

Data File : VV013402.D
Acq On : 29 Oct 2019 18:17
Operator : SY/MD
Sample : K5597-09MS
Misc : 25.0ML/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
GAQD9MS

Quant Time: Oct 30 02:54:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR102919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 30 02:50:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	344946	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	367710	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	188353	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	156734	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.58	69	127078	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.60%
11) 1,1-Dichloroethene-d2	2.13	63	243503	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.40%
20) 2-Butanone-d5	3.96	46	411126	55.09	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.18%
24) Chloroform-d	4.40	84	304074	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.08	65	168308	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.00%
32) Benzene-d6	5.10	84	650825	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
36) 1,2-Dichloropropane-d6	6.11	67	203405	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.00%
41) Toluene-d8	7.36	98	545339	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.60%
43) trans-1,3-Dichloropropene-	7.66	79	67812	4.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.40%
46) 2-Hexanone-d5	8.14	63	235891	49.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.46%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	131547	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	206072	5.45	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.00%

Target Compounds

					Qvalue	
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2511	0.091	ug/L #	39
12) 1,1-Dichloroethene	2.14	96	91685	3.474	ug/L	91
14) Carbon disulfide	2.31	76	14870	0.186	ug/L #	91
18) trans-1,2-Dichloroethene	2.79	96	22182	0.631	ug/L	94
22) cis-1,2-Dichloroethene	3.96	96	86115	2.430	ug/L #	100
25) Chloroform	4.42	83	25136	0.368	ug/L	95
30) Cyclohexane	4.72	56	8431	0.147	ug/L	88
33) Benzene	5.14	78	633420	4.610	ug/L	100
34) Trichloroethene	5.96	95	206864	5.484	ug/L	97
35) Methylcyclohexane	6.18	83	6135	0.109	ug/L #	76
37) 1,2-Dichloropropane	6.12	63	21943	0.632	ug/L #	88
42) Toluene	7.43	91	568029	3.965	ug/L	100
47) Tetrachloroethene	8.02	164	153741	4.810	ug/L	95
48) 2-Hexanone	8.18	43	31367	2.268	ug/L #	79
49) Dibromochloromethane	8.02	129	130188	4.551	ug/L #	11
51) Chlorobenzene	8.92	112	398781	4.312	ug/L	100
52) Ethylbenzene	9.05	91	11010	0.072	ug/L	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV102919\
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 30 02:50:47 2019
Response via : Initial Calibration

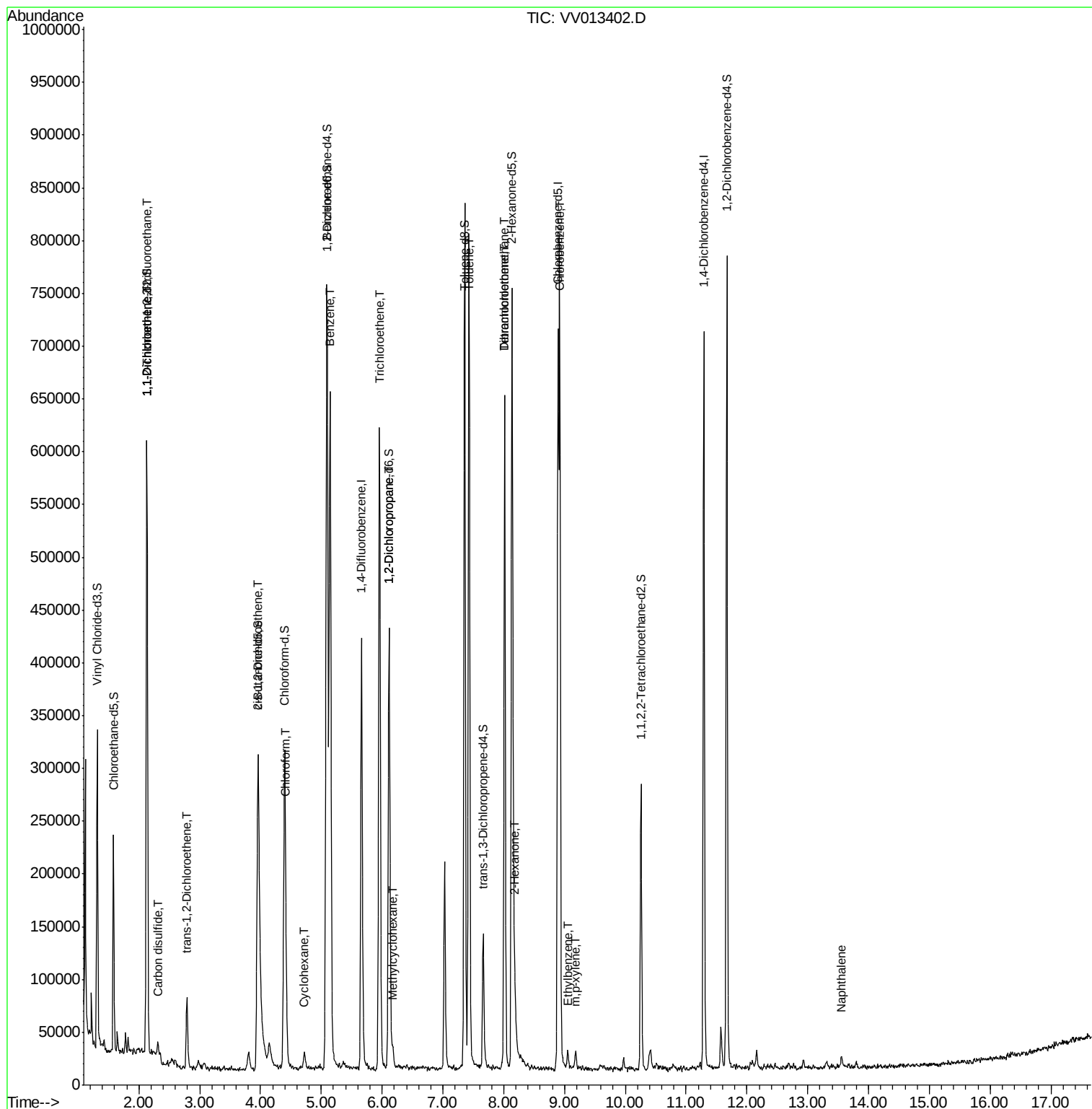
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-xylene	9.18	106	4656	0.083	ug/L	75
69) Naphthalene	13.55	128	9266	0.172	ug/L #	95

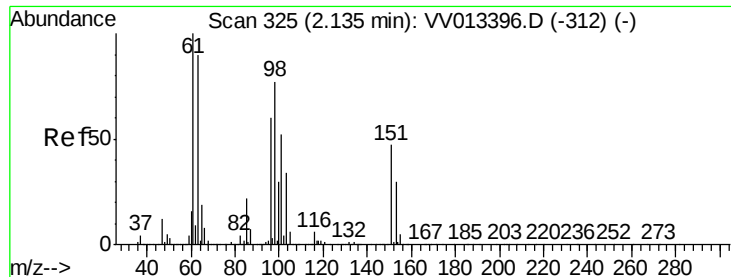
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.091 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

Instrument :

MSVOA_V

ClientSampleId :

