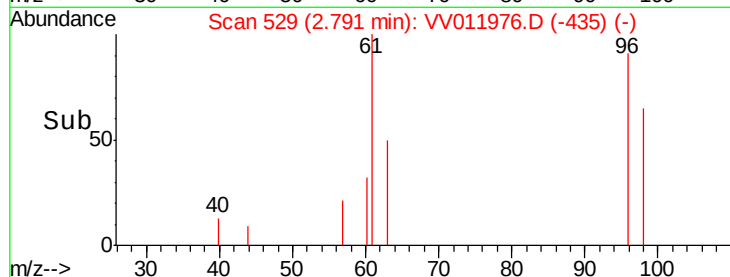
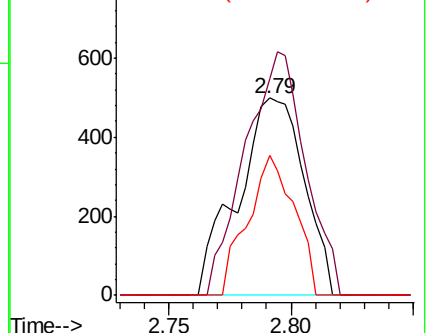
98 71.1 44.4 82.5



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: 32.491 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

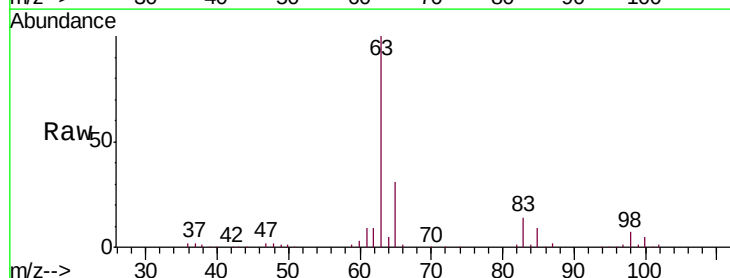
Tgt Ion: 63 Resp: 548761

Ion Ratio Lower Upper

63 100

65 31.5 23.5 43.7

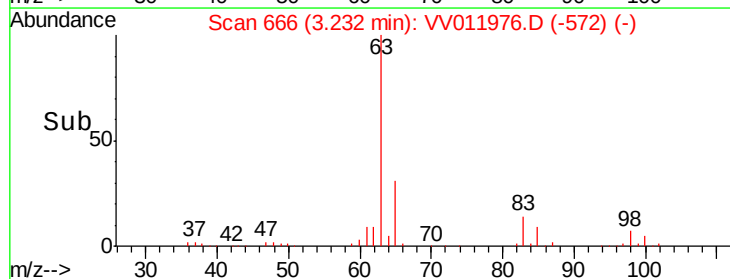
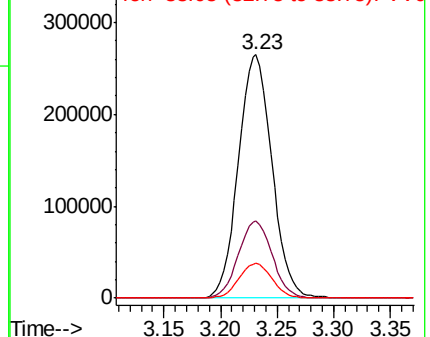
83 14.2 9.7 18.1

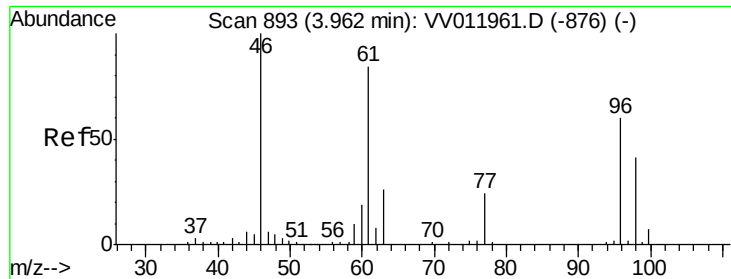


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



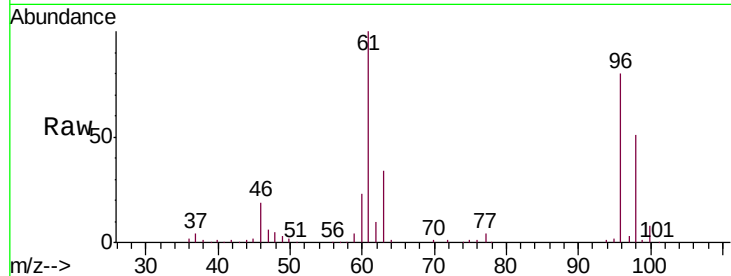


#22

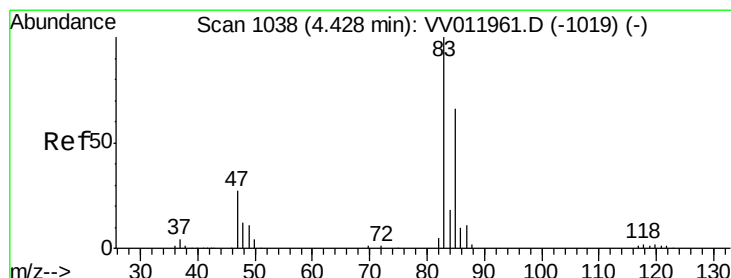
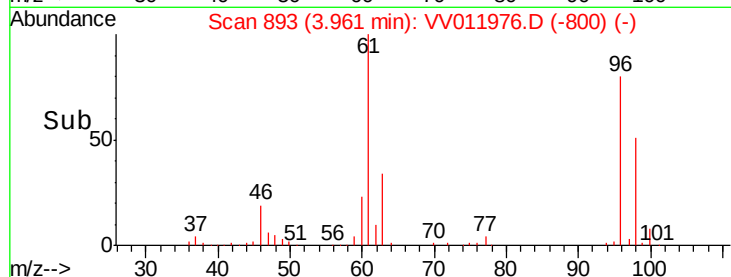
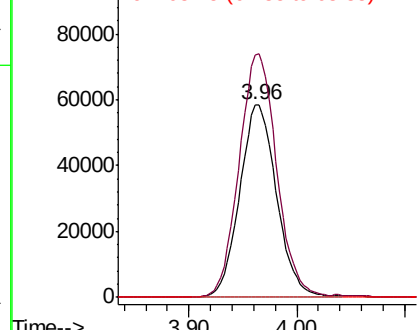
cis-1,2-Dichloroethene
 Concen: 13.589 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV011976.D
 Acq: 23 Jul 2019 20:25

