

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112719\
 Data File : VV013823.D
 Acq On : 27 Nov 2019 14:50
 Operator : SY/MD
 Sample : K6056-04DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 28 02:57:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 28 02:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	329133	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	316079	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	147204	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	72281	3.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.00%
7) Chloroethane-d5	1.58	69	74728	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.40%
11) 1,1-Dichloroethene-d2	2.13	63	145419	4.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.80%
20) 2-Butanone-d5	3.96	46	247787	58.51	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.02%
24) Chloroform-d	4.40	84	169010	4.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.20%
26) 1,2-Dichloroethane-d4	5.08	65	97999	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
32) Benzene-d6	5.09	84	346225	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.00%
36) 1,2-Dichloropropane-d6	6.11	67	112757	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.80%
41) Toluene-d8	7.36	98	266718	3.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.80%#
43) trans-1,3-Dichloropropene-	7.66	79	38521	4.07	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.40%
46) 2-Hexanone-d5	8.14	63	182809	52.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.80%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	85435	5.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	125960	4.85	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2739	0.151	ug/L #	72
12) 1,1-Dichloroethene	2.14	96	77077	4.871	ug/L	91
13) Acetone	2.22	43	5233	1.767	ug/L	98
16) Methylene chloride	2.53	84	2950	0.136	ug/L	81
17) Methyl tert-butyl Ether	2.81	73	3725	0.086	ug/L #	76
19) 1,1-Dichloroethane	3.23	63	39220	1.099	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	113169	5.401	ug/L #	99
25) Chloroform	4.42	83	26803	0.709	ug/L	86
27) 1,2-Dichloroethane	5.10	62	1636	0.076	ug/L	96
29) 1,1,1-Trichloroethane	4.66	97	16340	0.505	ug/L	97
33) Benzene	5.14	78	8007	0.103	ug/L	100
34) Trichloroethene	5.96	95	295900	13.835	ug/L	99
35) Methylcyclohexane	6.12	83	28933	1.014	ug/L #	19
37) 1,2-Dichloropropane	6.12	63	14088	0.707	ug/L #	85
42) Toluene	7.43	91	5535	0.067	ug/L	78
47) Tetrachloroethene	8.02	164	89706	4.830	ug/L	97
48) 2-Hexanone	8.14	43	24365	2.936	ug/L #	77

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QLast Update : Thu Nov 28 02:51:59 2019
Response via : Initial Calibration

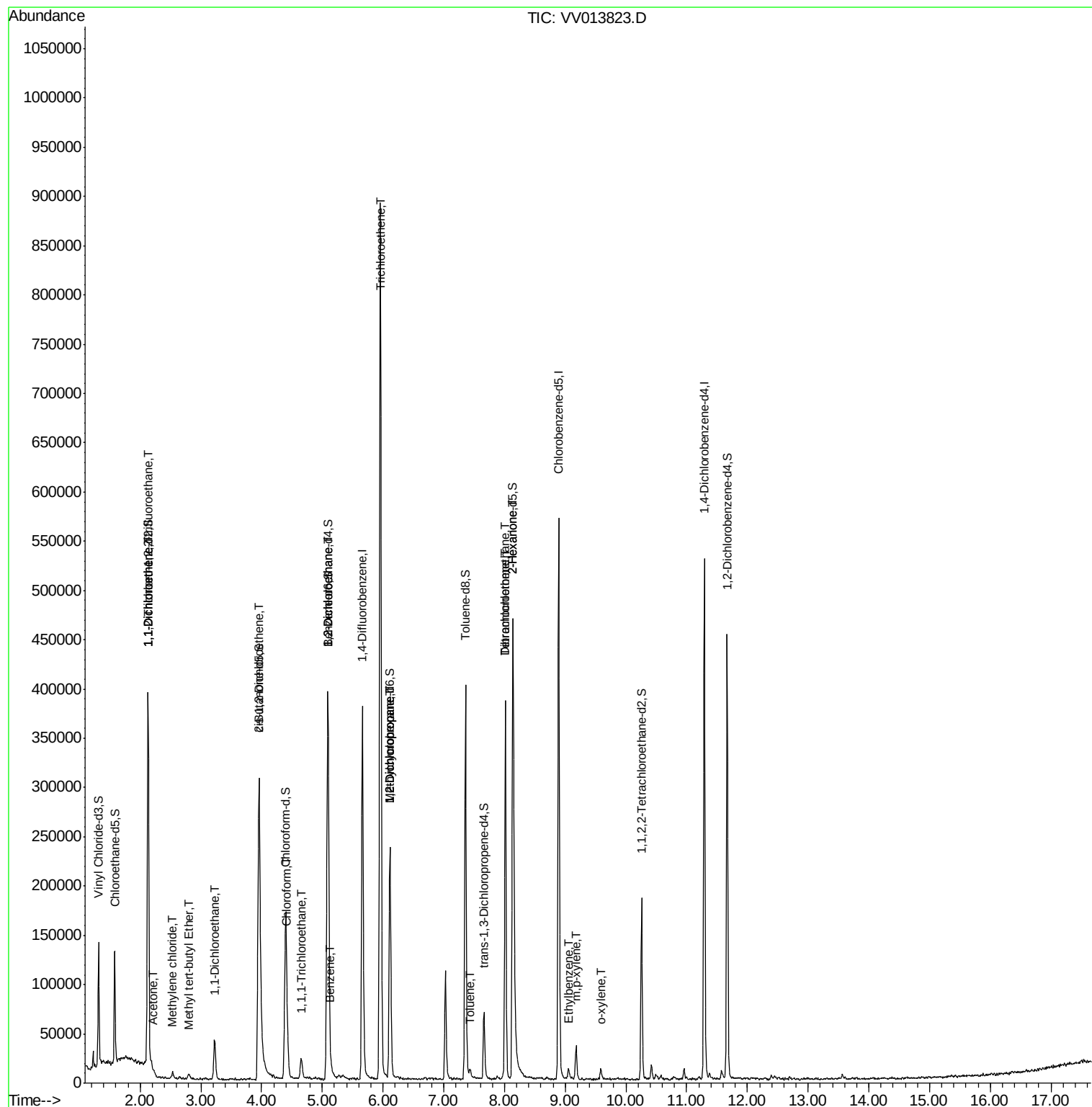
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.02	129	71778	3.941	ug/L #	10
52) Ethylbenzene	9.05	91	7680	0.085	ug/L	97
53) m,p-xylene	9.18	106	10082	0.293	ug/L	99
54) o-xylene	9.59	106	2979	0.089	ug/L	85

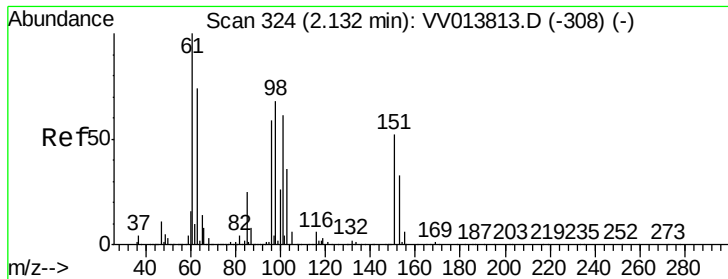
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 28 02:51:59 2019
Response via : Initial Calibration





#10

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

Concen: 0.151 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV013823.D

Acq: 27 Nov 2019 14:50

Instrument :

MSVOA_V

ClientSampleId :