GAQD9MS

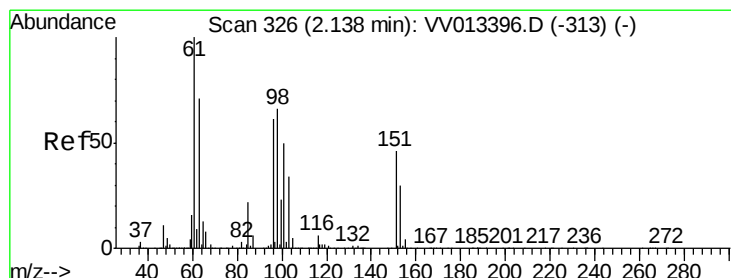
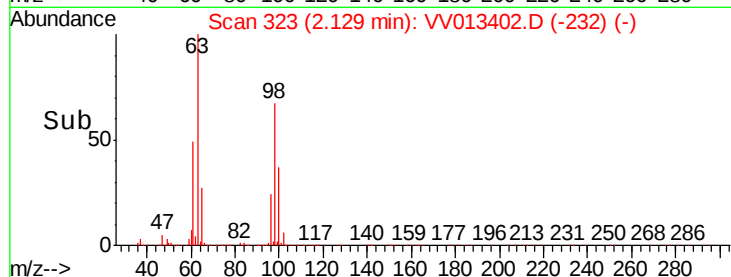
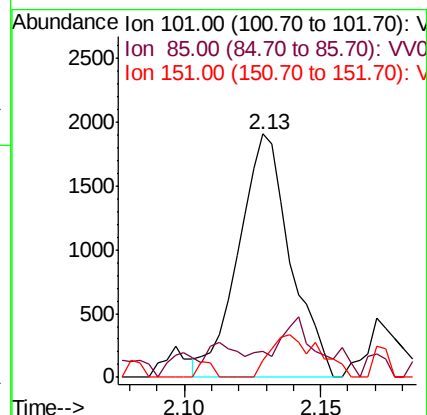
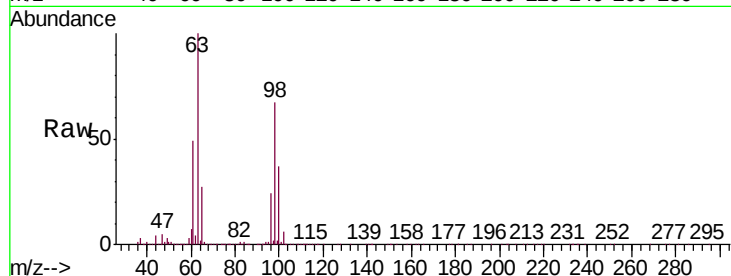
Tgt Ion: 101 Resp: 2511

Ion Ratio Lower Upper

101 100

85 20.6 33.0 49.4#

151 16.5 68.2 102.2#



#12

1,1-Dichloroethene

Concen: 3.474 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

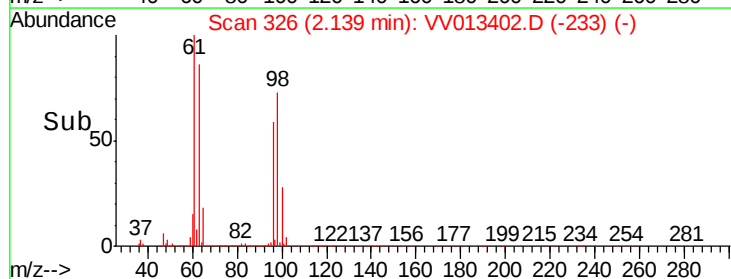
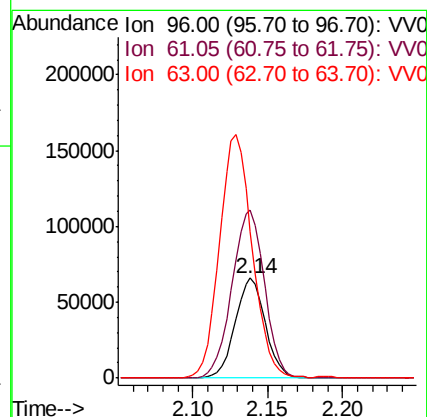
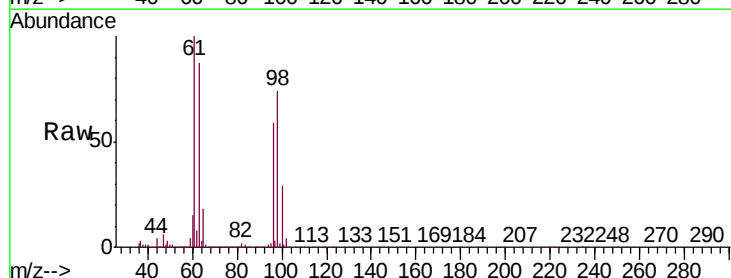
Tgt Ion: 96 Resp: 91685

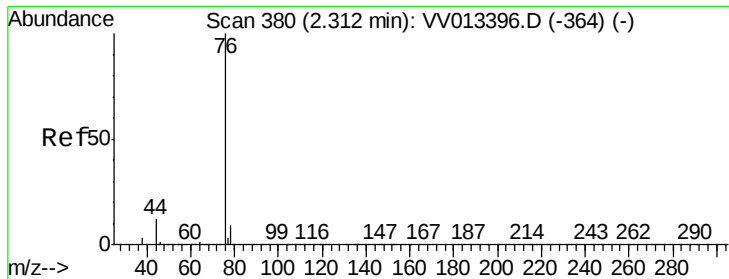
Ion Ratio Lower Upper

96 100

61 168.6 117.8 218.8

63 146.1 85.5 158.9





#14

Carbon disulfide

Concen: 0.186 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

Instrument :

MSVOA_V

ClientSampleId :

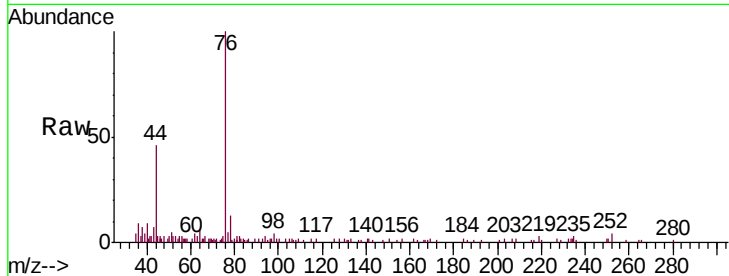
GAQD9MS

Tgt Ion: 76 Resp: 14870

Ion Ratio Lower Upper

76 100

78 12.6 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

10000

8000

6000

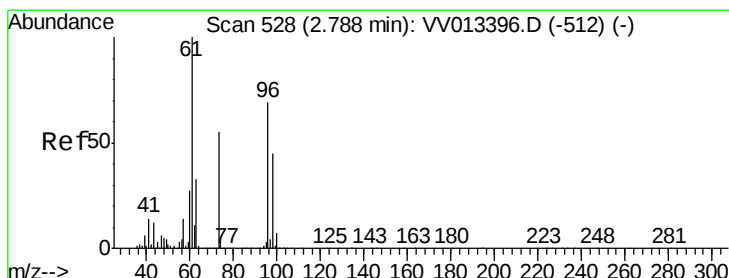
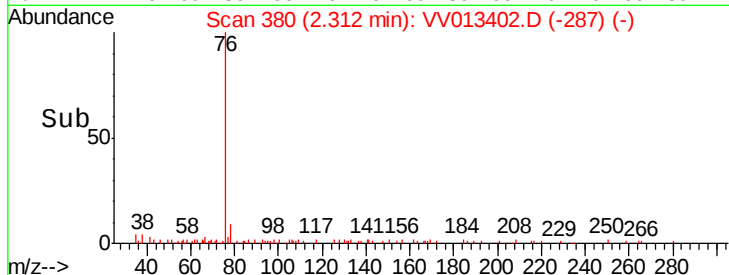
4000