Instrument :
 MSVOA_V
 ClientSampleId :
 A52K2

Tgt Ion: 96 Resp: 139649
 Ion Ratio Lower Upper
 96 100
 61 125.6 89.0 165.2
 68 0.0 0.0 0.0



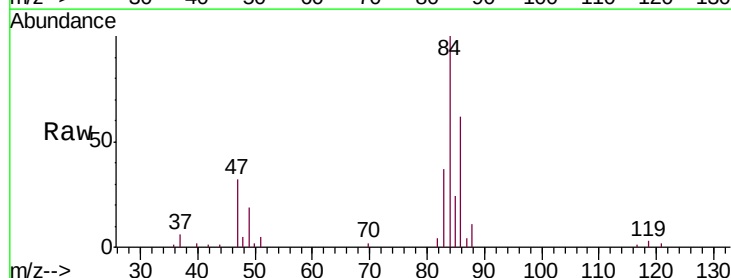
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



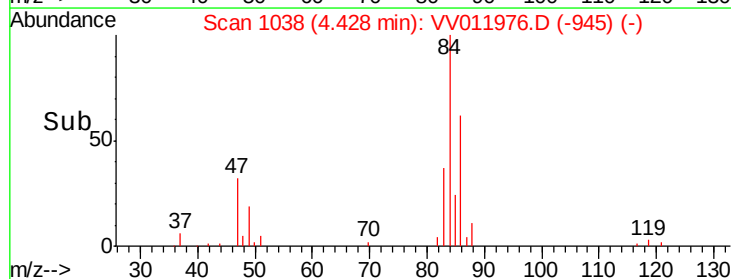
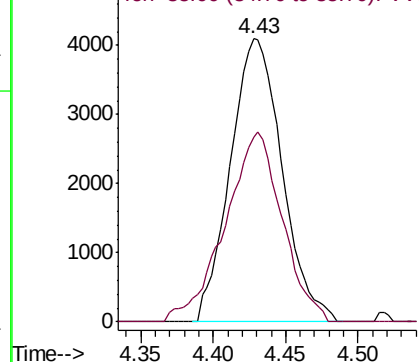
#25

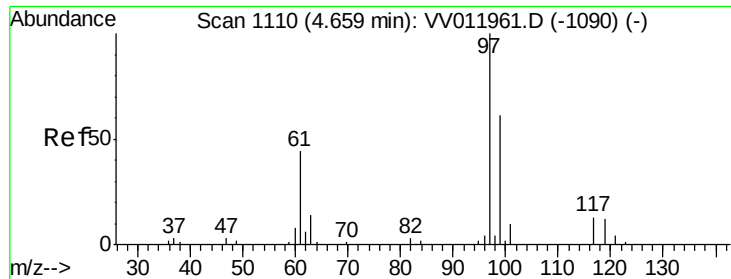
Chloroform
 Concen: 0.498 ug/L
 RT: 4.43 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: VV011976.D
 Acq: 23 Jul 2019 20:25