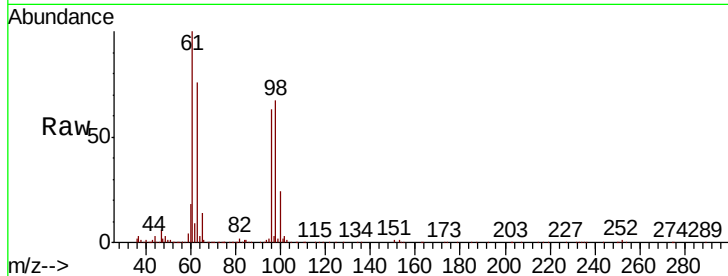
Tot Ion:101 Resp: 2739

Ion Ratio Lower Upper

101 100

85 31.8 33.4 50.0#

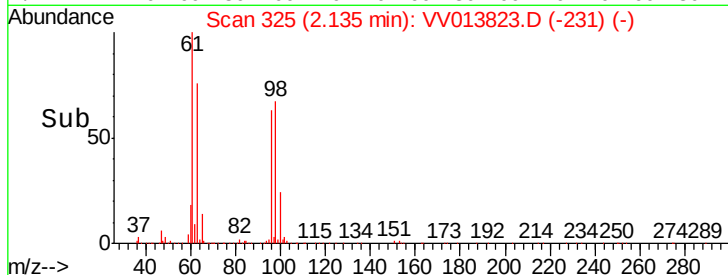
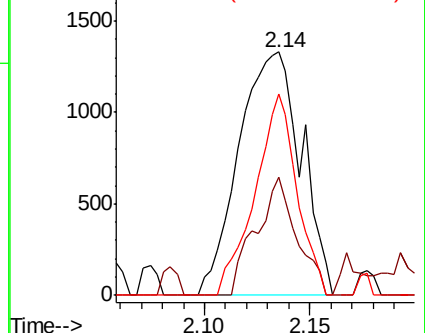
151 55.5 69.4 104.0#



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: 4.871 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV013823.D

Acq: 27 Nov 2019 14:50

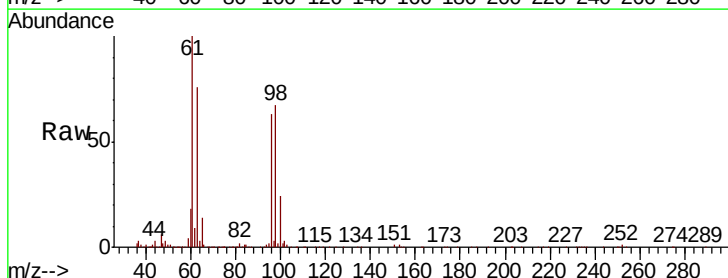
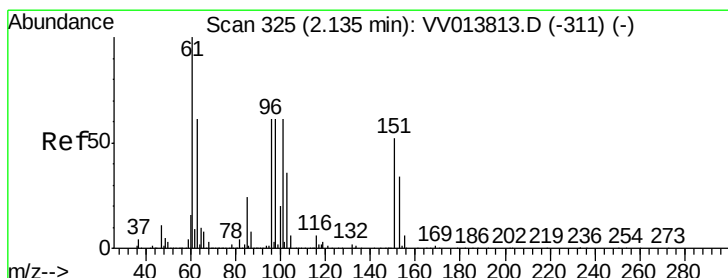
Tgt Ion: 96 Resp: 77077

Ion Ratio Lower Upper

96 100

61 159.2 116.3 215.9

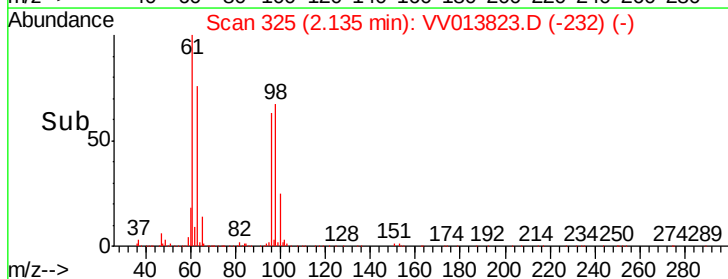
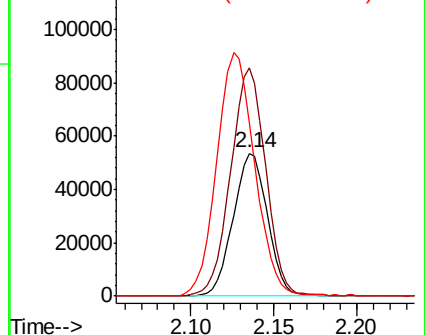
63 120.7 96.7 179.7

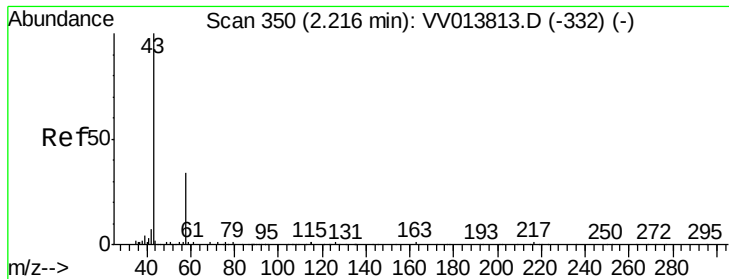


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 1.767 ug/L

RT: 2.22 min Scan# 352

Delta R.T. 0.01 min

Lab File: VV013823.D

Acq: 27 Nov 2019 14:50

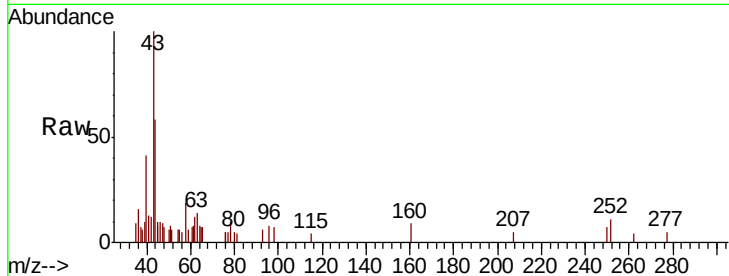
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 5233

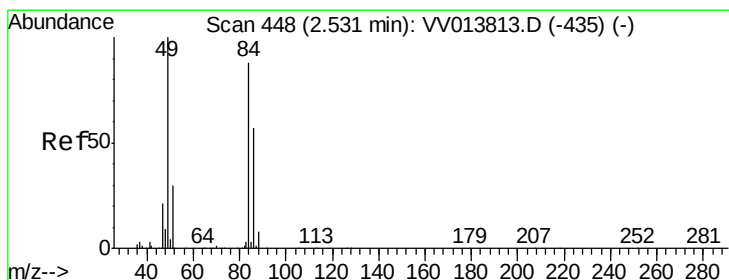
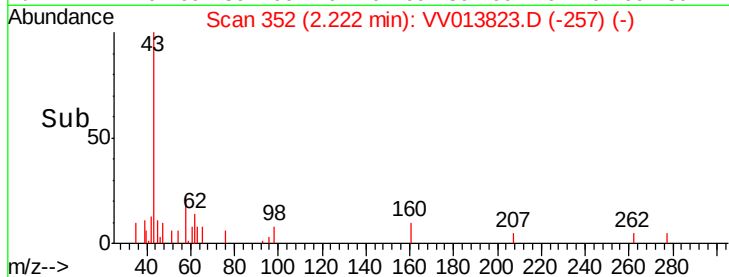
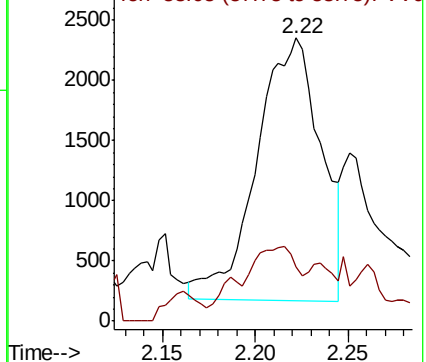
Ion Ratio Lower Upper