2000

0

Time-->

2.25 2.30 2.35



#18

trans-1,2-Dichloroethene

Concen: 0.631 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

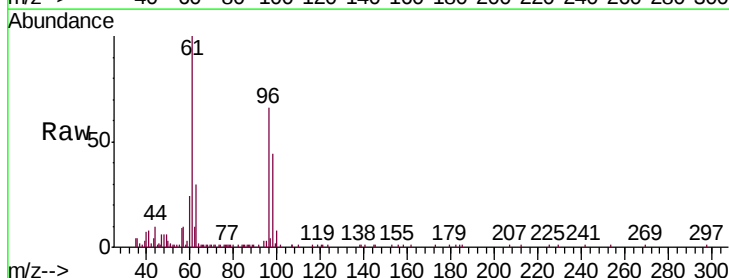
Tgt Ion: 96 Resp: 22182

Ion Ratio Lower Upper

96 100

61 150.7 100.1 185.9

98 66.6 44.2 82.0



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

25000

20000

15000

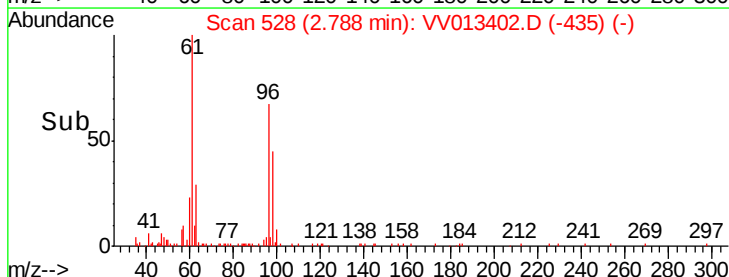
10000

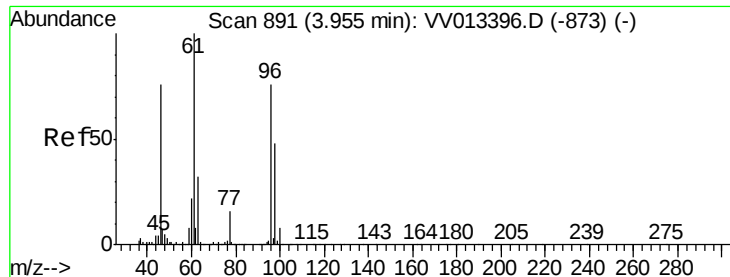
5000

0

Time-->

2.70 2.75 2.80 2.85



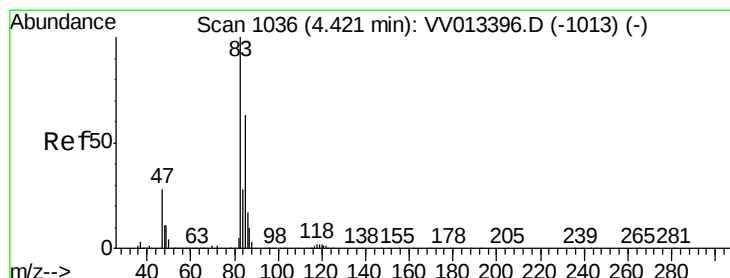
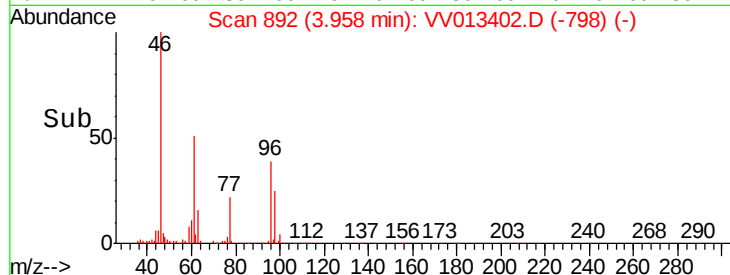
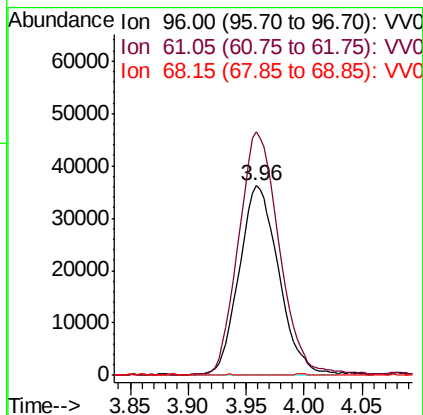
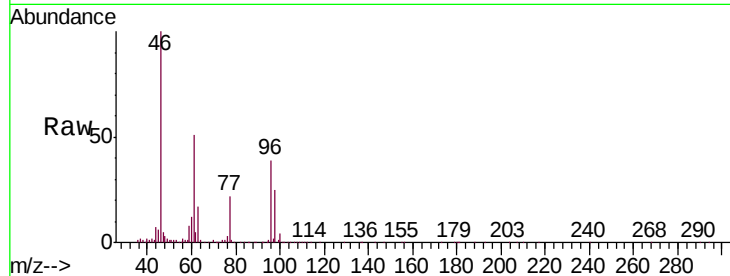


#22

cis-1,2-Dichloroethene
 Concen: 2.430 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013402.D
 Acq: 29 Oct 2019 18:17

Instrument :
 MSVOA_V
 ClientSampleId :
 GAQD9MS

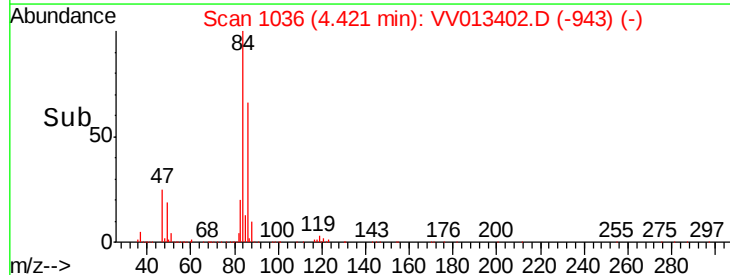
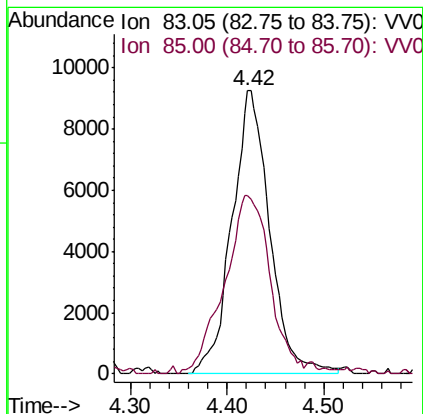
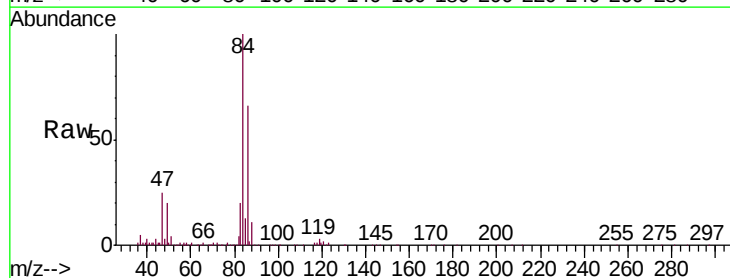
Tgt Ion: 96 Resp: 86115
 Ion Ratio Lower Upper
 96 100
 61 128.5 89.9 167.0
 68 0.0 0.1 0.3#