Tgt Ion: 83 Resp: 10160
 Ion Ratio Lower Upper
 83 100
 85 65.2 46.5 86.3



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

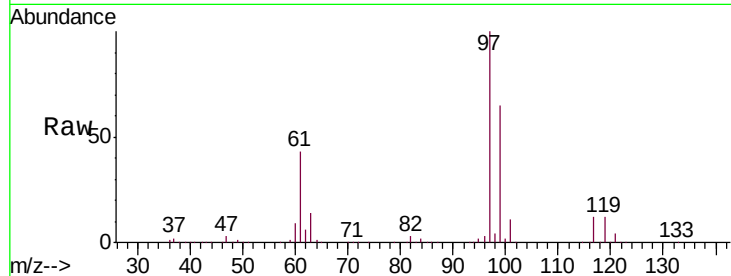




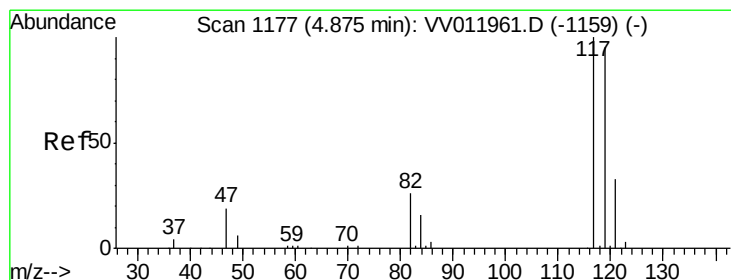
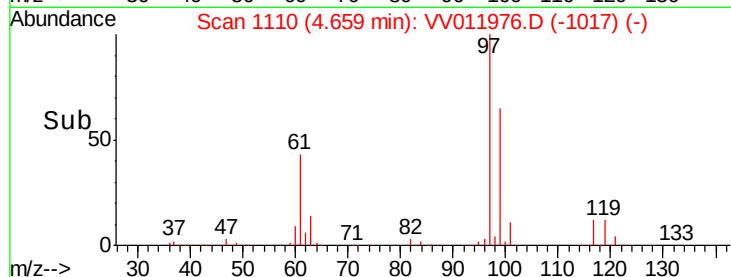
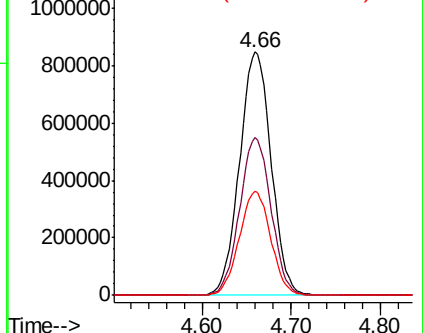
#29
 1,1,1-Trichloroethane
 Concen: 127.262 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. -0.00 min
 Lab File: VV011976.D
 Acq: 23 Jul 2019 20:25

Instrument :
 MSVOA_V
 ClientSampled :
 A52K2

Tgt Ion: 97 Resp: 2080953
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.7 77.5
 61 42.6 35.1 52.7

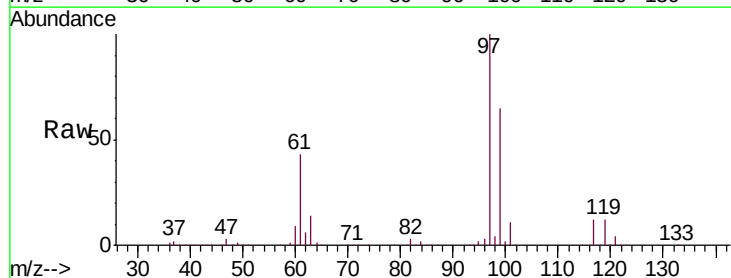


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

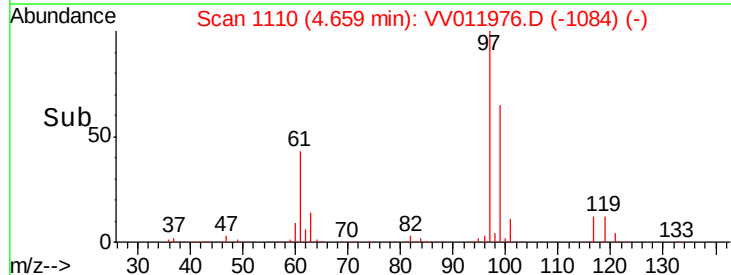
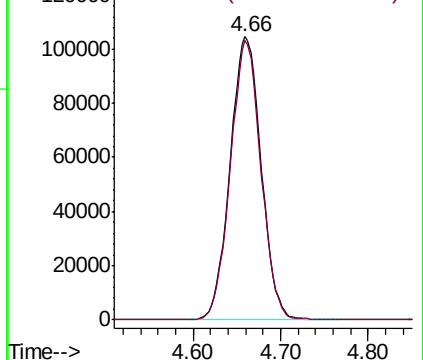


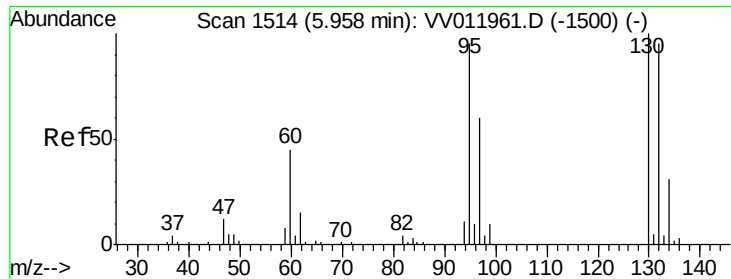
#31
 Carbon tetrachloride
 Concen: 17.480 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. -0.22 min
 Lab File: VV011976.D
 Acq: 23 Jul 2019 20:25

Tgt Ion: 117 Resp: 257310
 Ion Ratio Lower Upper
 117 100
 119 97.0 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V