43 100

58 14.3 0.0 27.2



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0



#16

Methylene chloride

Concen: 0.136 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013823.D

Acq: 27 Nov 2019 14:50

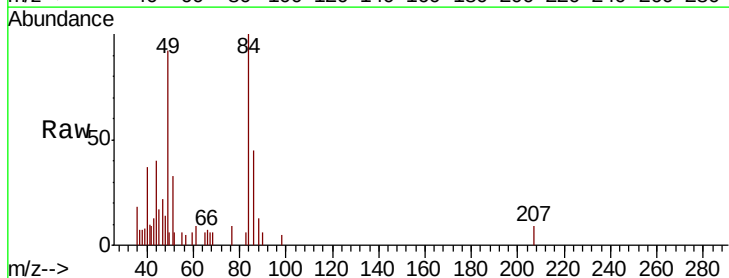
Tgt Ion: 84 Resp: 2950

Ion Ratio Lower Upper

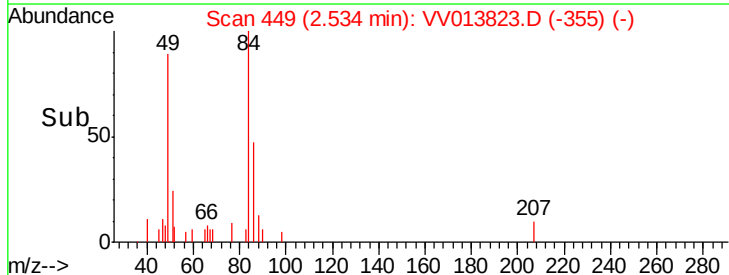
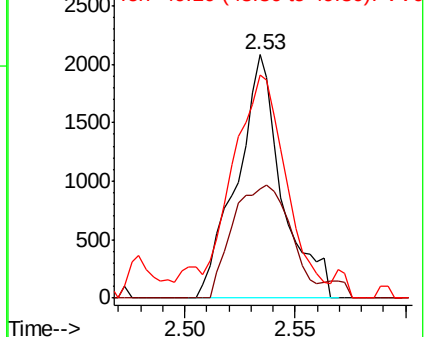
84 100

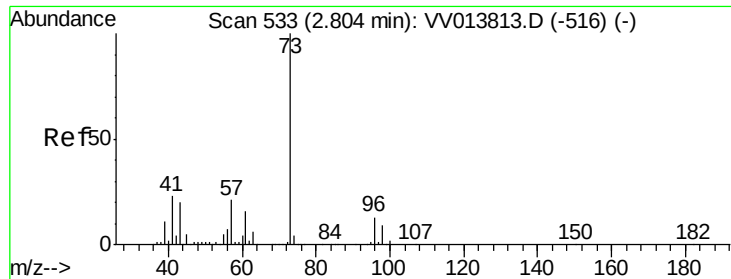
86 44.8 44.0 81.6

49 97.7 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

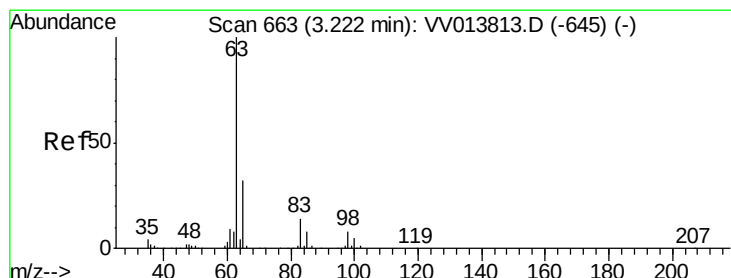
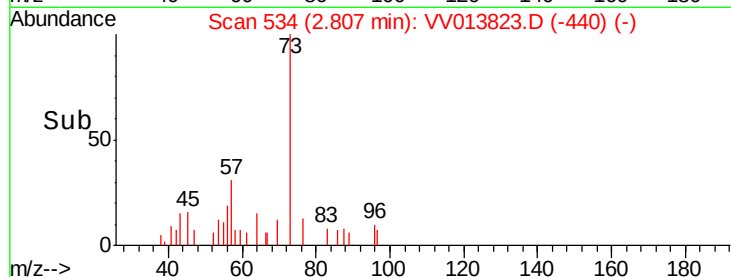
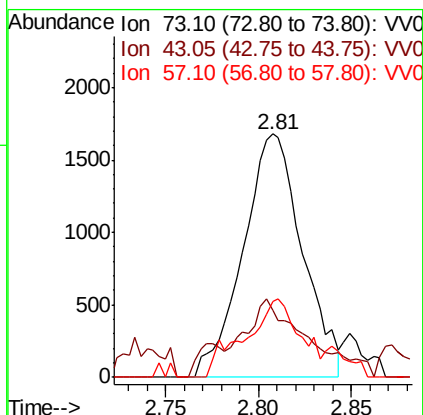
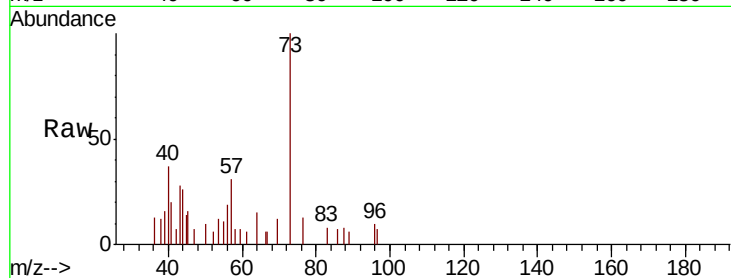




#17
Methyl tert-butyl Ether
Concen: 0.086 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV013823.D
Acq: 27 Nov 2019 14:50

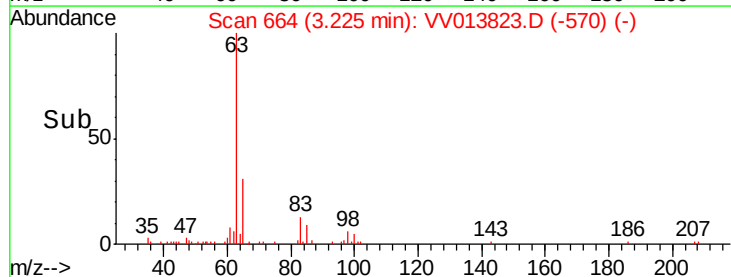
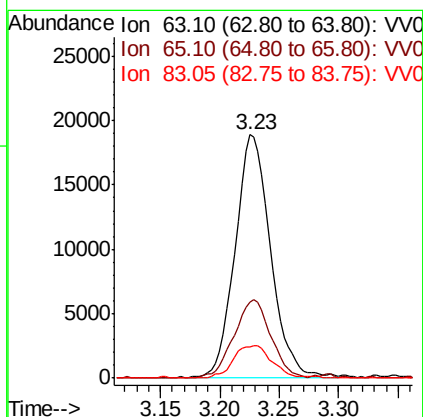
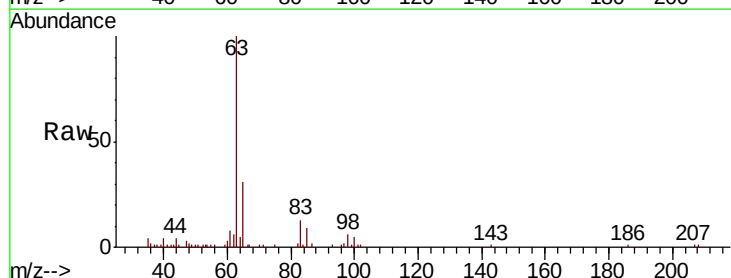
Instrument :
MSVOA_V
ClientSampleId :

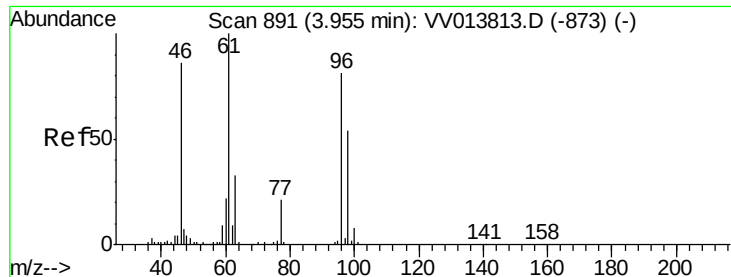
Tot Ion: 73 Resp: 3725
Ion Ratio Lower Upper
73 100
43 34.0 15.5 23.3#
57 30.0 17.5 26.3#



#19
1,1-Dichloroethane
Concen: 1.099 ug/L
RT: 3.23 min Scan# 664
Delta R.T. 0.00 min
Lab File: VV013823.D
Acq: 27 Nov 2019 14:50

Tgt Ion: 63 Resp: 39220
Ion Ratio Lower Upper
63 100
65 31.3 22.7 42.1
83 12.9 9.2 17.2