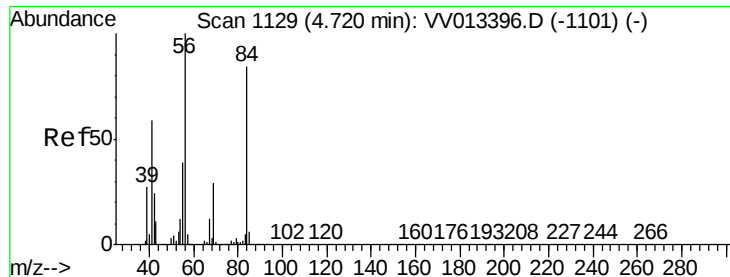


#25

Chloroform
 Concen: 0.368 ug/L
 RT: 4.42 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: VV013402.D
 Acq: 29 Oct 2019 18:17

Tgt Ion: 83 Resp: 25136
 Ion Ratio Lower Upper
 83 100
 85 62.9 46.5 86.5

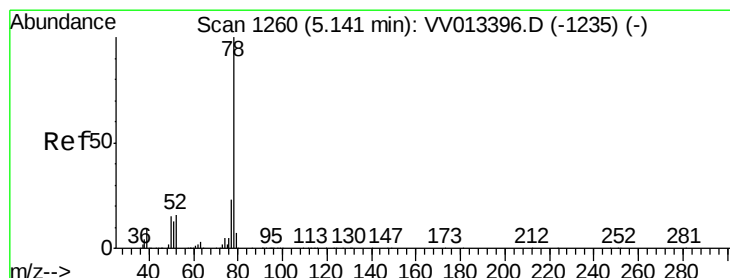
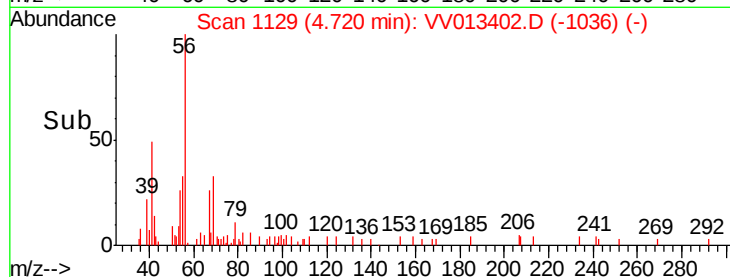
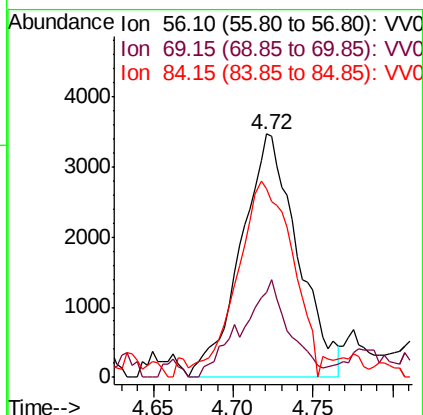
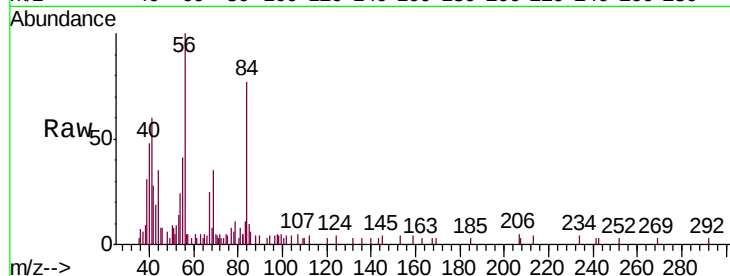




#30
Cyclohexane
Concen: 0.147 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VV013402.D
Acq: 29 Oct 2019 18:17

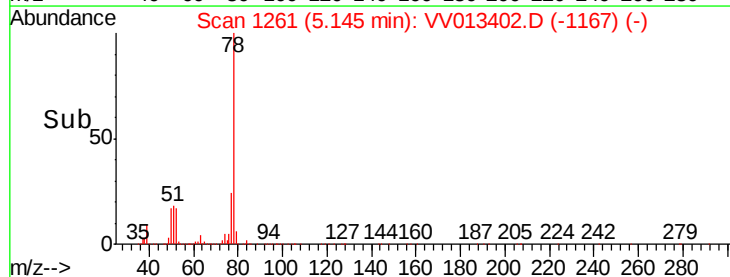
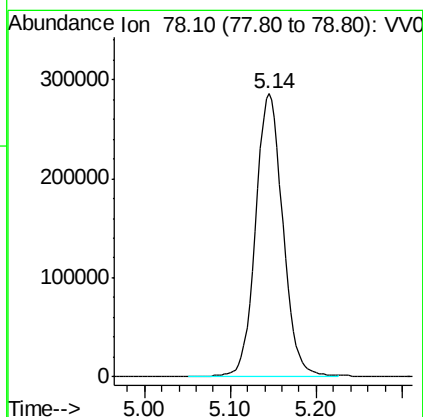
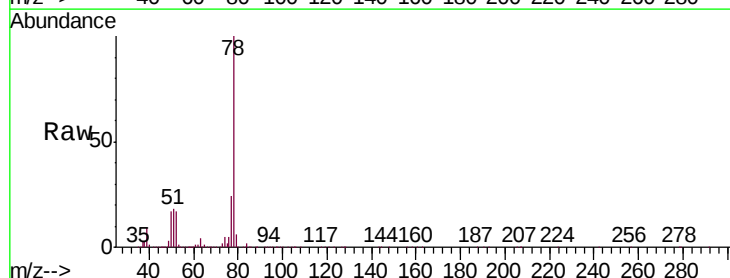
Instrument :
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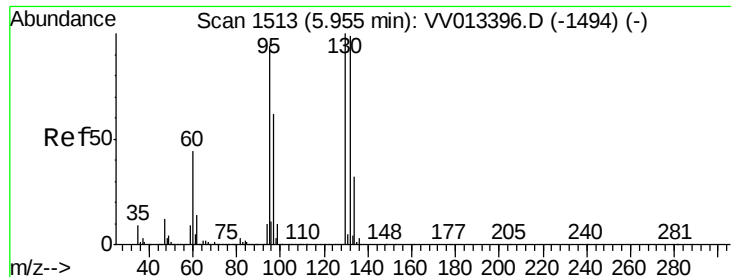
Tgt Ion: 56 Resp: 8431
Ion Ratio Lower Upper
56 100
69 33.9 22.7 34.1
84 71.0 65.5 98.3



#33
Benzene
Concen: 4.610 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV013402.D
Acq: 29 Oct 2019 18:17

