

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112219\
 Data File : VV013751.D
 Acq On : 22 Nov 2019 22:12
 Operator : SY/MD
 Sample : K5941-17
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 B0AD1

Quant Time: Nov 23 04:04:38 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	327123	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	317006	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	143968	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	102848	5.08	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.60%
7) Chloroethane-d5	1.58	69	96498	5.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	112.20%
11) 1,1-Dichloroethene-d2	2.14	63	533444	15.65	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	313.00%#
20) 2-Butanone-d5	3.93	46	252966	60.10	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.20%
24) Chloroform-d	4.40	84	222112	5.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.80%
26) 1,2-Dichloroethane-d4	5.08	65	113325	5.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	116.60%
32) Benzene-d6	5.10	84	426883	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.40%
36) 1,2-Dichloropropane-d6	6.11	67	132958	5.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.20%
41) Toluene-d8	7.36	98	373764	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
43) trans-1,3-Dichloropropene-	7.66	79	40103	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.13	63	192698	55.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.14%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	101609	6.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	120.20%#
64) 1,2-Dichlorobenzene-d4	11.67	152	157948	6.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	124.20%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	51915	2.656	ug/L #	1
12) 1,1-Dichloroethene	2.14	96	763484	48.544	ug/L #	66
14) Carbon disulfide	2.32	76	6656	0.183	ug/L #	87
16) Methylene chloride	2.54	84	3742	0.174	ug/L #	82
17) Methyl tert-butyl Ether	2.80	73	20575	0.478	ug/L	93
18) trans-1,2-Dichloroethene	2.79	96	2171	0.122	ug/L	80
19) 1,1-Dichloroethane	3.23	63	835779	23.573	ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	35617	1.710	ug/L	92
27) 1,2-Dichloroethane	5.18	62	14476	0.673	ug/L	97
29) 1,1,1-Trichloroethane	4.66	97	73070	2.253	ug/L	98
34) Trichloroethene	5.96	95	776094	36.180	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	6481	0.455	ug/L	93
47) Tetrachloroethene	8.02	164	12362	0.664	ug/L	95
63) 1,4-Dichlorobenzene	11.32	146	5312	0.125	ug/L	95
65) 1,2-Dichlorobenzene	11.69	146	5368	0.138	ug/L	91

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QLast Update : Sat Nov 23 01:35:18 2019
Response via : Initial Calibration

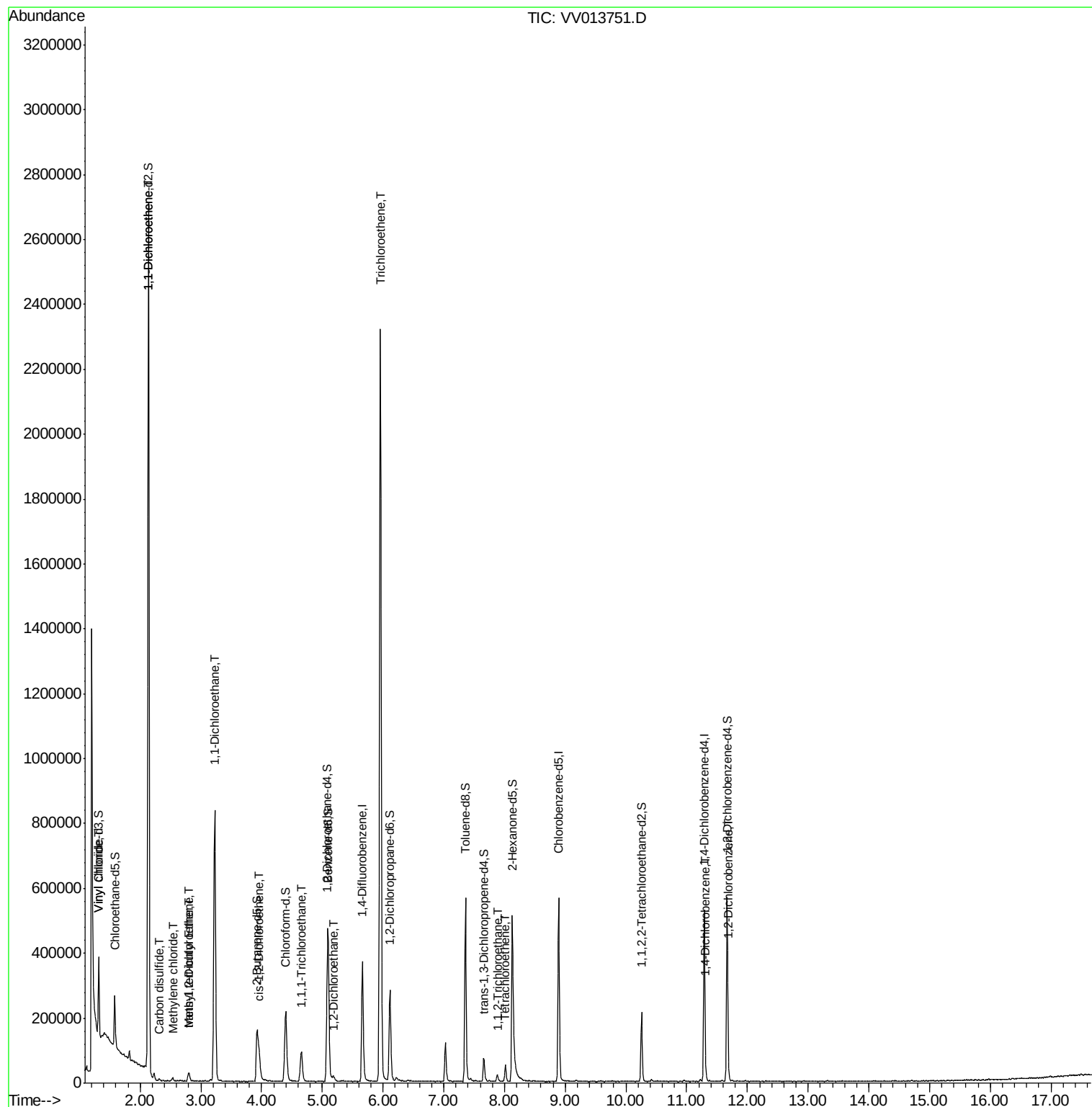
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