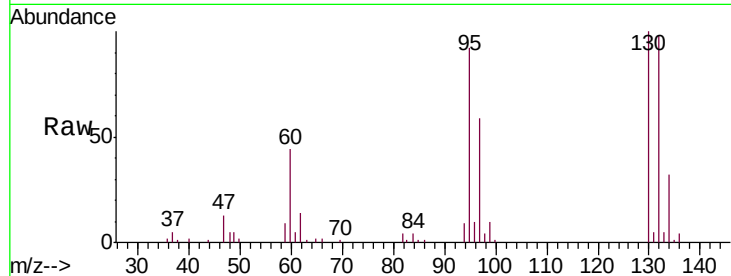




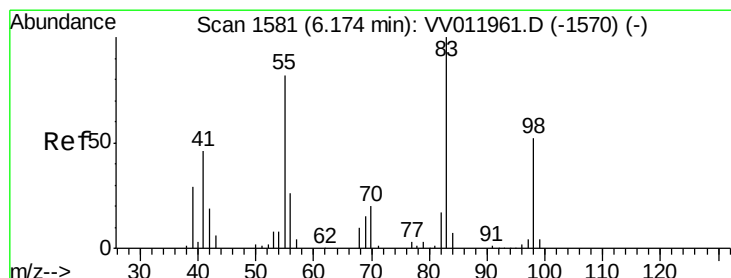
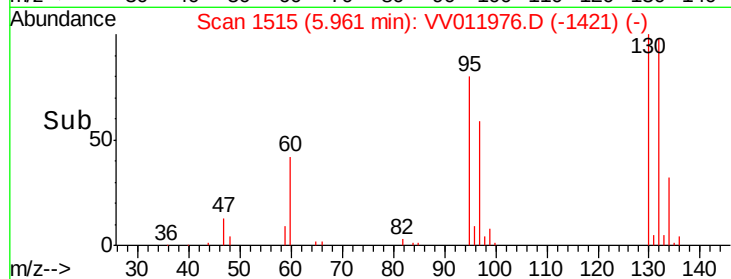
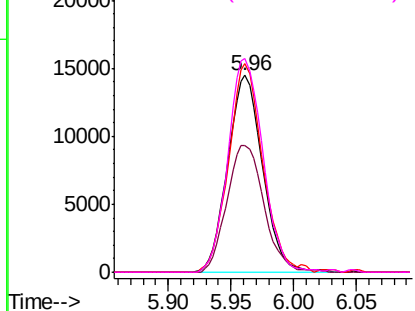
#34
 Trichloroethene
 Concen: 2.688 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV011976.D
 Acq: 23 Jul 2019 20:25

Instrument :
 MSVOA_V
 ClientSampleID :
 A52K2

Tgt Ion: 95 Resp: 28055
 Ion Ratio Lower Upper
 95 100
 97 64.2 45.6 84.6
 132 105.8 71.3 132.3
 130 108.4 72.8 135.2

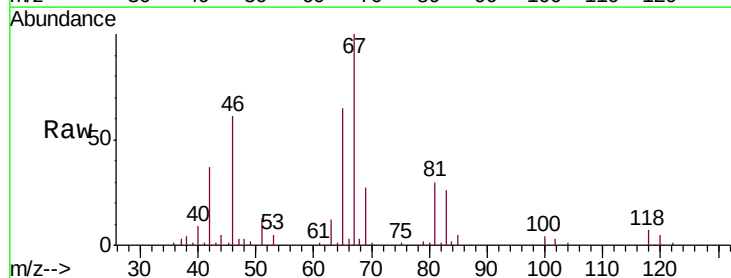


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

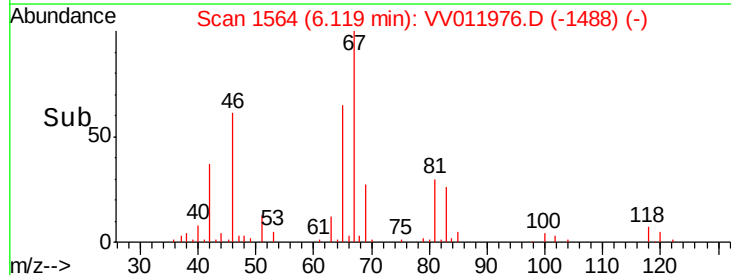
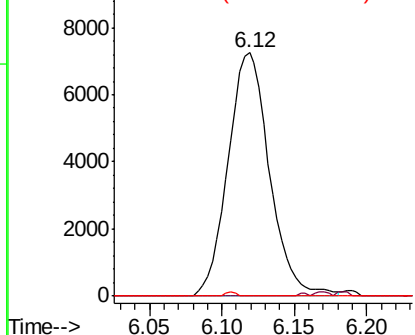


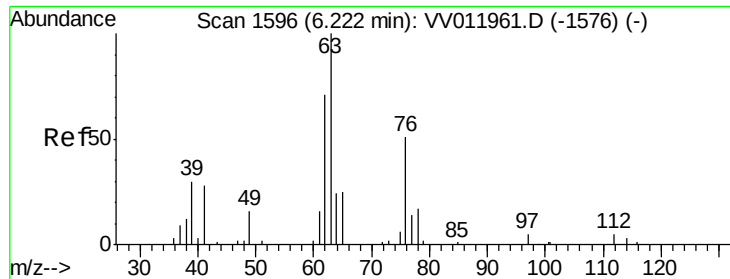
#35
 Methylcyclohexane
 Concen: 0.890 ug/L
 RT: 6.12 min Scan# 1564
 Delta R.T. -0.05 min
 Lab File: VV011976.D
 Acq: 23 Jul 2019 20:25

Tgt Ion: 83 Resp: 14456
 Ion Ratio Lower Upper
 83 100
 55 0.3 63.0 94.4#
 98 0.4 41.4 62.0#



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

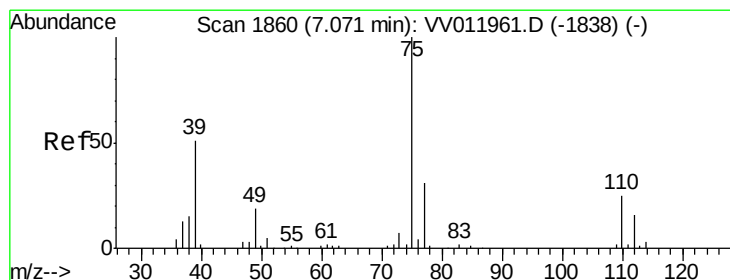
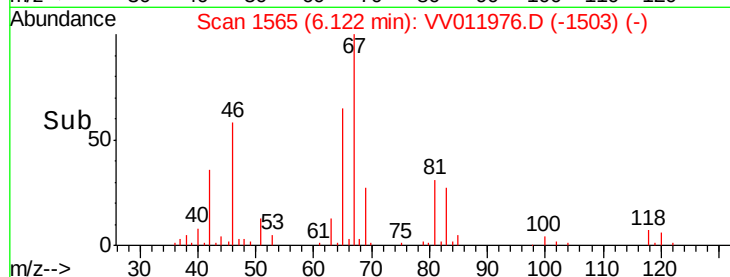
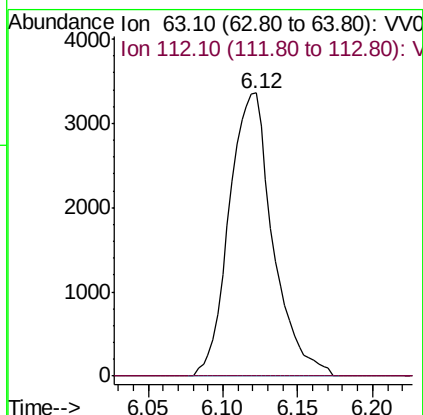
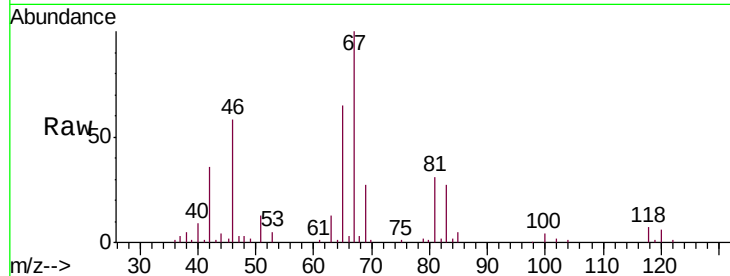