Tgt Ion: 78 Resp: 633420





#34

Trichloroethene

Concen: 5.484 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

Instrument :

MSVOA_V

ClientSampleId :

GAQD9MS

Tgt Ion: 95 Resp: 206864

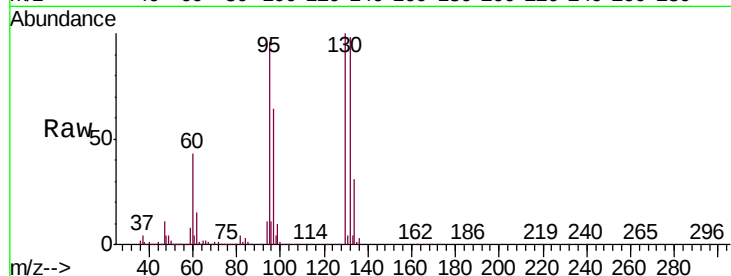
Ion Ratio Lower Upper

95 100

97 66.3 43.9 81.5

132 101.3 68.7 127.7

130 103.9 72.1 133.9

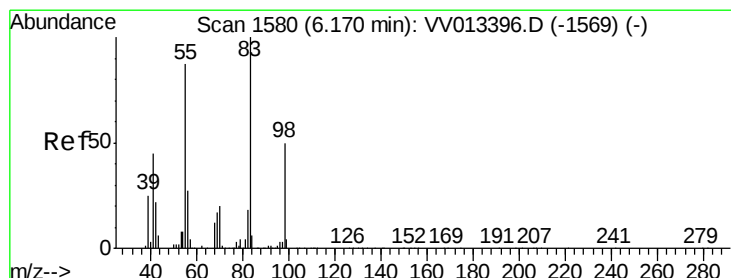
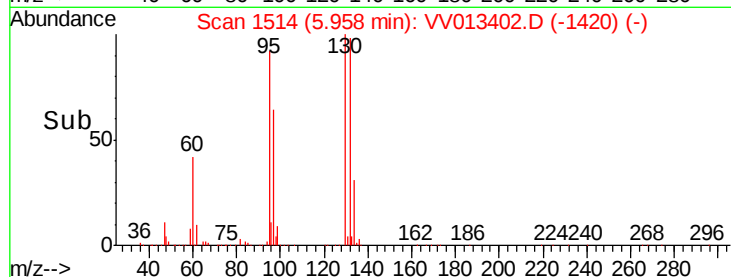
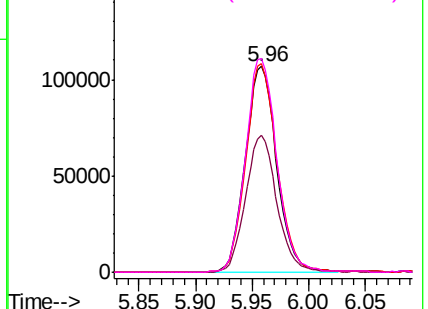


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#35

Methylcyclohexane

Concen: 0.109 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.01 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

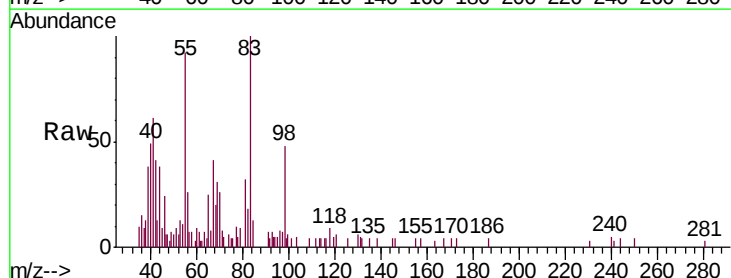
Tgt Ion: 83 Resp: 6135

Ion Ratio Lower Upper

83 100

55 113.4 66.0 99.0#

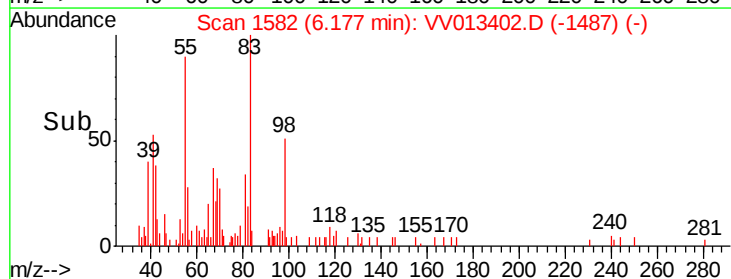
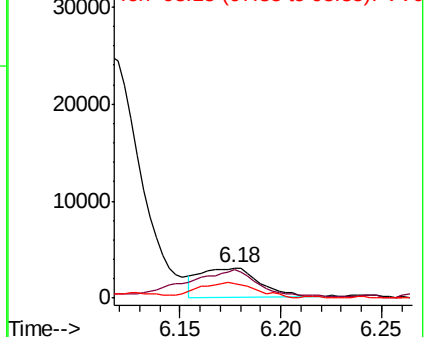
98 52.8 38.2 57.4

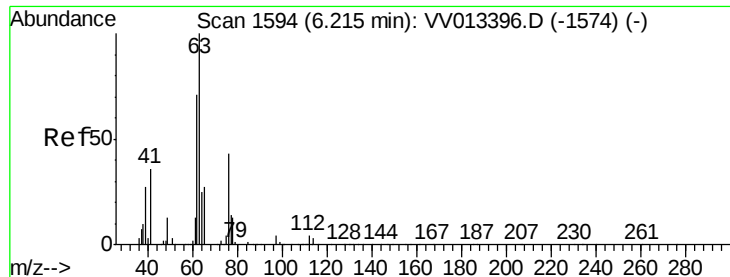


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

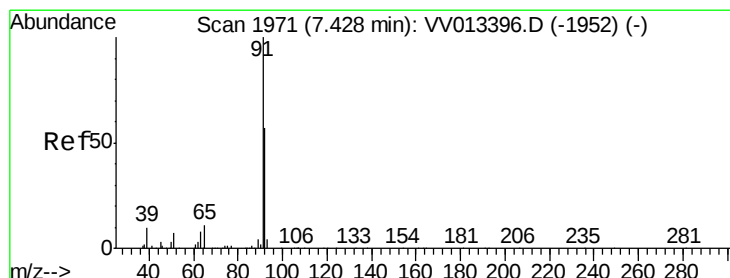
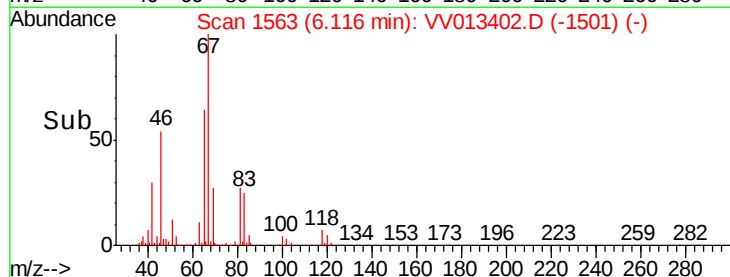
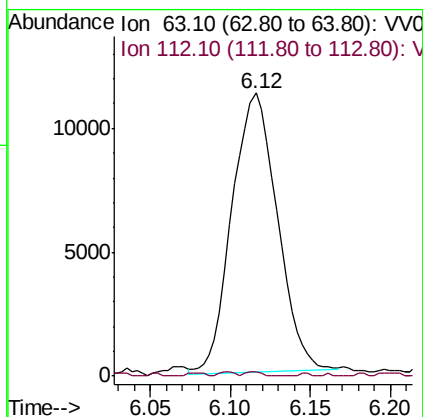
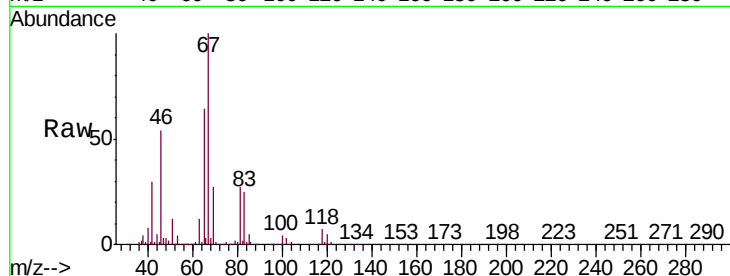