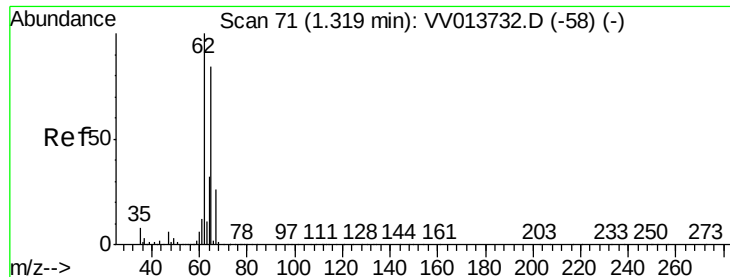
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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#5

Vinyl chloride

Concen: 2.656 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

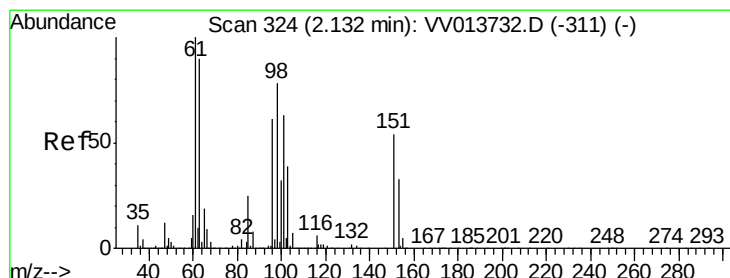
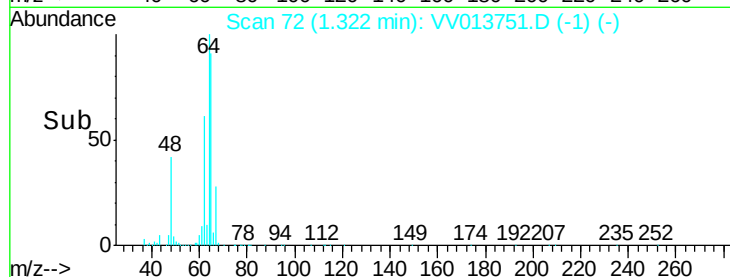
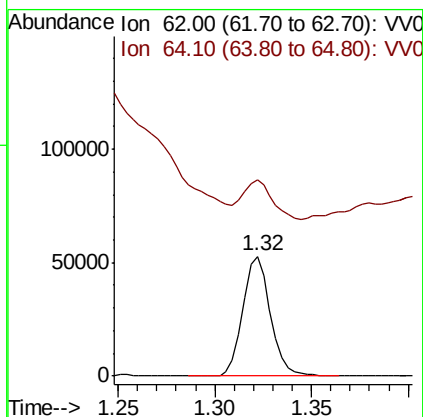
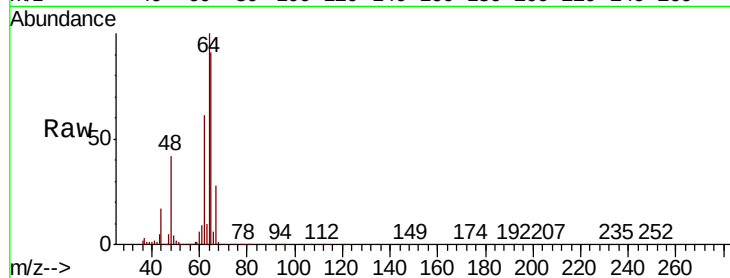
B0AD1

Tot Ion: 62 Resp: 51915

Ion Ratio Lower Upper

62 100

64 163.1 23.3 43.3#



#12

1,1-Dichloroethene

Concen: 48.544 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

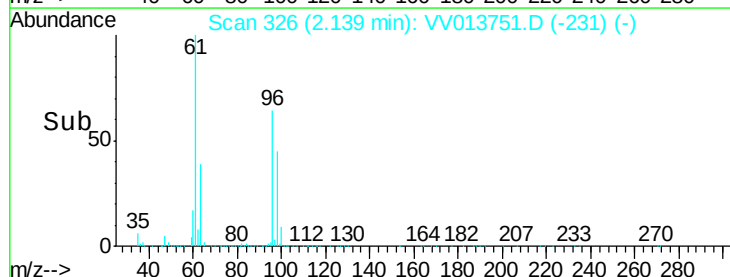
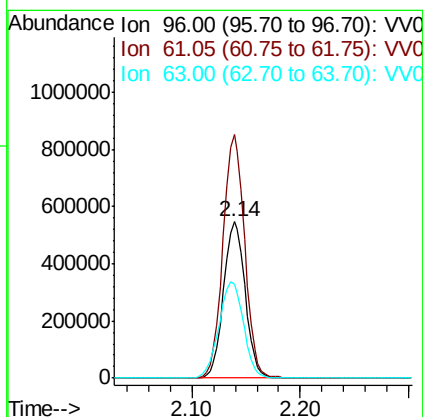
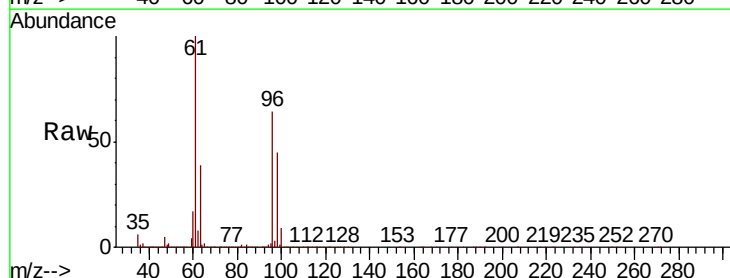
Tgt Ion: 96 Resp: 763484