#37
 1,2-Dichloropropane
 Concen: 0.757 ug/L
 RT: 6.12 min Scan# 1565
 Delta R.T. -0.10 min
 Lab File: VV011976.D
 Acq: 23 Jul 2019 20:25

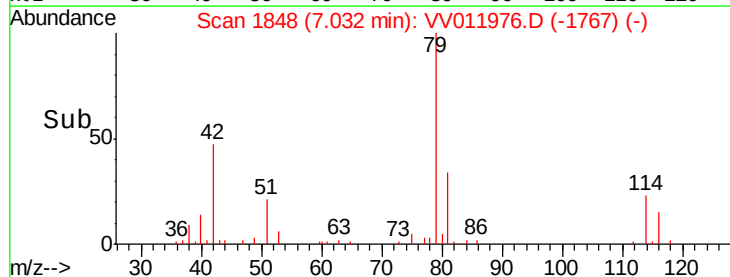
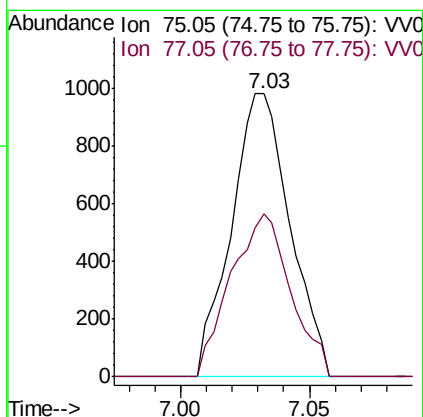
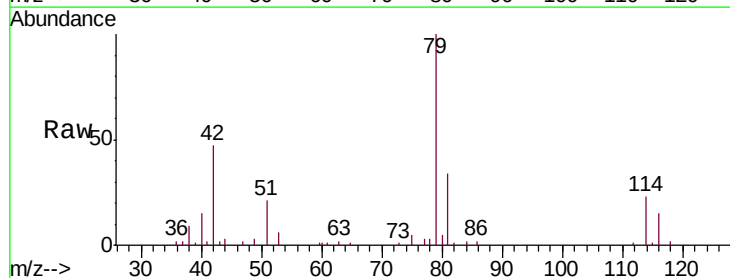
Instrument :
 MSVOA_V
 ClientSampleId :
 A52K2

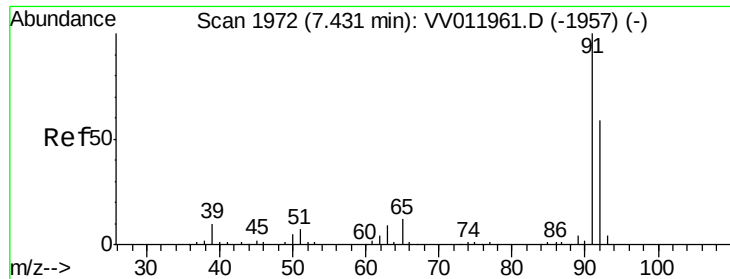
Tgt Ion: 63 Resp: 6840
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.2 6.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.116 ug/L
 RT: 7.03 min Scan# 1848
 Delta R.T. -0.04 min
 Lab File: VV011976.D
 Acq: 23 Jul 2019 20:25

Tgt Ion: 75 Resp: 1560
 Ion Ratio Lower Upper
 75 100
 77 57.4 21.3 39.6#





#42

Toluene

Concen: 0.210 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Instrument :

MSVOA_V

ClientSampled :