#37
 1,2-Dichloropropane
 Concen: 0.632 ug/L
 RT: 6.12 min Scan# 1563
 Delta R.T. -0.10 min
 Lab File: VV013402.D
 Acq: 29 Oct 2019 18:17

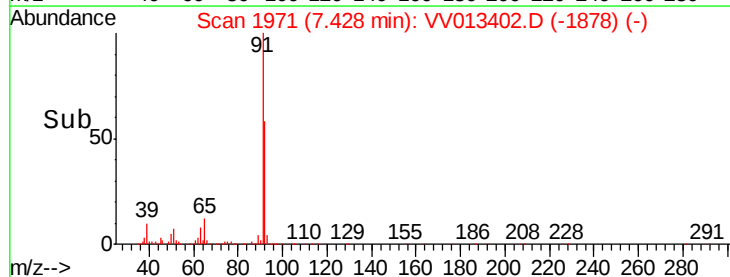
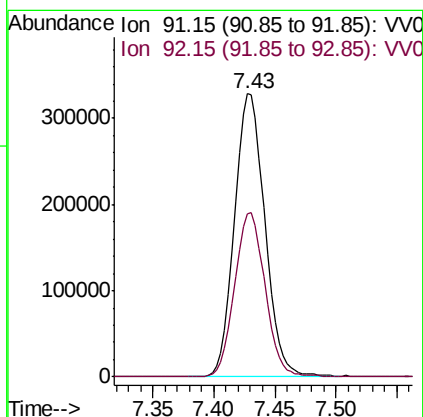
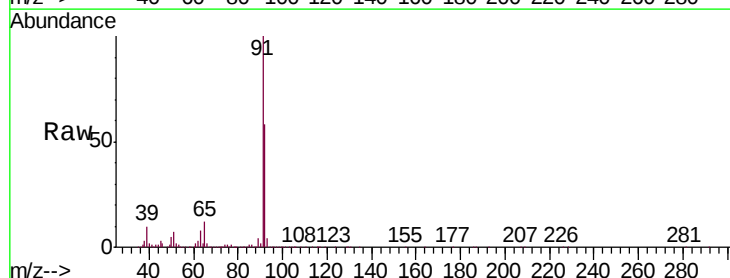
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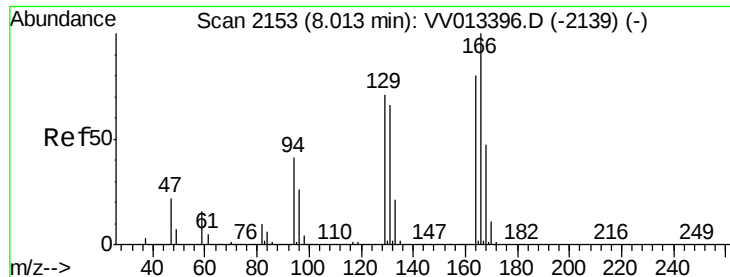
Tgt Ion: 63 Resp: 21943
 Ion Ratio Lower Upper
 63 100
 112 0.5 3.6 5.4#



#42
 Toluene
 Concen: 3.965 ug/L
 RT: 7.43 min Scan# 1971
 Delta R.T. 0.00 min
 Lab File: VV013402.D
 Acq: 29 Oct 2019 18:17

Tgt Ion: 91 Resp: 568029
 Ion Ratio Lower Upper
 91 100
 92 57.8 40.3 74.8





#47

Tetrachloroethene

Concen: 4.810 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

Instrument :

MSVOA_V

ClientSampleId :

GAQD9MS

Tgt Ion:164 Resp: 153741

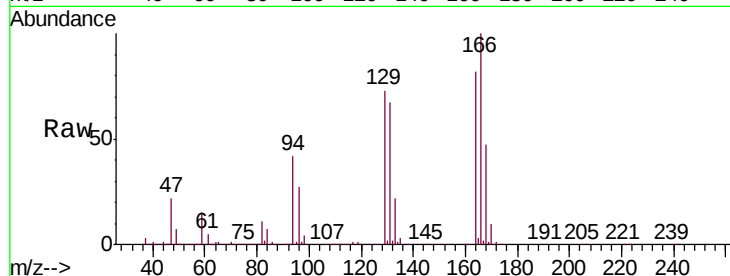
Ion Ratio Lower Upper

164 100

129 88.5 63.4 117.8

131 81.1 60.3 112.1

166 121.7 90.8 168.6

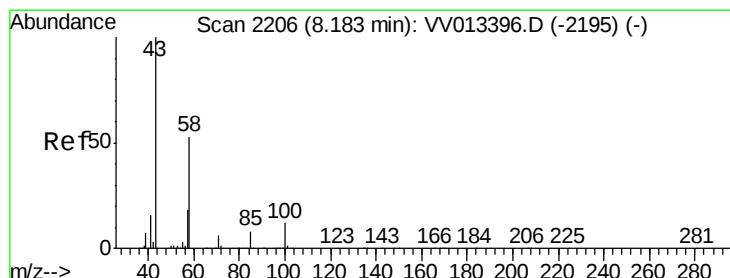
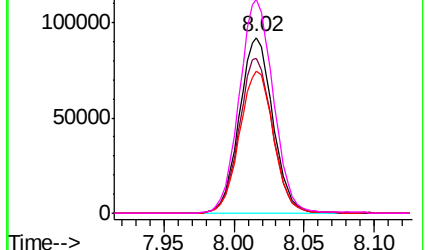
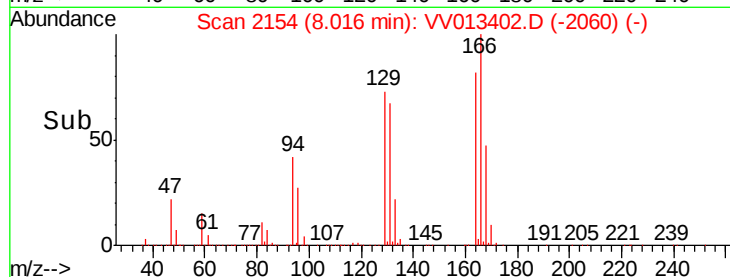


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.268 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