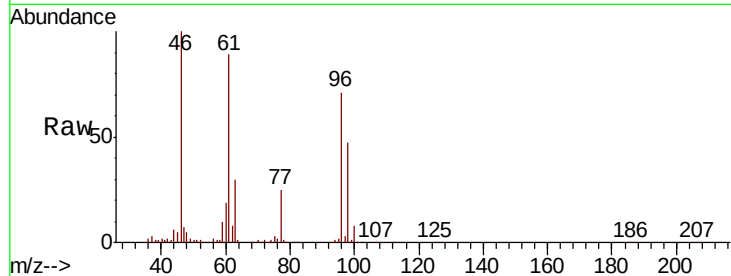


#22

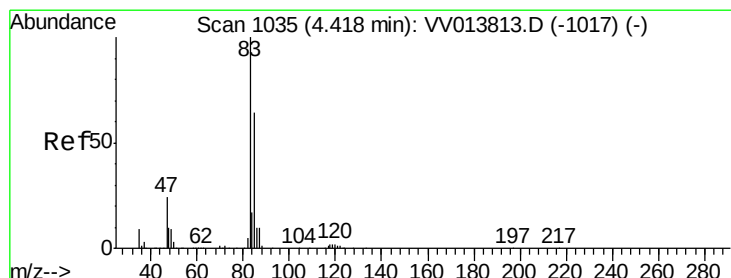
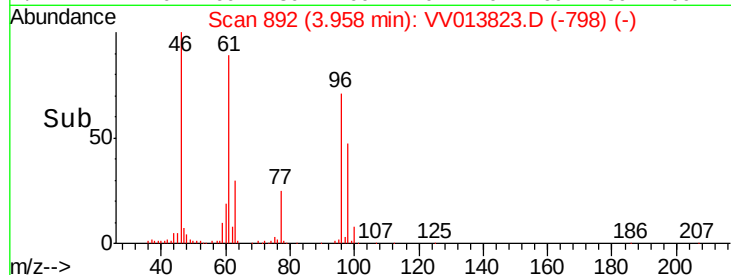
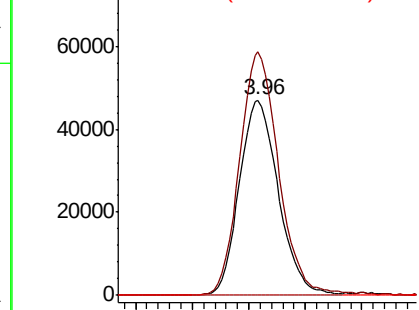
cis-1,2-Dichloroethene
 Concen: 5.401 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013823.D
 Acq: 27 Nov 2019 14:50

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 113169
 Ion Ratio Lower Upper
 96 100
 61 124.6 86.1 159.9
 68 0.2 0.0 0.0#



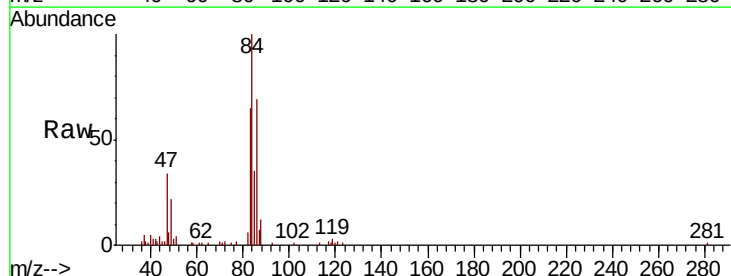
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



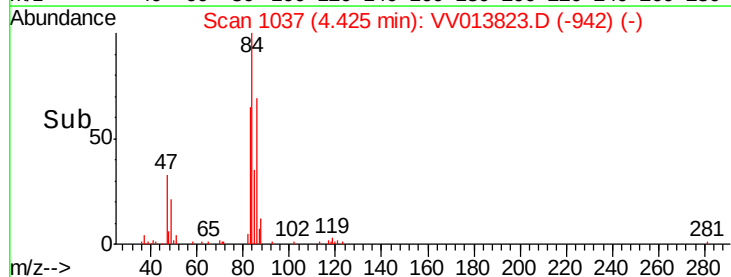
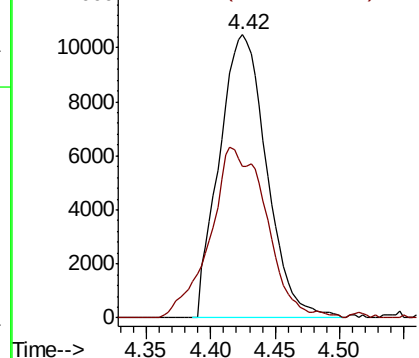
#25

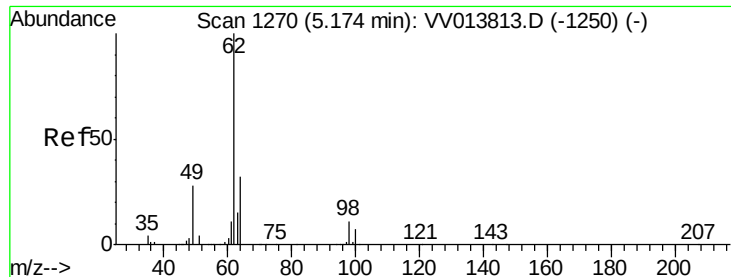
Chloroform
 Concen: 0.709 ug/L
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VV013823.D
 Acq: 27 Nov 2019 14:50

Tgt Ion: 83 Resp: 26803
 Ion Ratio Lower Upper
 83 100
 85 53.6 45.1 83.7



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

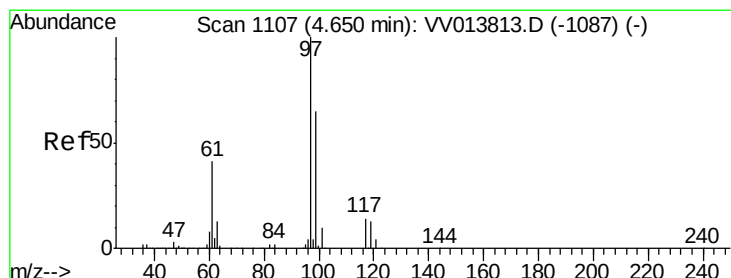
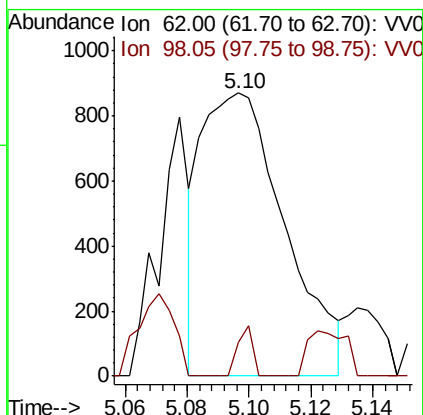
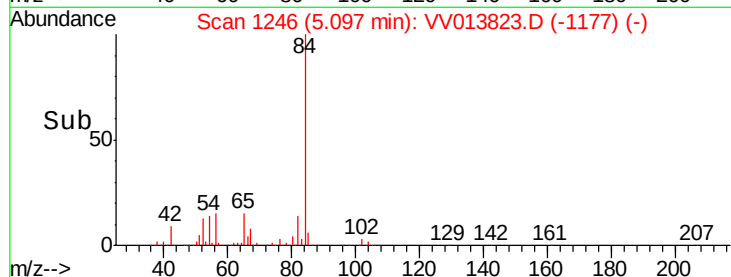
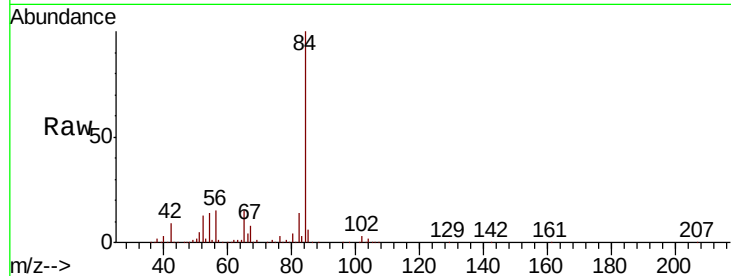




#27
 1,2-Dichloroethane
 Concen: 0.076 ug/L
 RT: 5.10 min Scan# 1246
 Delta R.T. -0.08 min
 Lab File: VV013823.D
 Acq: 27 Nov 2019 14:50