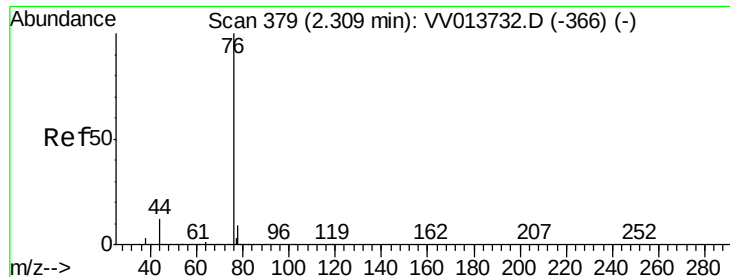
Ion Ratio Lower Upper

96 100

61 155.6 116.3 215.9

63 60.3 96.7 179.7#





#14

Carbon disulfide

Concen: 0.183 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

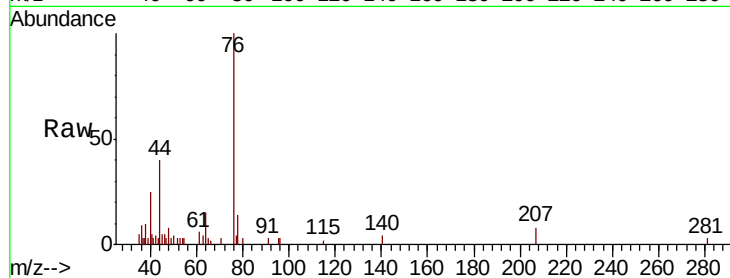
B0AD1

Tot Ion: 76 Resp: 6656

Ion Ratio Lower Upper

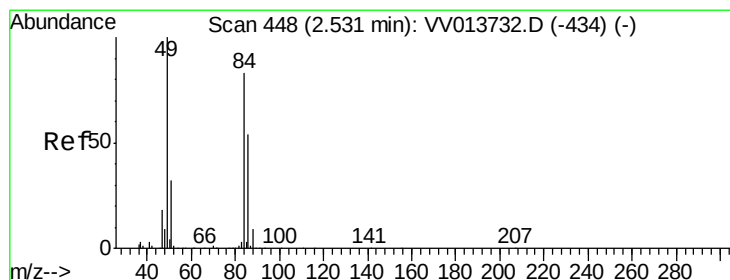
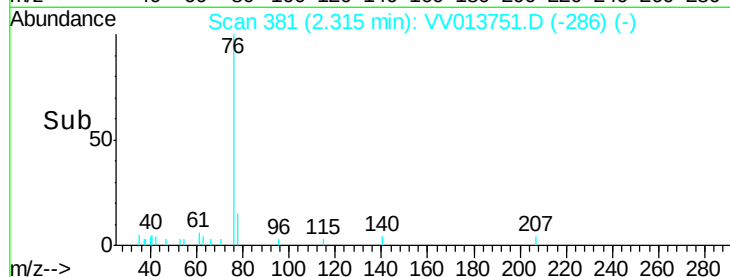
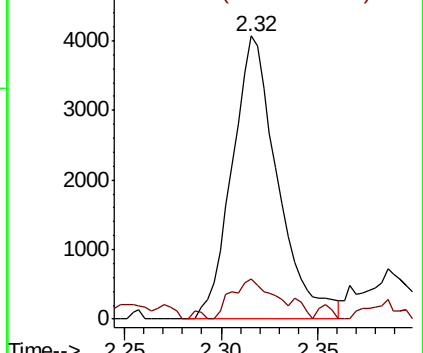
76 100

78 14.1 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 0.174 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

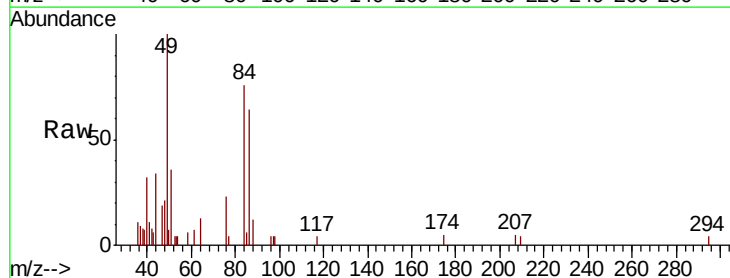
Tgt Ion: 84 Resp: 3742

Ion Ratio Lower Upper

84 100

86 83.2 44.0 81.6#

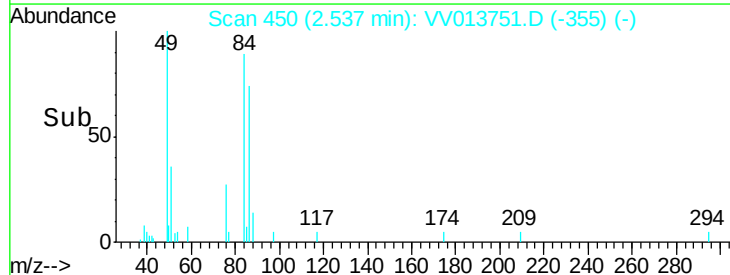
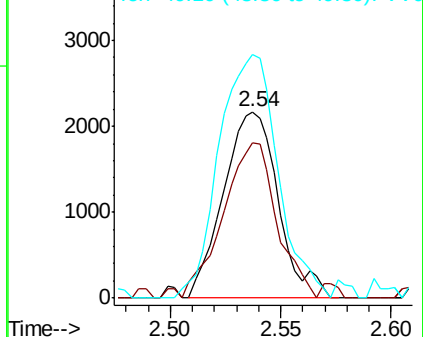
49 130.8 81.5 151.5