Tgt Ion: 43 Resp: 31367

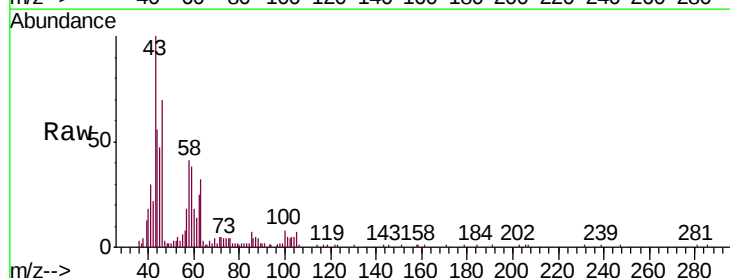
Ion Ratio Lower Upper

43 100

58 39.5 43.5 65.3#

57 2.5 14.3 21.5#

100 10.1 9.3 13.9

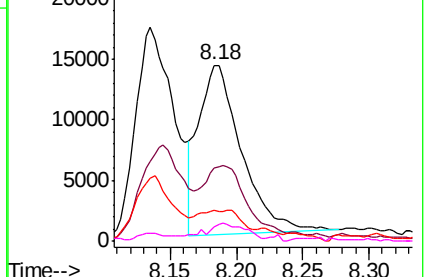
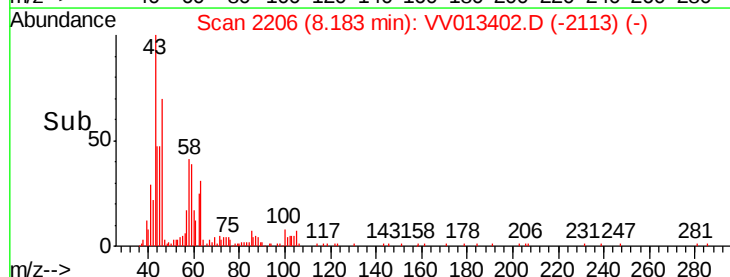


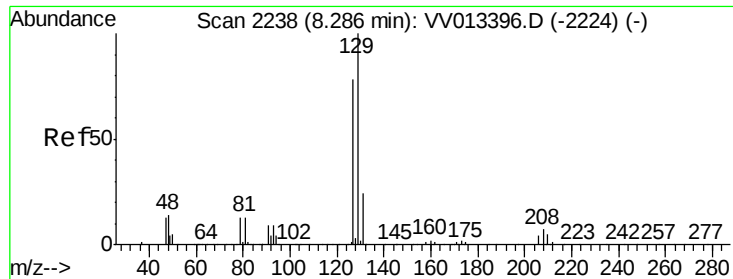
Abundance Ion 43.05 (42.75 to 43.75): VV0

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: 4.551 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

Instrument :

MSVOA_V

ClientSampleId :

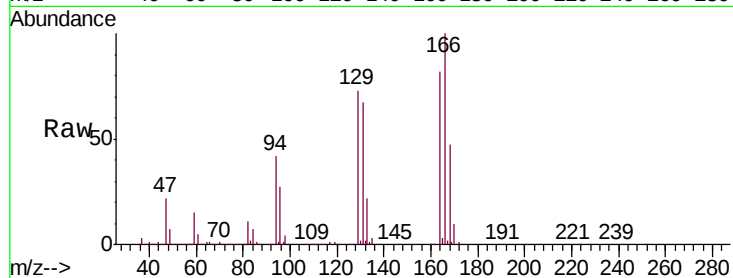
GAQD9MS

Tgt Ion:129 Resp: 130188

Ion Ratio Lower Upper

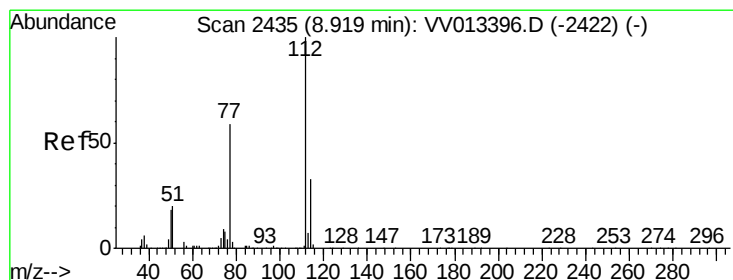
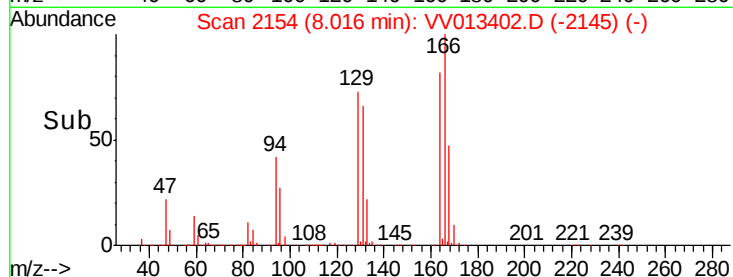
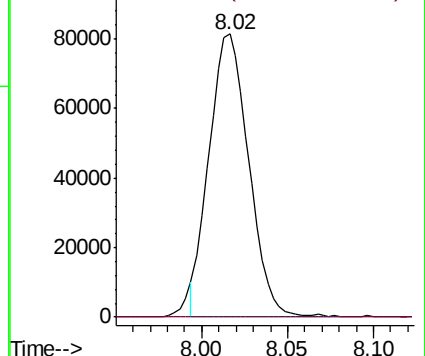
129 100

127 0.0 53.8 100.0#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#51

Chlorobenzene

Concen: 4.312 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

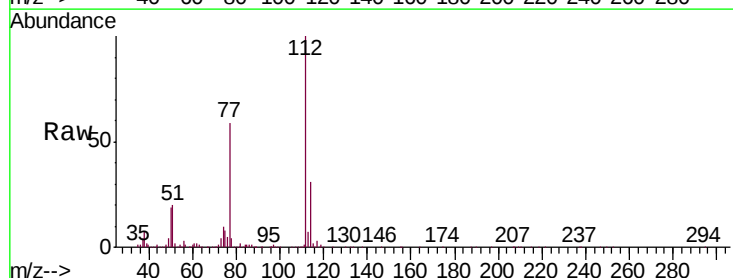
Tgt Ion:112 Resp: 398781

Ion Ratio Lower Upper

112 100

114 31.3 22.2 41.2

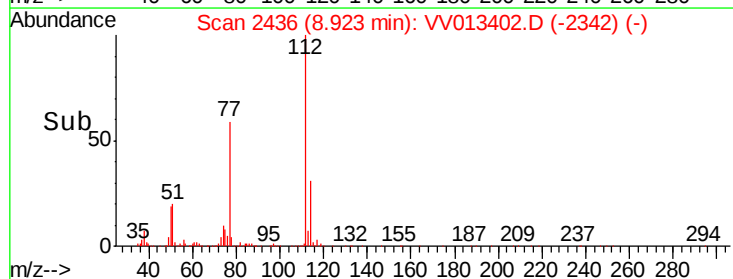
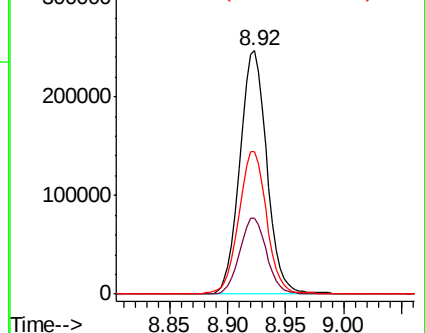
77 58.6 46.7 70.1