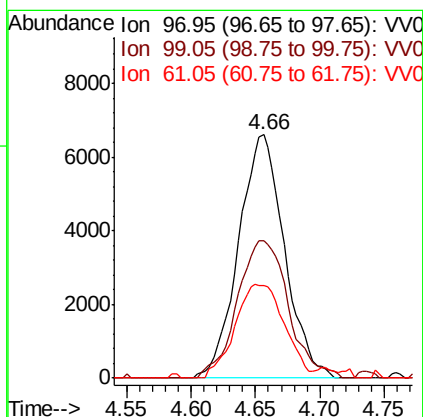
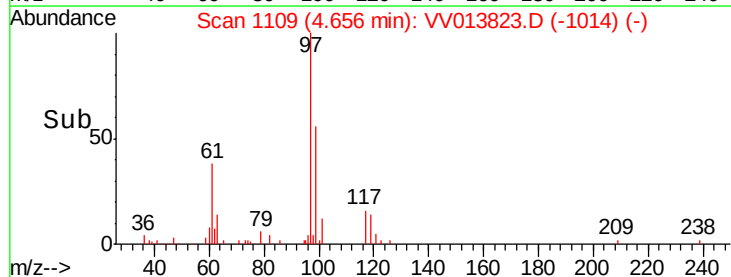
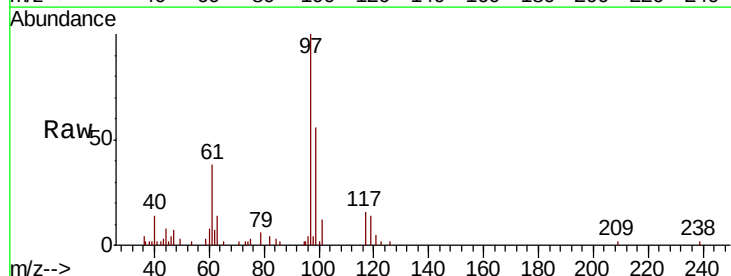
Instrument :
 MSVOA_V
 ClientSampleId :

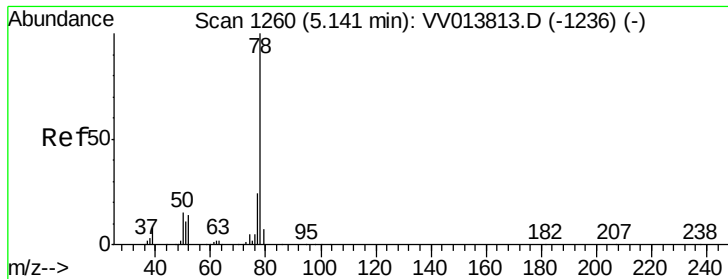
Tot Ion: 62 Resp: 1636
 Ion Ratio Lower Upper
 62 100
 98 11.8 8.2 12.2



#29
 1,1,1-Trichloroethane
 Concen: 0.505 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VV013823.D
 Acq: 27 Nov 2019 14:50

Tgt Ion: 97 Resp: 16340
 Ion Ratio Lower Upper
 97 100
 99 62.9 51.7 77.5
 61 41.5 35.0 52.6

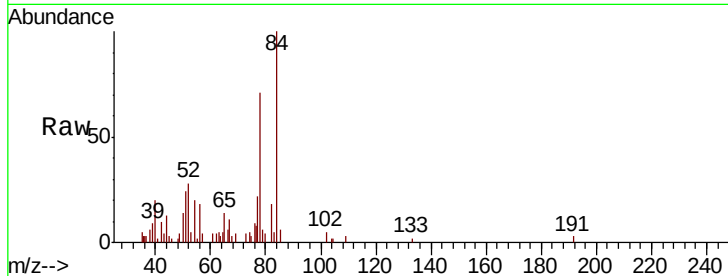




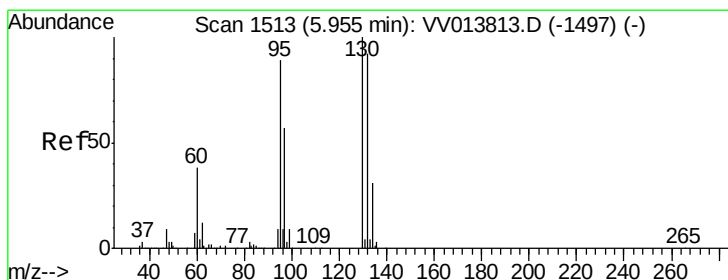
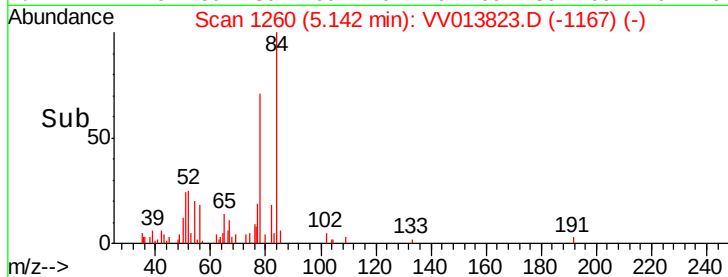
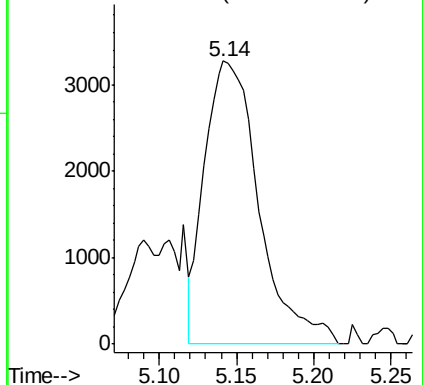
#33
Benzene
Concen: 0.103 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV013823.D
Acq: 27 Nov 2019 14:50

Tgt Ion: 78 Resp: 8007

Instrument :
MSVOA_V
ClientSampled :



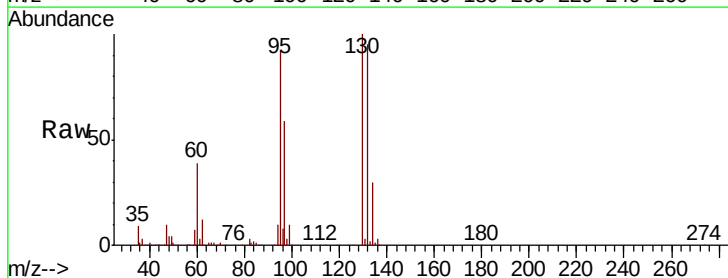
Abundance Ion 78.10 (77.80 to 78.80): VV0



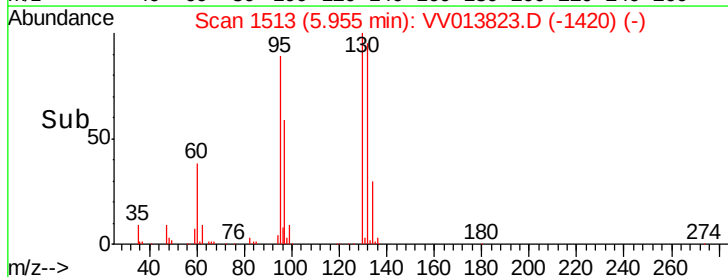
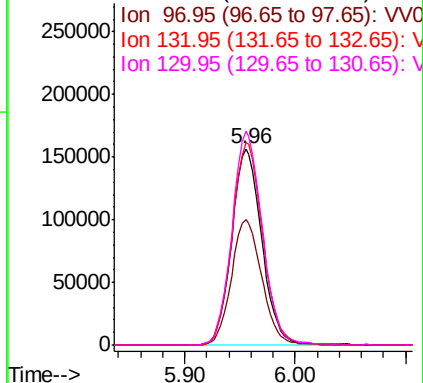
#34
Trichloroethene
Concen: 13.835 ug/L
RT: 5.96 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VV013823.D
Acq: 27 Nov 2019 14:50

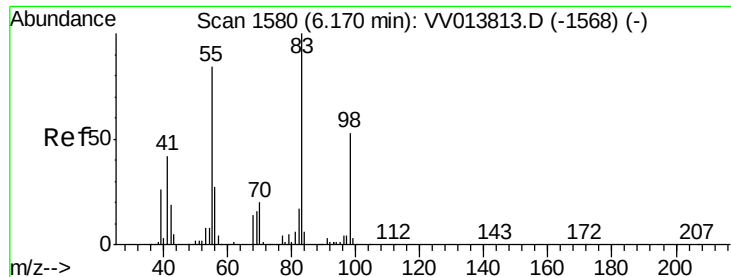
Tgt Ion: 95 Resp: 295900

Ion	Ratio	Lower	Upper
95	100		
97	64.2	45.6	84.8
132	103.1	70.5	130.9
130	109.0	75.9	140.9