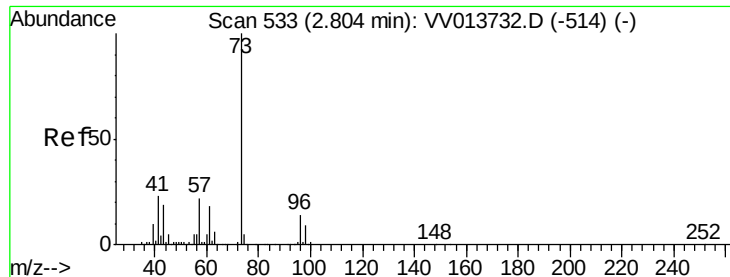


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

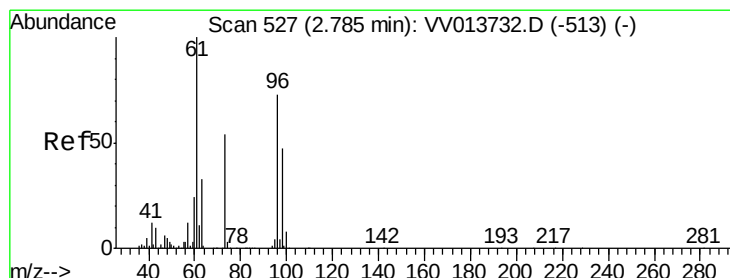
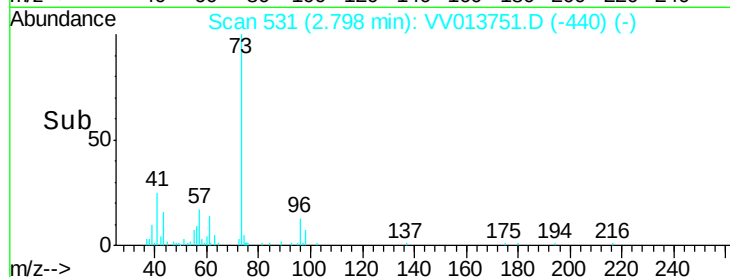
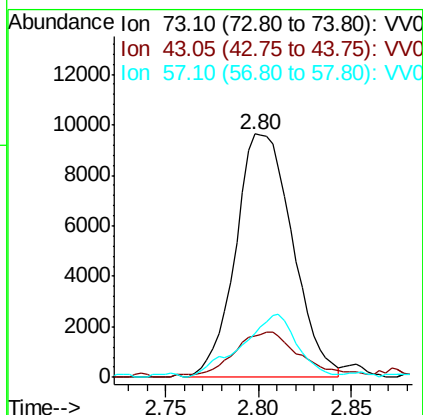
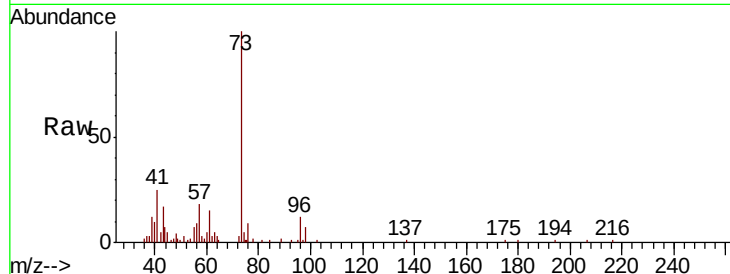




#17
Methyl tert-butyl Ether
Concen: 0.478 ug/L
RT: 2.80 min Scan# 531
Delta R.T. -0.01 min
Lab File: VV013751.D
Acq: 22 Nov 2019 22:12

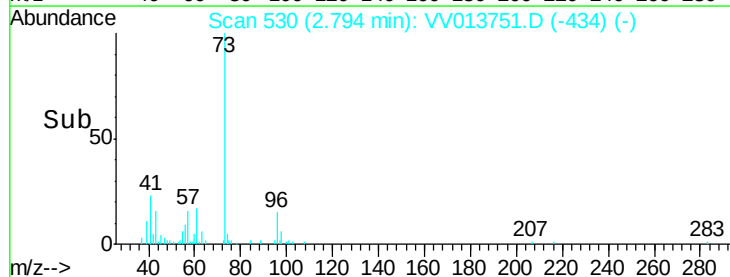
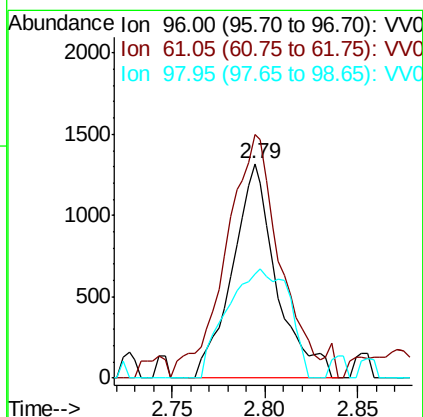
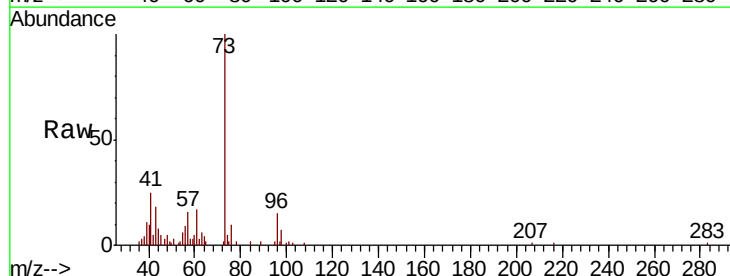
Instrument :
MSVOA_V
ClientSampleId :
B0AD1

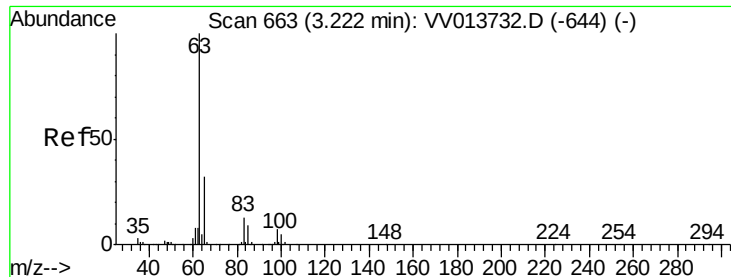
Tot Ion	Ratio	Lower	Upper
73	100		
43	22.4	15.5	23.3
57	25.4	17.5	26.3



#18
trans-1,2-Dichloroethene
Concen: 0.122 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV013751.D
Acq: 22 Nov 2019 22:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	113.7	95.1	176.7
98	48.8	46.5	86.3