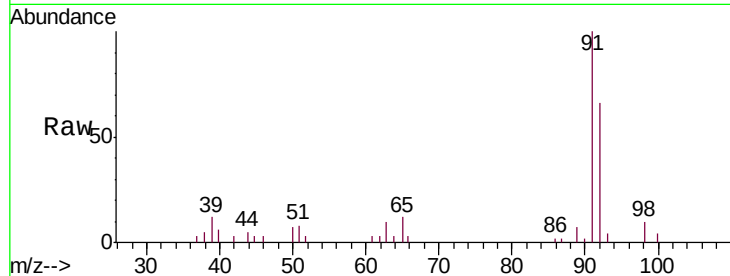
A52K2

Tgt Ion: 91 Resp: 8463

Ion Ratio Lower Upper

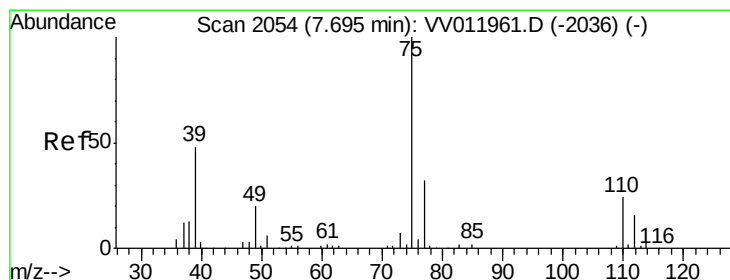
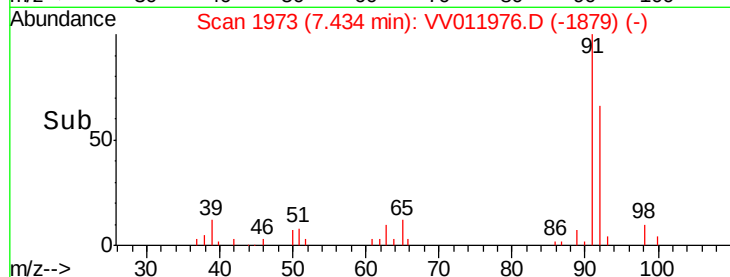
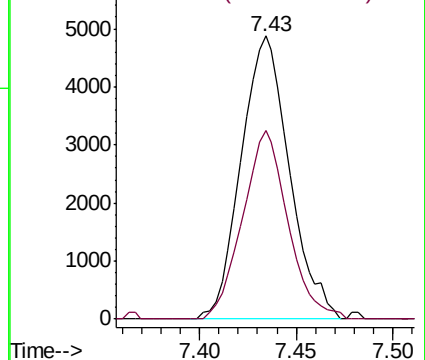
91 100

92 66.5 41.9 77.9



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV011976.D

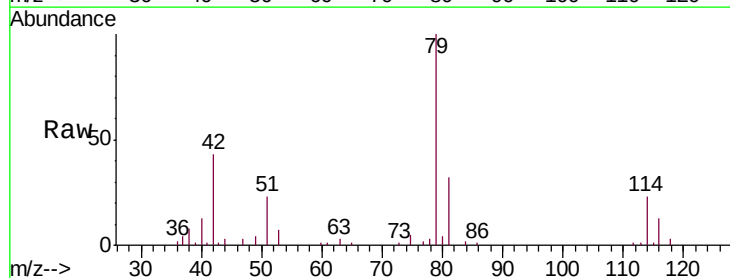
Acq: 23 Jul 2019 20:25

Tgt Ion: 75 Resp: 958

Ion Ratio Lower Upper

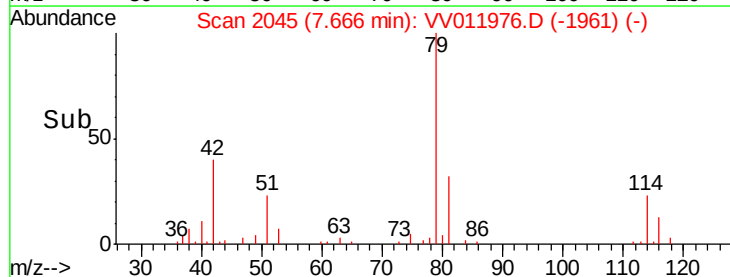
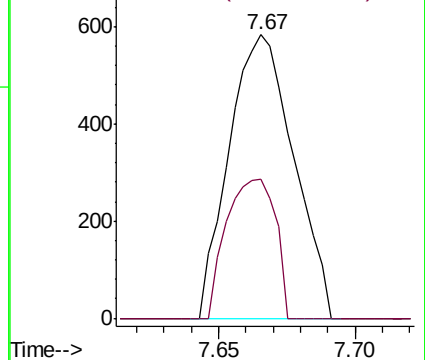
75 100

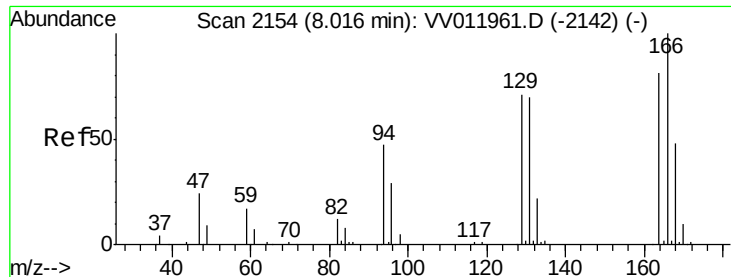
77 49.1 22.0 40.8#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





#47

Tetrachloroethene

Concen: 1.820 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Instrument :

MSVOA_V

ClientSampleId :