Abundance Ion 95.00 (94.70 to 95.70): VV0





#35

Methvlcvclohexane

Concen: 1.014 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.05 min

Lab File: VV013823.D

Acq: 27 Nov 2019 14:50

Instrument :

MSVOA_V

ClientSampleId :

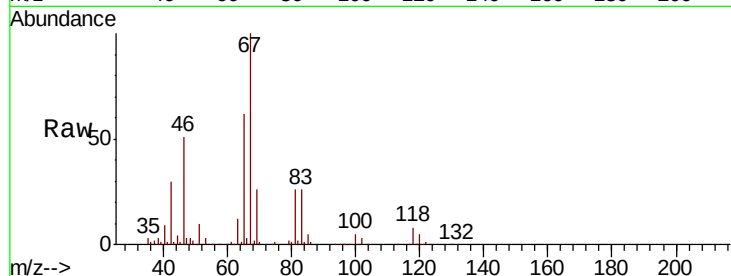
Tot Ion: 83 Resp: 28933

Ion Ratio Lower Upper

83 100

55 0.1 60.3 90.5#

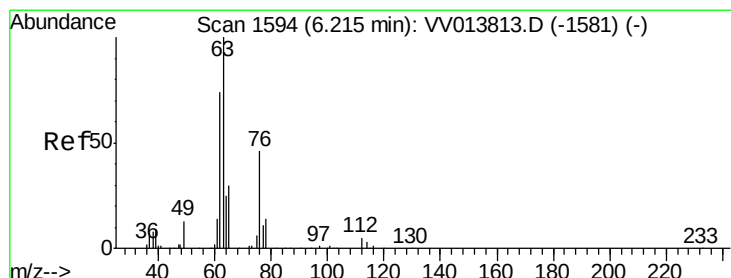
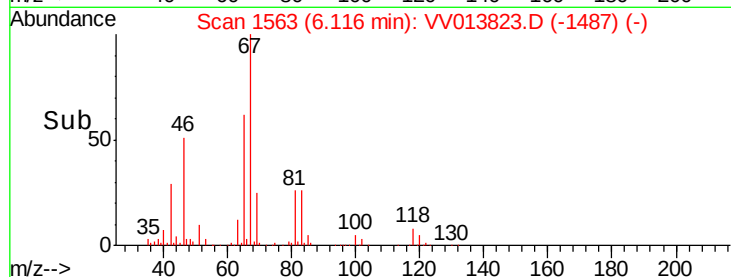
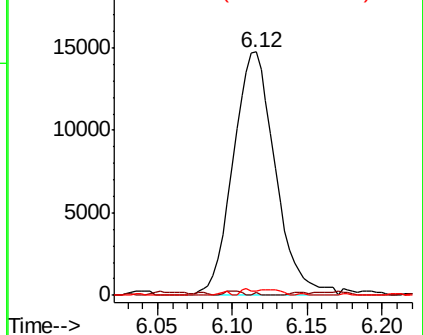
98 1.1 38.1 57.1#



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: 0.707 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.10 min

Lab File: VV013823.D

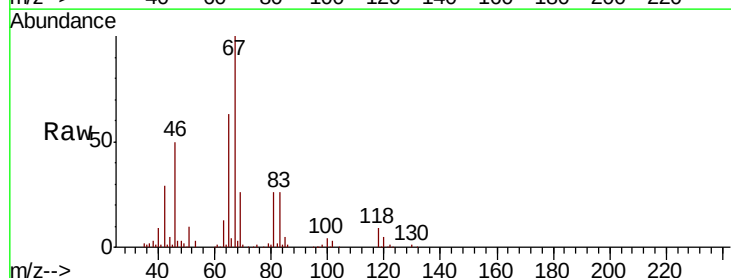
Acq: 27 Nov 2019 14:50

Tgt Ion: 63 Resp: 14088

Ion Ratio Lower Upper

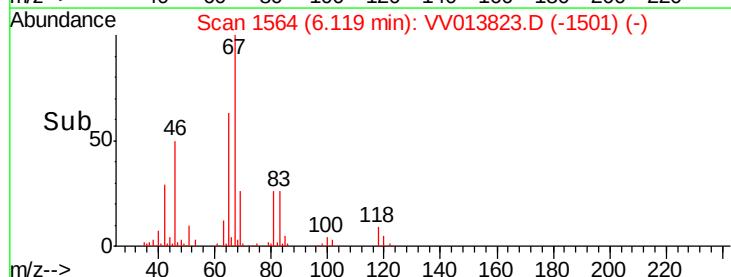
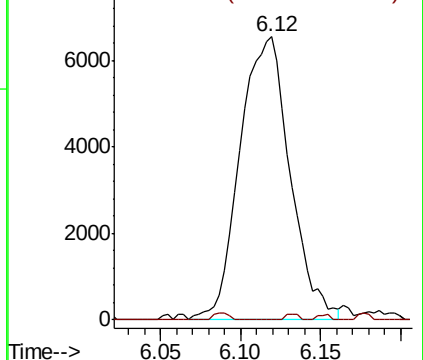
63 100

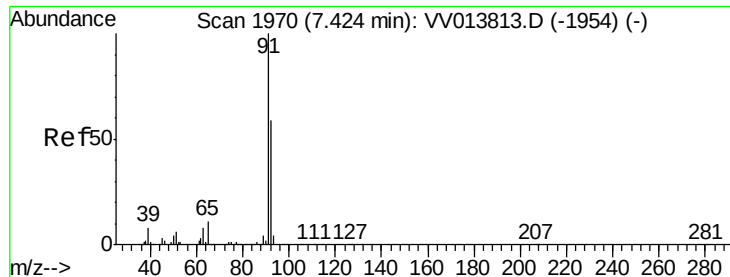
112 0.5 4.4 6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 0.067 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.01 min

Lab File: VV013823.D

Acq: 27 Nov 2019 14:50

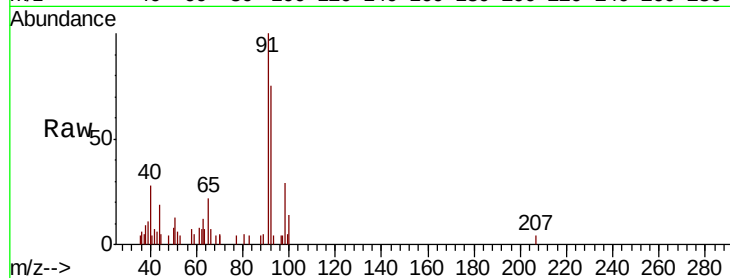
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 5535

Ion Ratio Lower Upper

91 100

92 74.9 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VV013813.D (-1954) (-)

Ion 92.15 (91.85 to 92.85): VV013813.D (-1954) (-)

7.43

3000

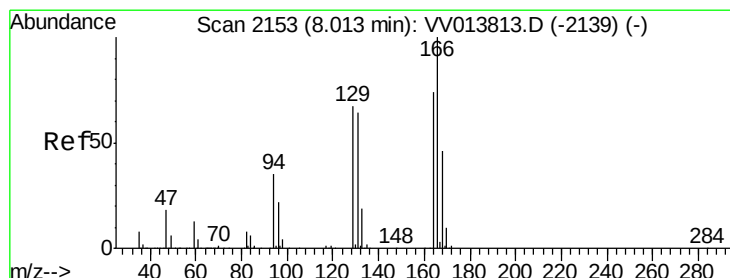
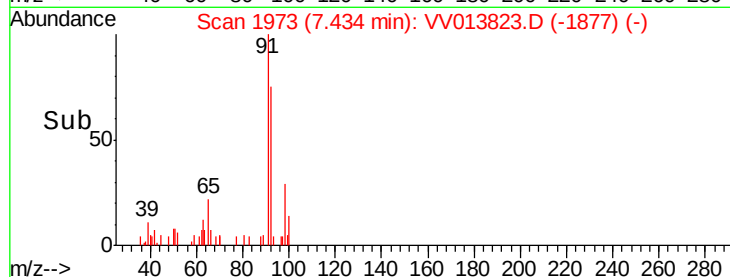
2000