#19

1,1-Dichloroethane

Concen: 23.573 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampled :

B0AD1

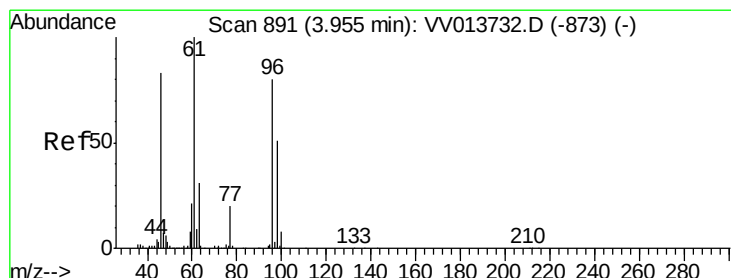
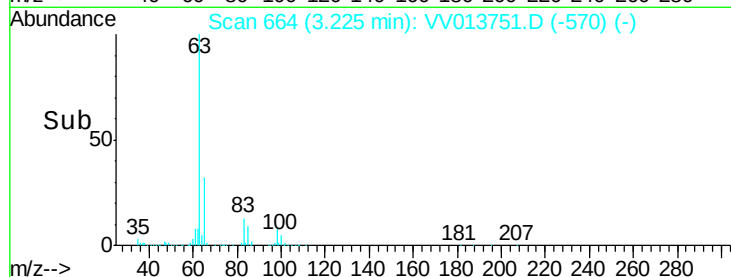
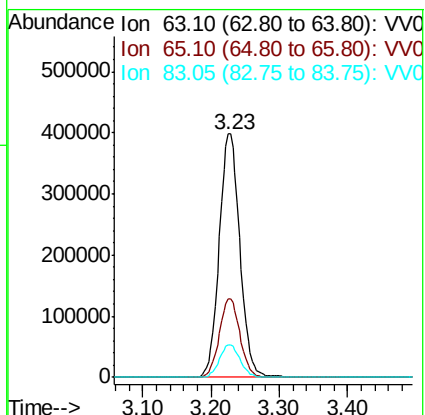
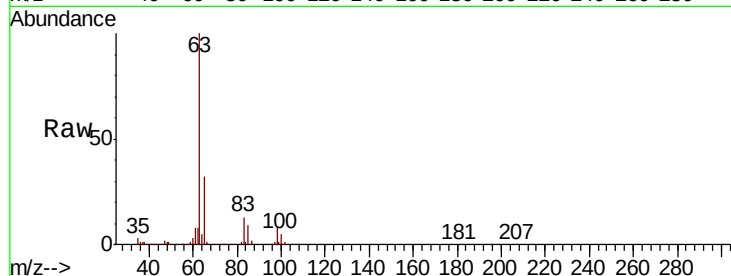
Tot Ion: 63 Resp: 835779

Ion Ratio Lower Upper

63 100

65 32.1 22.7 42.1

83 13.3 9.2 17.2



#22

cis-1,2-Dichloroethene

Concen: 1.710 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

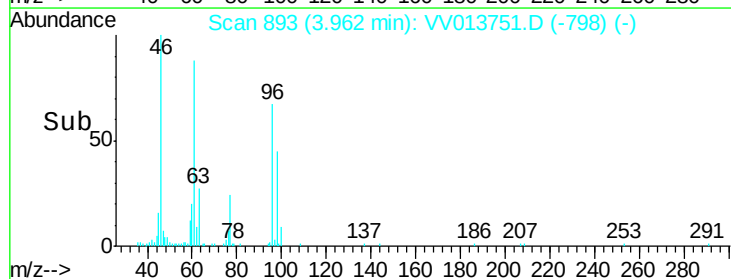
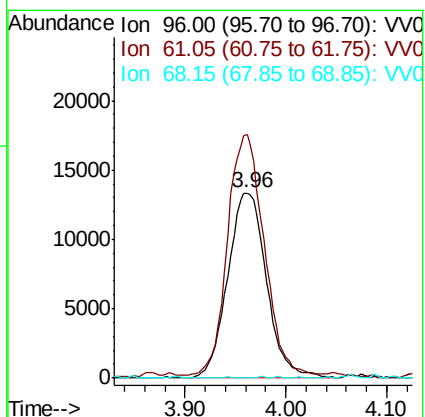
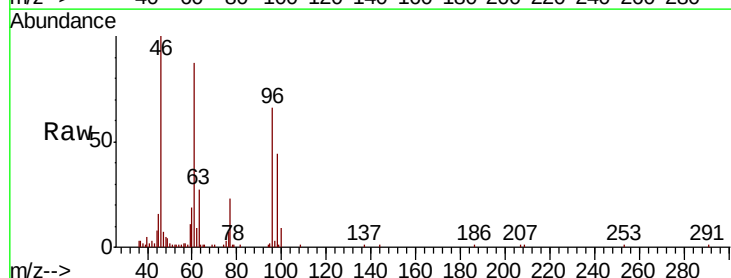
Tgt Ion: 96 Resp: 35617