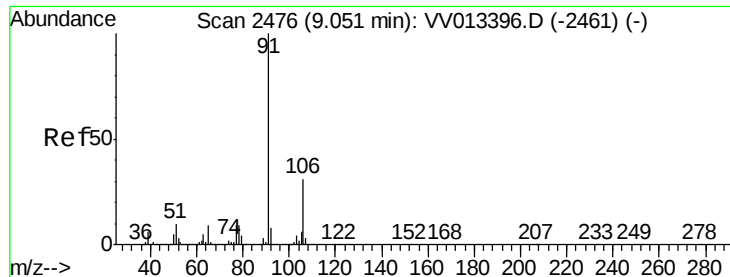


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 0.072 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

Instrument :

MSVOA_V

ClientSampleId :

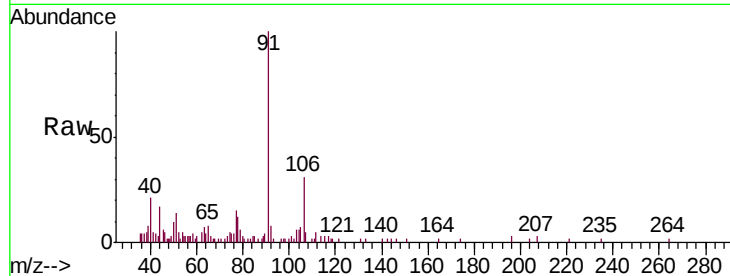
GAQD9MS

Tgt Ion: 91 Resp: 11010

Ion Ratio Lower Upper

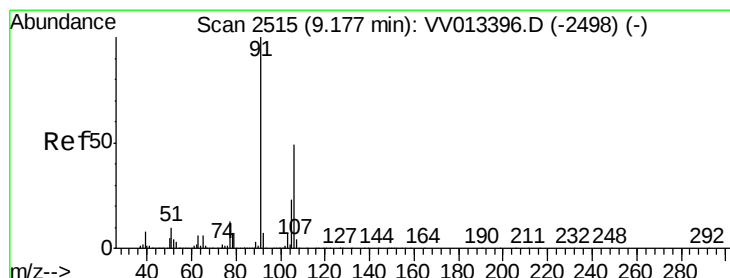
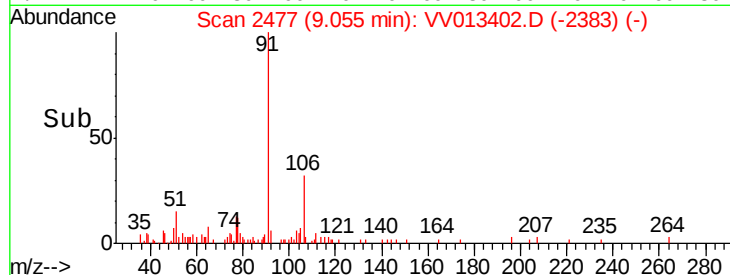
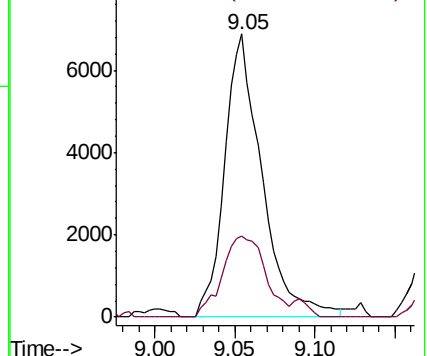
91 100

106 28.8 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-xylene

Concen: 0.083 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013402.D

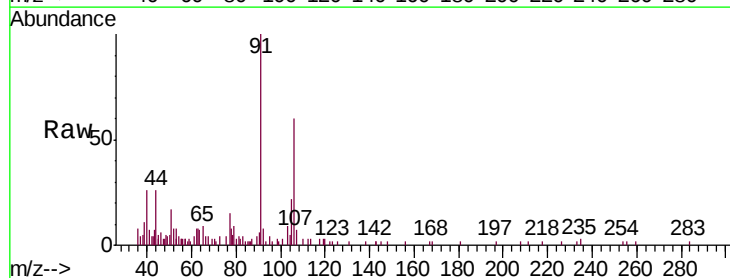
Acq: 29 Oct 2019 18:17

Tgt Ion: 106 Resp: 4656

Ion Ratio Lower Upper

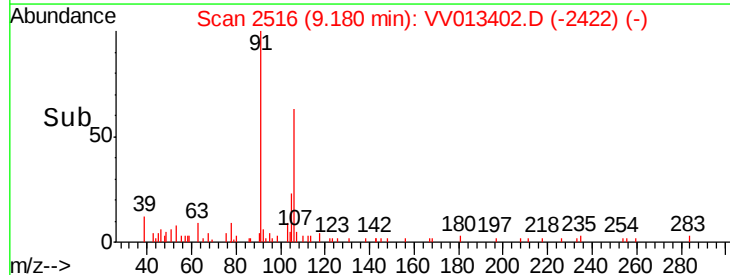
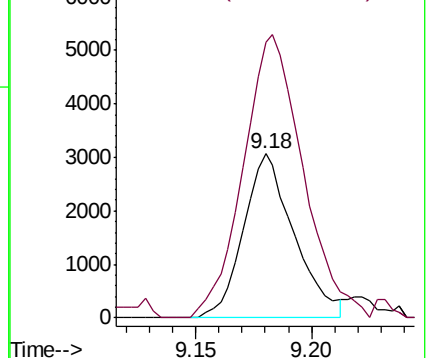
106 100

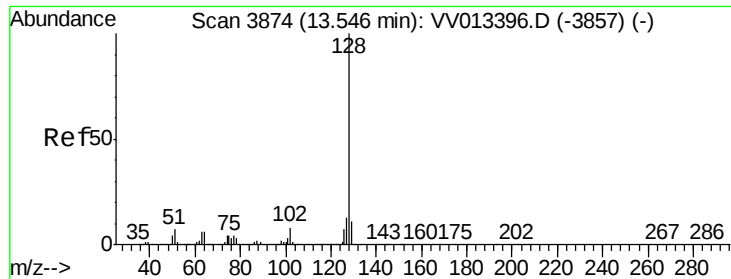
91 168.1 144.3 267.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#69

Naphthalene

Concen: 0.172 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.01 min

Lab File: VV013402.D

Acq: 29 Oct 2019 18:17

Instrument :

MSVOA_V

ClientSampleId :

GAQD9MS

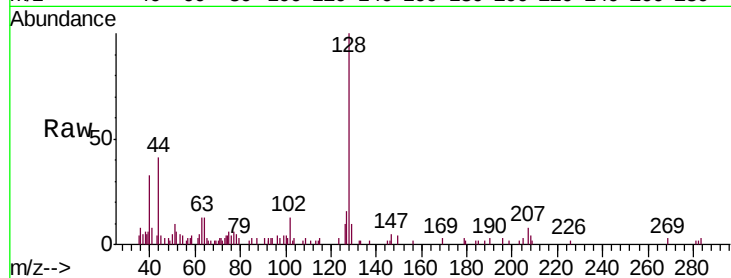
Tgt Ion:128 Resp: 9266

Ion Ratio Lower Upper

128 100

129 7.2 8.7 13.1#

127 12.9 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