1000

0

Time-->

7.35 7.40 7.45 7.50



#47

Tetrachloroethene

Concen: 4.830 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013823.D

Acq: 27 Nov 2019 14:50

Tgt Ion: 164 Resp: 89706

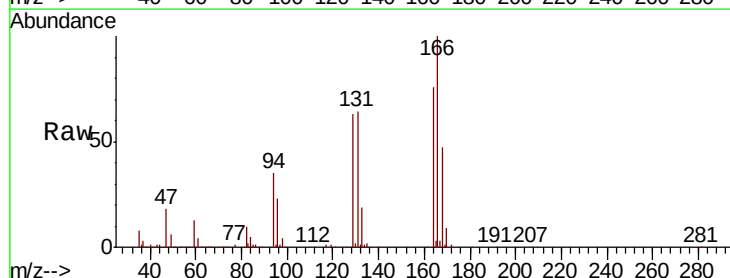
Ion Ratio Lower Upper

164 100

129 82.8 60.3 112.1

131 84.3 59.9 111.3

166 131.5 89.1 165.5



Abundance Ion 163.90 (163.60 to 164.60): VV013813.D (-2139) (-)

Ion 128.95 (128.65 to 129.65): VV013813.D (-2139) (-)

Ion 130.95 (130.65 to 131.65): VV013813.D (-2139) (-)

Ion 165.90 (165.60 to 166.60): VV013813.D (-2139) (-)

8.02

100000

80000

60000

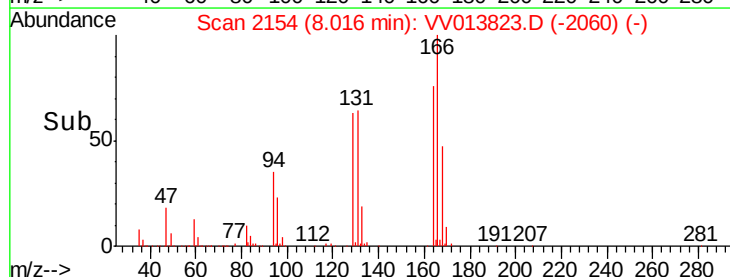
40000

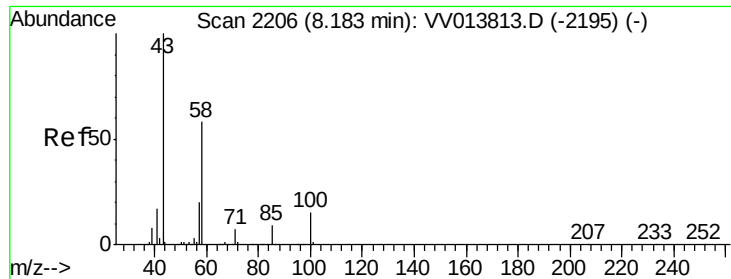
20000

0

Time-->

7.95 8.00 8.05 8.10

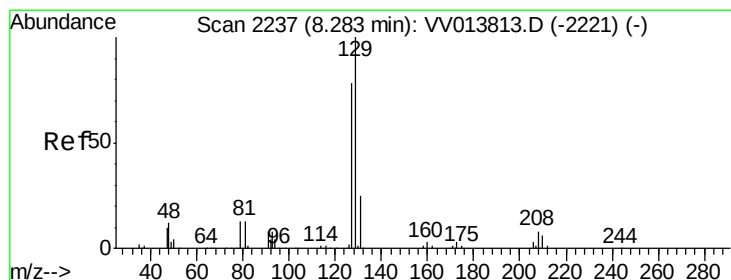
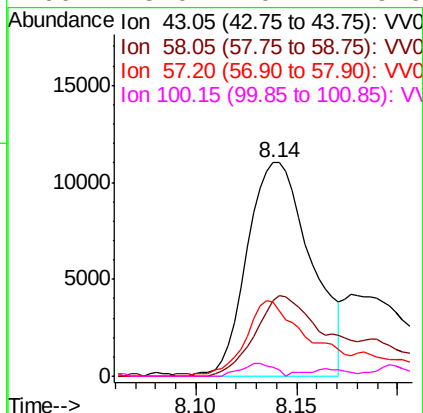
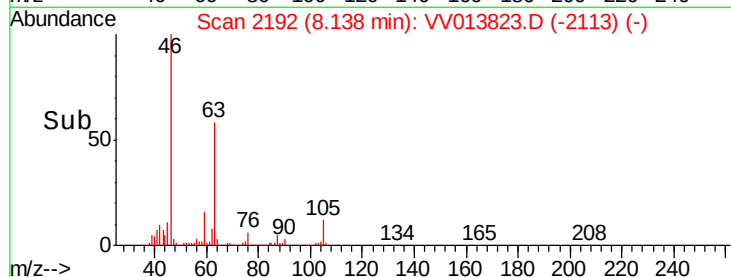
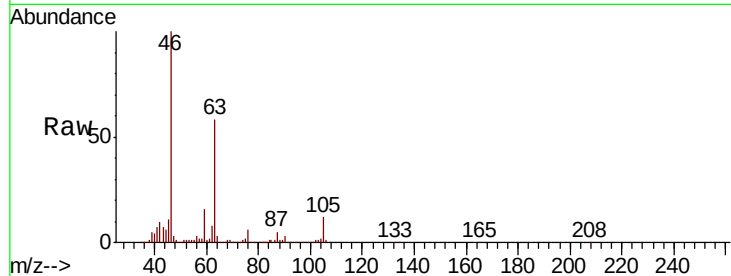




#48
2-Hexanone
Concen: 2.936 ug/L
RT: 8.14 min Scan# 2192
Delta R.T. -0.04 min
Lab File: VV013823.D
Acq: 27 Nov 2019 14:50

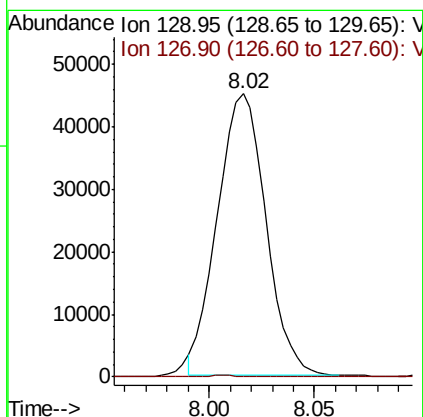
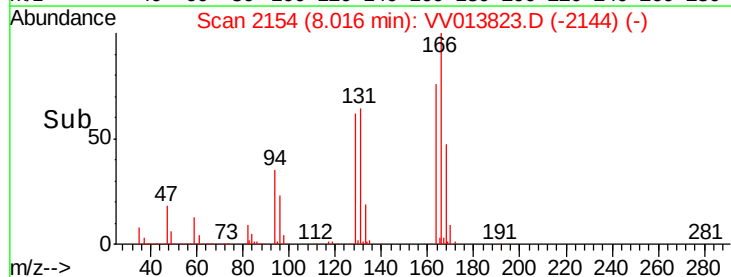
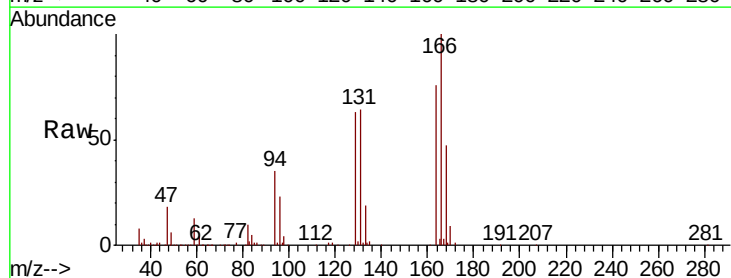
Instrument :
MSVOA_V
ClientSampleId :