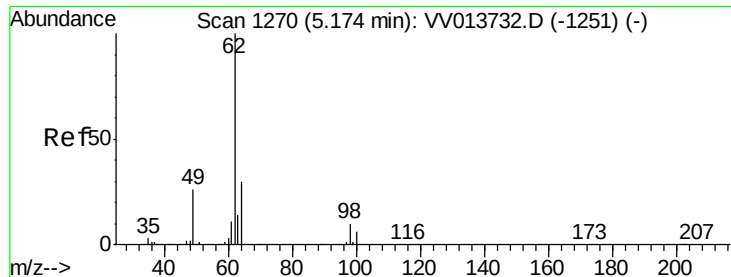
Ion Ratio Lower Upper

96 100

61 131.7 86.1 159.9

68 0.0 0.0 0.0

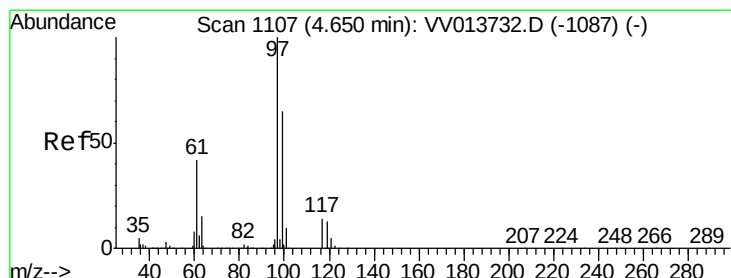
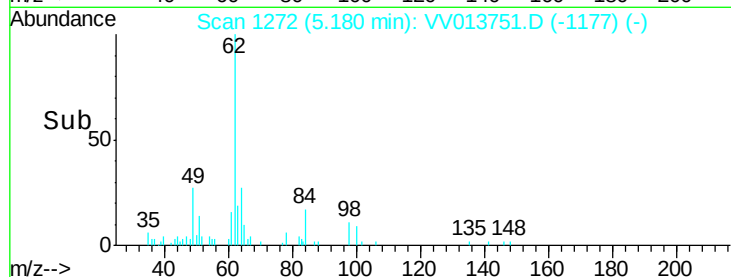
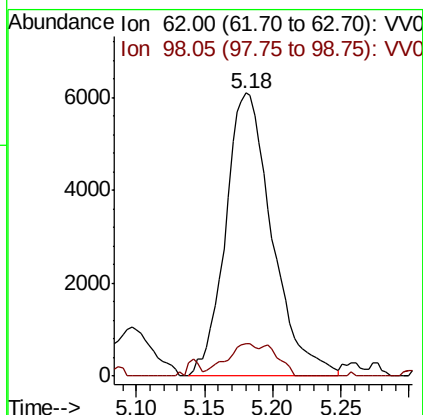
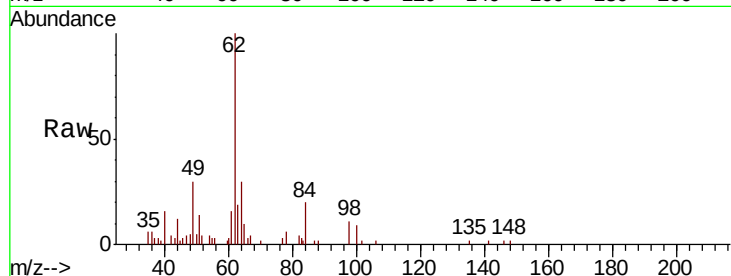




#27
 1,2-Dichloroethane
 Concen: 0.673 ug/L
 RT: 5.18 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VV013751.D
 Acq: 22 Nov 2019 22:12

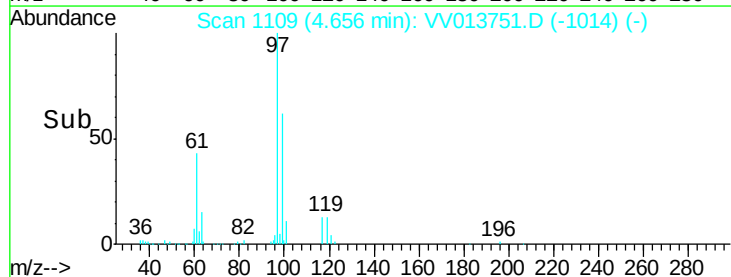
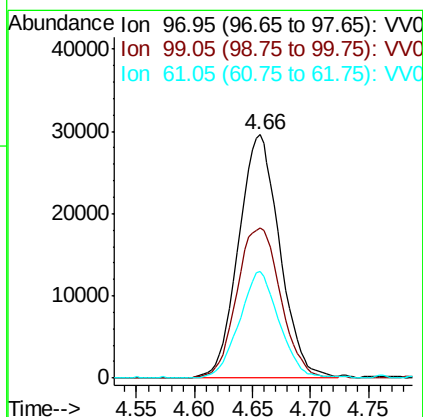
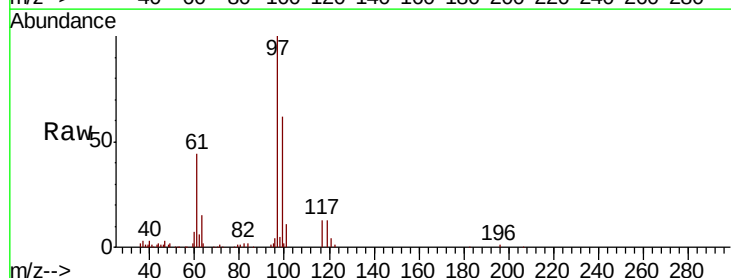
Instrument :
 MSVOA_V
 ClientSampleId :
 B0AD1

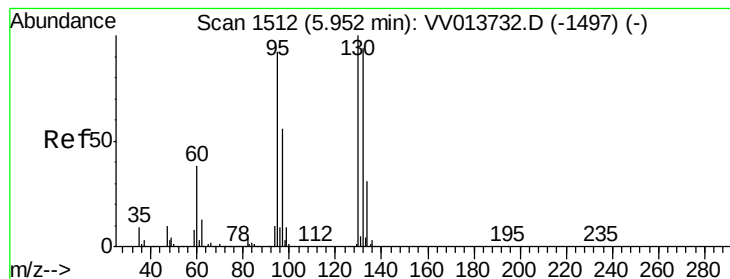
Tot Ion: 62 Resp: 14476
 Ion Ratio Lower Upper
 62 100
 98 11.4 8.2 12.2



#29
 1,1,1-Trichloroethane
 Concen: 2.253 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VV013751.D
 Acq: 22 Nov 2019 22:12

Tgt Ion: 97 Resp: 73070
 Ion Ratio Lower Upper
 97 100
 99 66.0 51.7 77.5
 61 42.4 35.0 52.6