A52K2

Tgt Ion:164 Resp: 16388

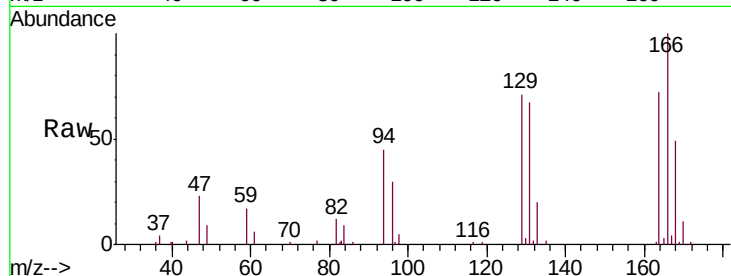
Ion Ratio Lower Upper

164 100

129 99.3 62.5 116.1

131 93.1 58.6 108.8

166 139.7 88.2 163.8

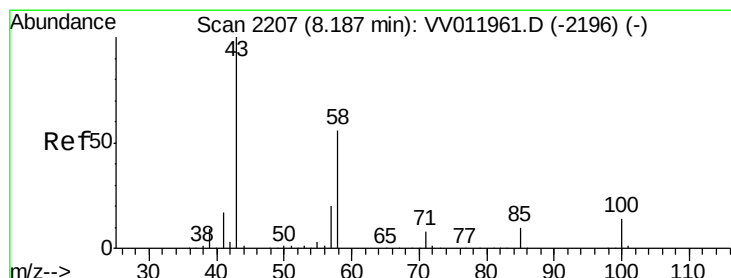
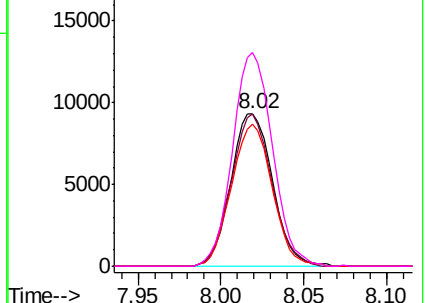
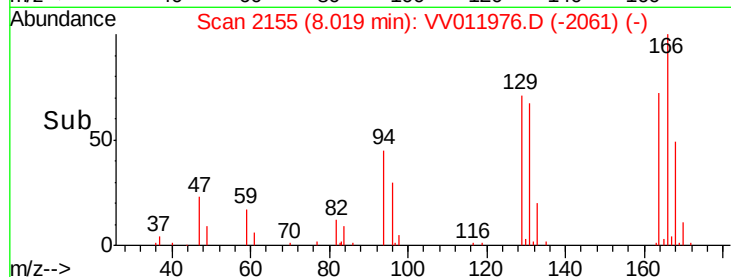


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.956 ug/L

RT: 8.13 min Scan# 2190

Delta R.T. -0.05 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Tgt Ion: 43 Resp: 10466

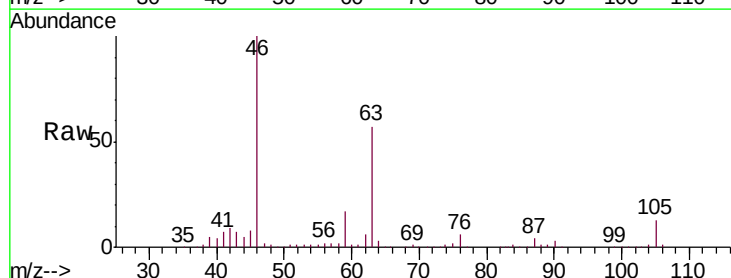
Ion Ratio Lower Upper

43 100

58 30.6 43.7 65.5#

57 30.0 16.0 24.0#

100 1.2 10.5 15.7#

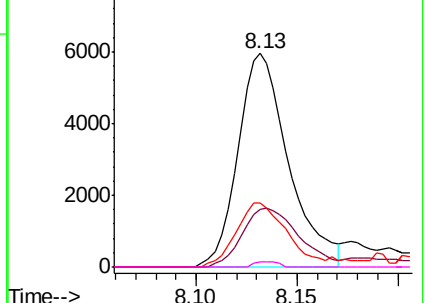
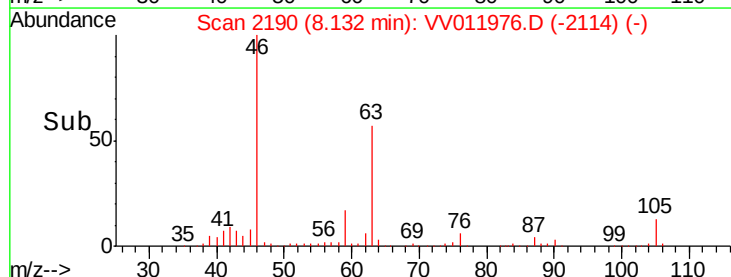


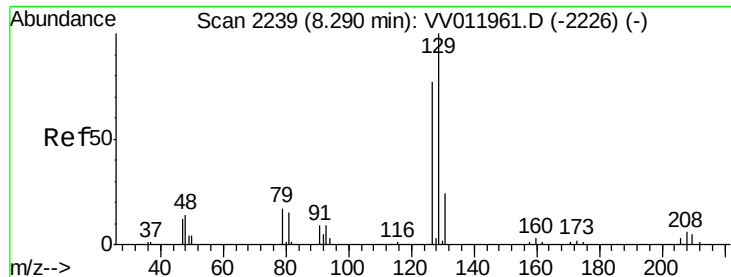
Abundance Ion 43.05 (42.75 to 43.75): VV0

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: 2.022 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.27 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Instrument :

MSVOA_V

ClientSampled :