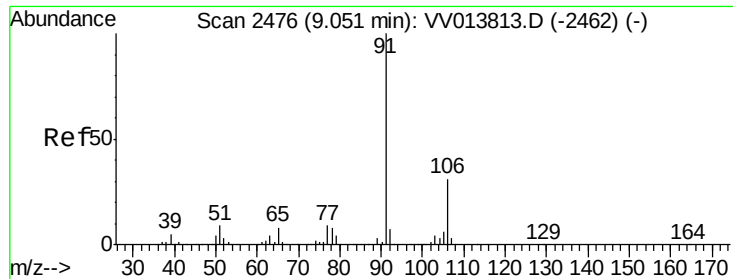
Tot Ion: 43 Resp: 24365
Ion Ratio Lower Upper
43 100
58 41.4 43.2 64.8#
57 35.4 15.4 23.2#
100 3.0 10.4 15.6#



#49
Dibromochloromethane
Concen: 3.941 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.27 min
Lab File: VV013823.D
Acq: 27 Nov 2019 14:50

Tgt Ion: 129 Resp: 71778
Ion Ratio Lower Upper
129 100
127 0.0 55.7 103.5#

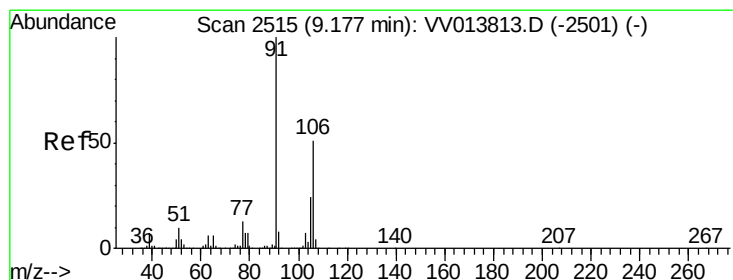
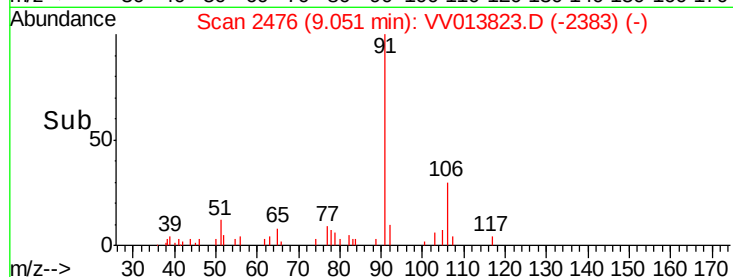
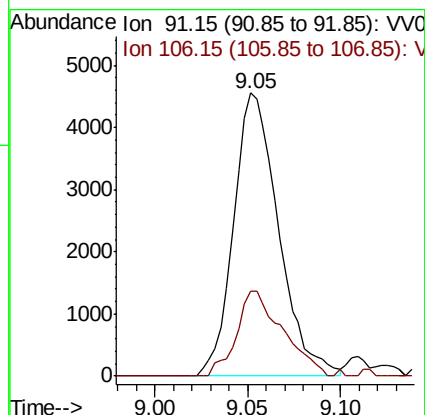
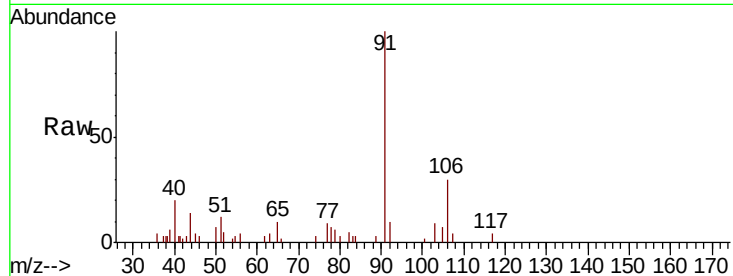




#52
Ethylbenzene
Concen: 0.085 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. 0.00 min
Lab File: VV013823.D
Acq: 27 Nov 2019 14:50

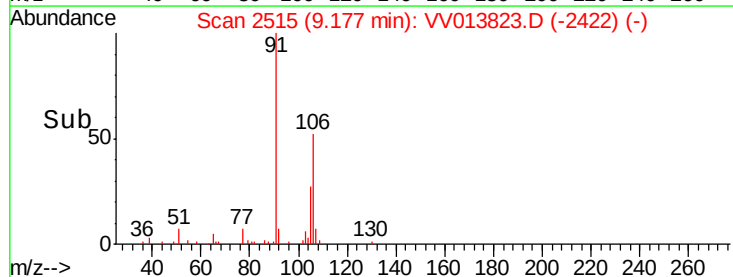
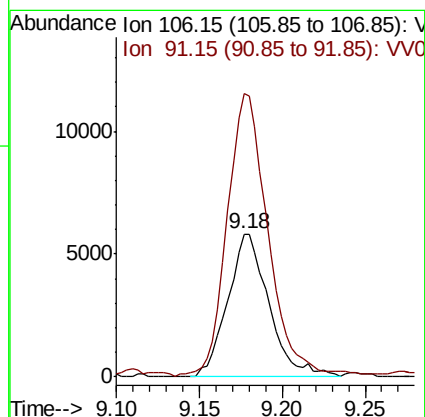
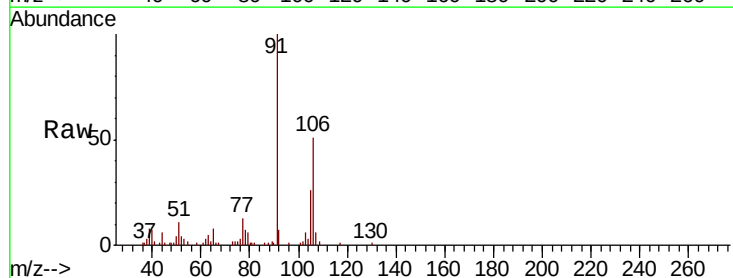
Instrument :
MSVOA_V
ClientSampled :

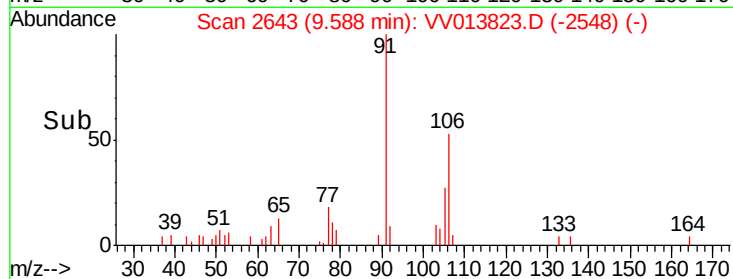
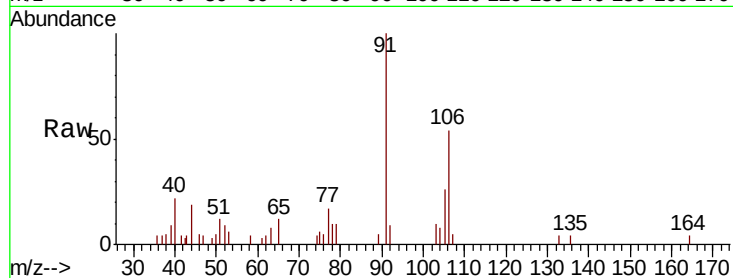
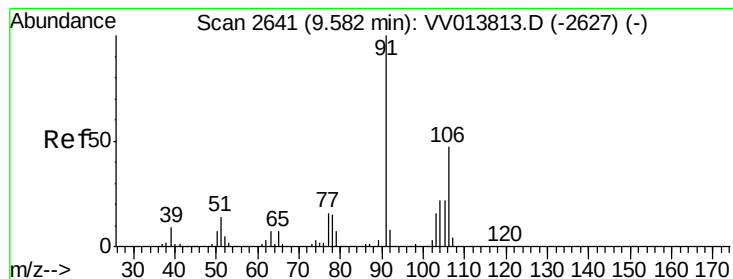
Tot Ion: 91 Resp: 7680
Ion Ratio Lower Upper
91 100
106 30.0 22.1 41.1



#53
m,p-xylene
Concen: 0.293 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. 0.00 min
Lab File: VV013823.D
Acq: 27 Nov 2019 14:50

Tgt Ion: 106 Resp: 10082
Ion Ratio Lower Upper
106 100
91 197.7 139.9 259.9





#54

o-xylene

Concen: 0.089 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.01 min

Lab File: VV013823.D

Acq: 27 Nov 2019 14:50

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 2979

Ion Ratio Lower Upper

106 100

91 184.5 145.5 270.3