#34

Trichloroethene

Concen: 36.180 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

B0AD1

Tot Ion: 95 Resp: 776094

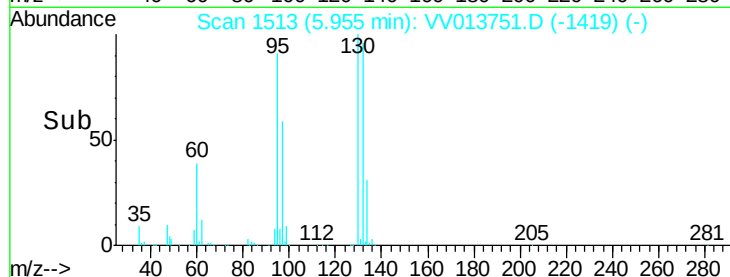
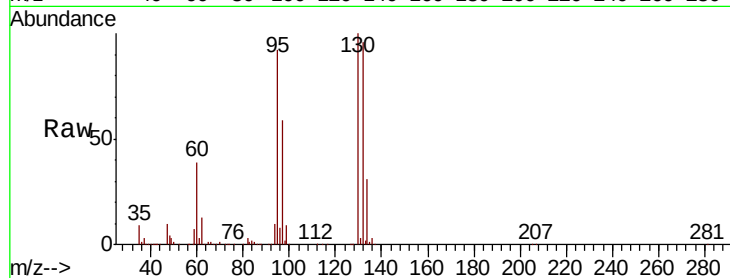
Ion Ratio Lower Upper

95 100

97 64.4 45.6 84.8

132 105.0 70.5 130.9

130 109.0 75.9 140.9

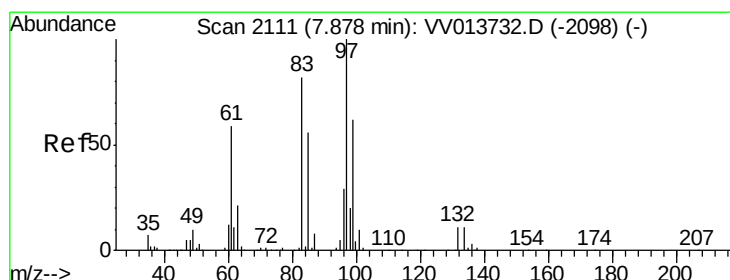
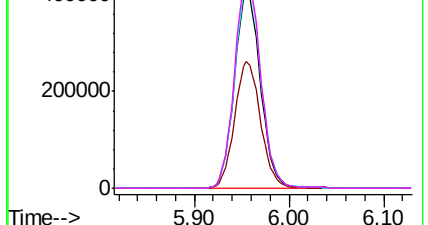


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#45

1,1,2-Trichloroethane

Concen: 0.455 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Tgt Ion: 97 Resp: 6481

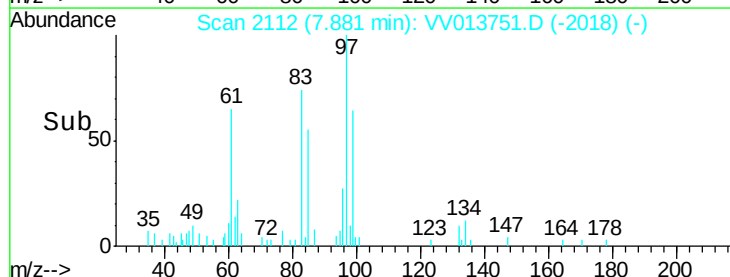
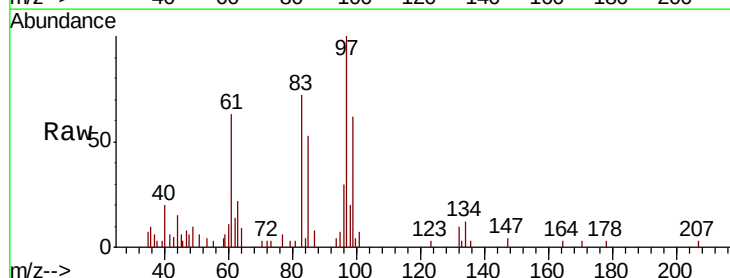
Ion Ratio Lower Upper

97 100

99 62.2 44.2 82.0

83 71.5 59.7 110.9

85 52.8 38.3 71.1

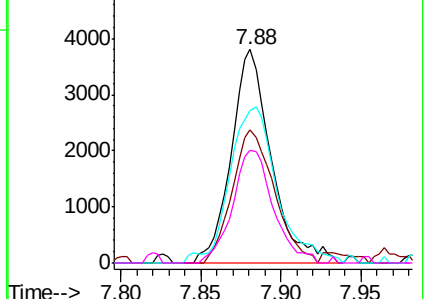


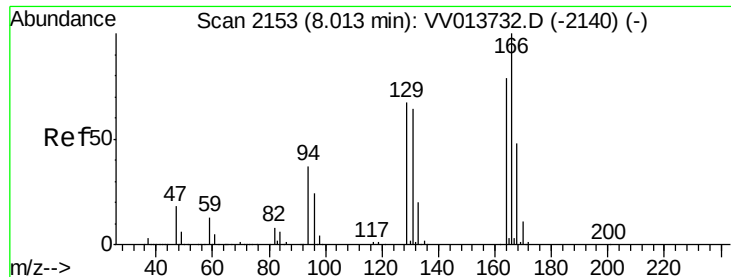
Abundance Ion 96.95 (96.65 to 97.65): VV0

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





#47

Tetrachloroethene

Concen: 0.664 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.01 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

Instrument :

MSVOA_V

ClientSampleId :