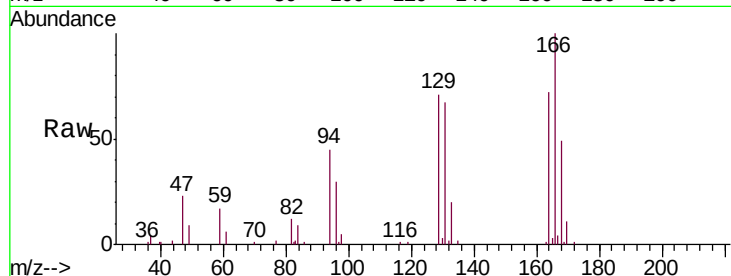
A52K2

Tgt Ion:129 Resp: 15449

Ion Ratio Lower Upper

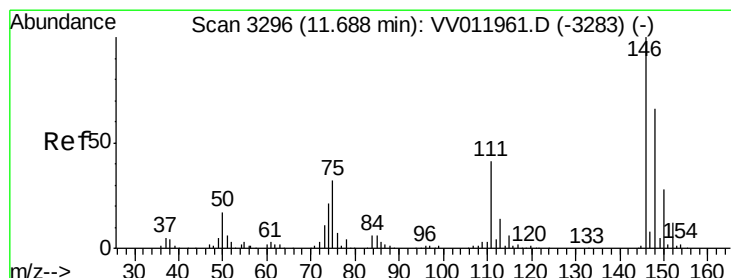
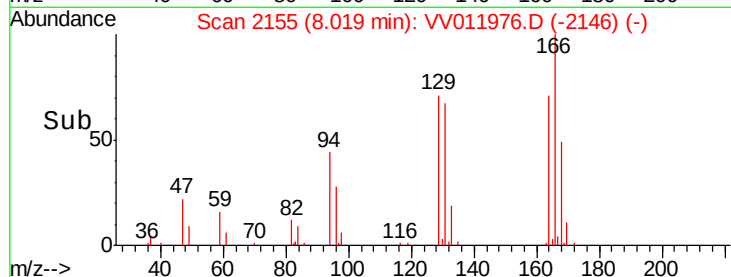
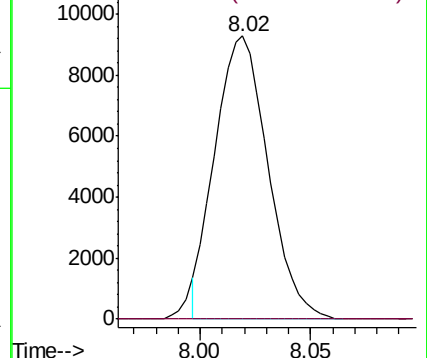
129 100

127 0.0 55.3 102.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#65

1,2-Dichlorobenzene

Concen: 0.269 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

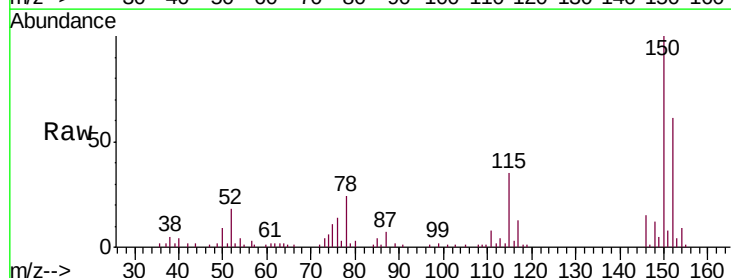
Tgt Ion:146 Resp: 5164

Ion Ratio Lower Upper

146 100

111 55.0 32.5 48.7#

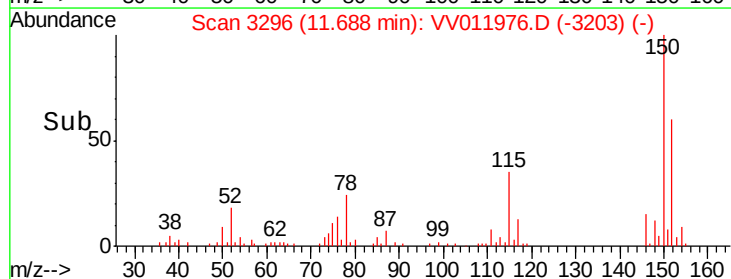
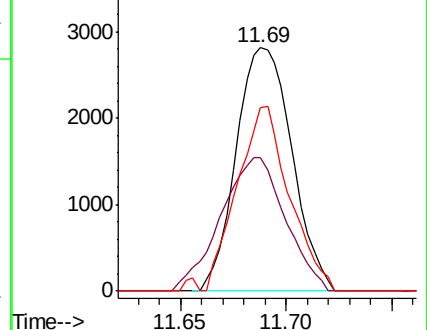
148 75.2 51.4 77.0

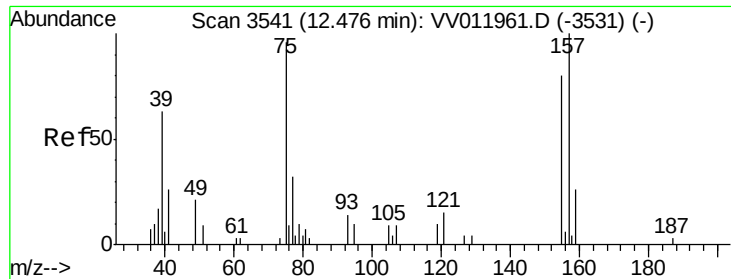


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dibromo-3-chloropropane

Concen: 1.601 ug/L

RT: 12.45 min Scan# 3532

Delta R.T. -0.03 min

Lab File: VV011976.D

Acq: 23 Jul 2019 20:25

Instrument :

MSVOA_V

ClientSampleId :

A52K2

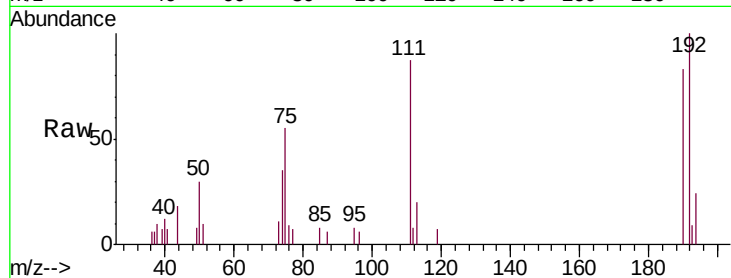
Tgt Ion: 75 Resp: 1786

Ion Ratio Lower Upper

75 100

155 0.0 69.5 104.3#

157 0.0 96.2 144.2#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