B0AD1

Tot Ion:164 Resp: 12362

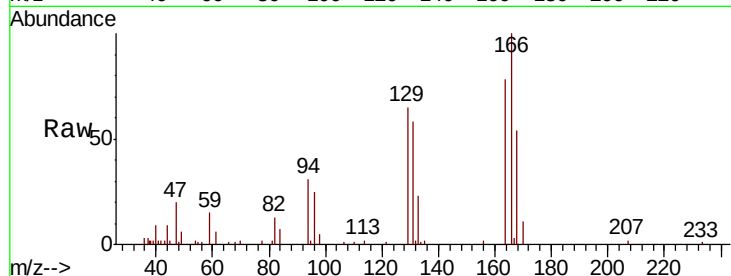
Ion Ratio Lower Upper

164 100

129 82.3 60.3 112.1

131 74.0 59.9 111.3

166 127.5 89.1 165.5

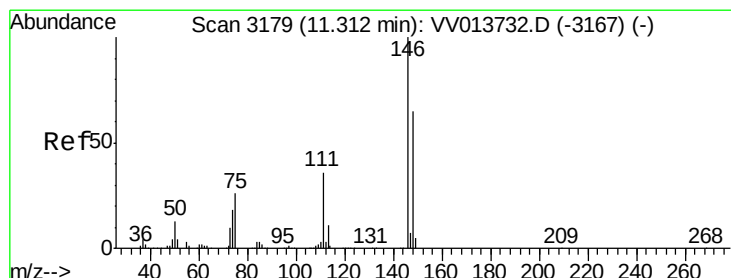
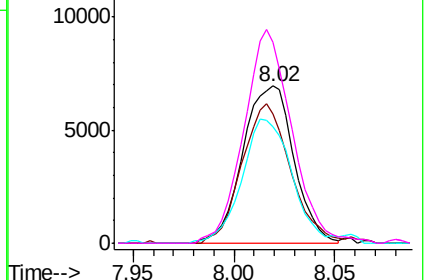
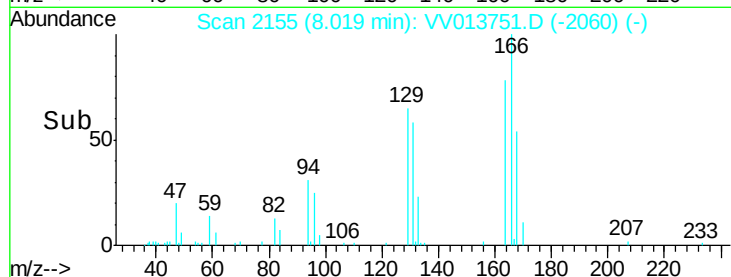


Abundance Ion 163.90 (163.60 to 164.60): V

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



#63

1,4-Dichlorobenzene

Concen: 0.125 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013751.D

Acq: 22 Nov 2019 22:12

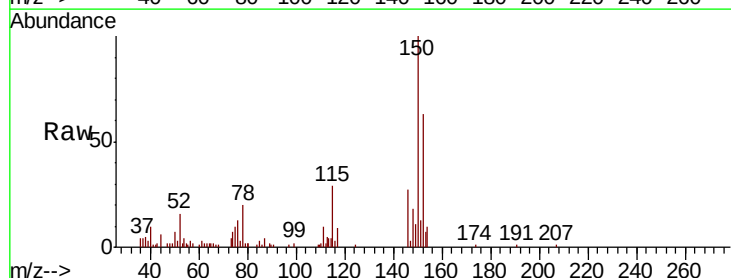
Tgt Ion:146 Resp: 5312

Ion Ratio Lower Upper

146 100

111 37.5 25.0 46.4

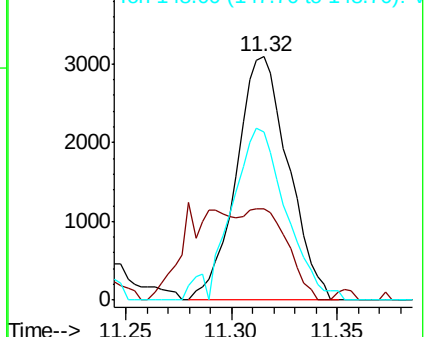
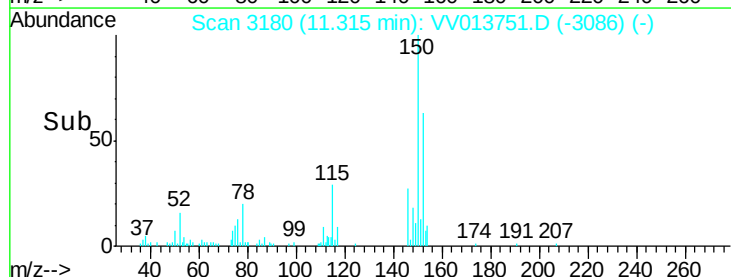
148 69.2 45.4 84.2

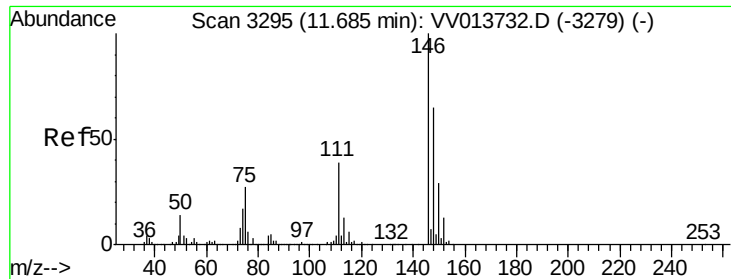


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

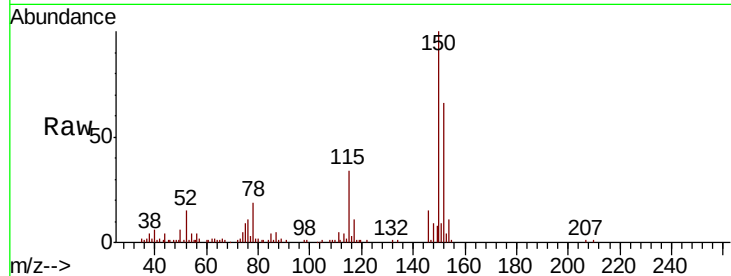




#65
 1,2-Dichlorobenzene
 Concen: 0.138 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV013751.D
 Acq: 22 Nov 2019 22:12

Instrument :
 MSVOA_V
 ClientSampleId :
 B0AD1

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.2	31.3	46.9
148	57.9	52.2	78.2



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

