

Data File : VV012312.D
Acq On : 20 Aug 2019 15:06
Operator : SY/MD
Sample : K4373-11DL 10X
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0AB2DL

Quant Time: Aug 21 01:18:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR081919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Aug 21 01:13:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	135841	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	126998	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	72325	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25486	3.67	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.40%
7) Chloroethane-d5	1.58	69	20832	4.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.20%
11) 1,1-Dichloroethene-d2	2.13	63	44260	3.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.20%
20) 2-Butanone-d5	3.94	46	16542	8.84	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	17.68%#
24) Chloroform-d	4.40	84	76243	4.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.20%
26) 1,2-Dichloroethane-d4	5.08	65	47052	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.10	84	172278	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.60%
36) 1,2-Dichloropropane-d6	6.12	67	45759	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.40%
41) Toluene-d8	7.36	98	168115	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.40%
43) trans-1,3-Dichloropropene-	7.66	79	21017	5.15	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.00%
46) 2-Hexanone-d5	8.13	63	66131	51.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.74%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	34381	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	73227	5.03	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.60%

Target Compounds

					Qvalue
6) Bromomethane	1.53	94	569	0.124 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	492	0.071 ug/L #	14
14) Carbon disulfide	2.32	76	1438	0.083 ug/L	96
16) Methylene chloride	2.53	84	1107	0.171 ug/L	85
21) 2-Butanone	4.00	43	20342	10.952 ug/L #	64
25) Chloroform	4.42	83	13901	0.710 ug/L	94
27) 1,2-Dichloroethane	5.15	62	2849	0.255 ug/L #	74
33) Benzene	5.14	78	280586	7.987 ug/L	100
35) Methylcyclohexane	6.12	83	12851	0.833 ug/L #	20
37) 1,2-Dichloropropane	6.11	63	5965	0.726 ug/L #	81
39) cis-1,3-Dichloropropene	7.04	75	1631	0.125 ug/L	95
42) Toluene	7.43	91	337959	8.692 ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	640	0.061 ug/L #	32
45) 1,1,2-Trichloroethane	7.74	97	1985	0.315 ug/L #	17
48) 2-Hexanone	8.13	43	9307	2.996 ug/L #	83
52) Ethylbenzene	9.05	91	552672	12.704 ug/L	98
53) m,p-xylene	9.18	106	200609	11.812 ug/L	95

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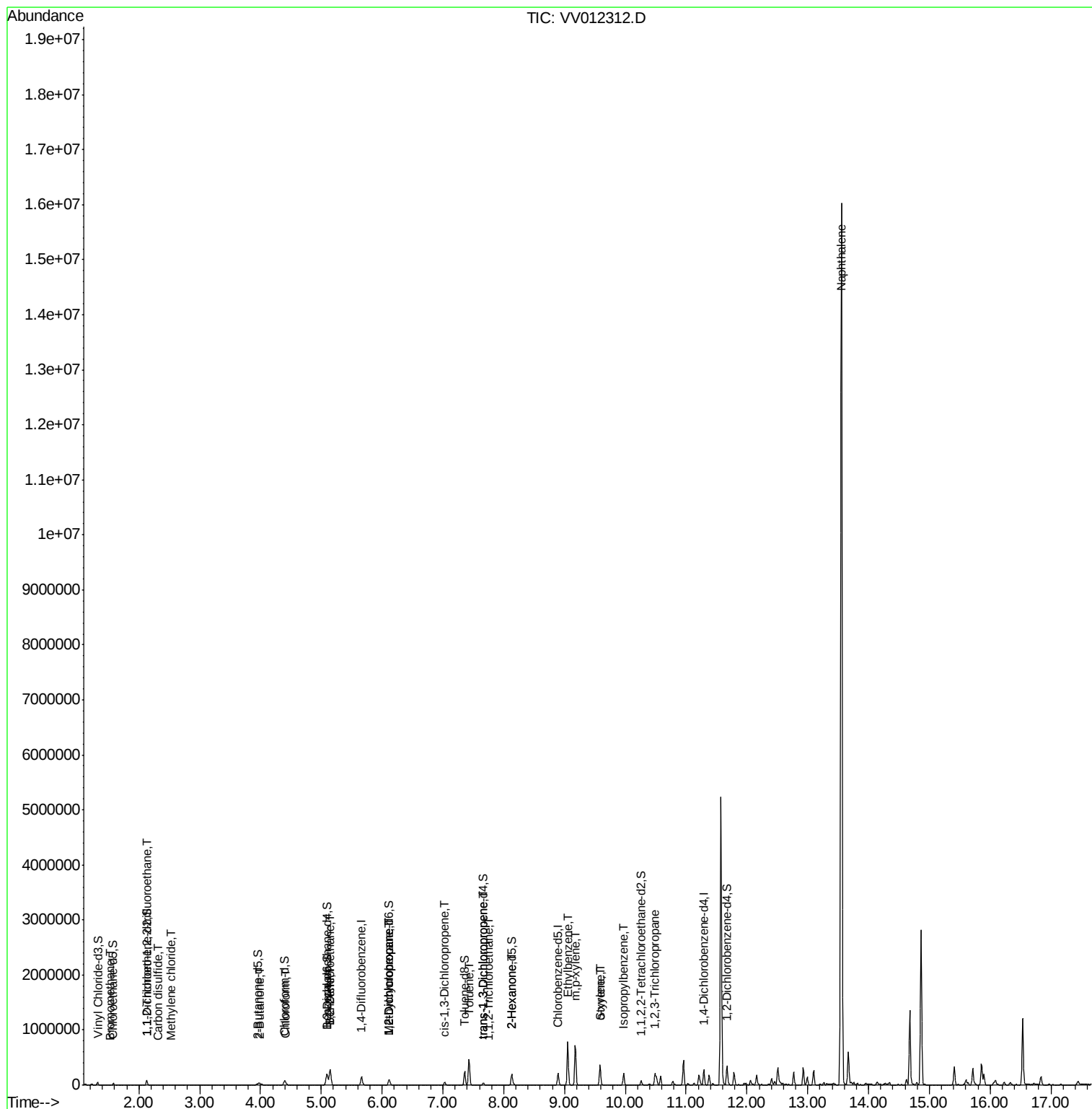
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.59	106	97775	5.986	ug/L	100
55) Styrene	9.59	104	8736	0.317	ug/L #	1
56) Isopropylbenzene	9.97	105	143241	3.177	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	1280	0.251	ug/L #	1
69) Naphthalene	13.56	128	12604926	624.151	ug/L	96

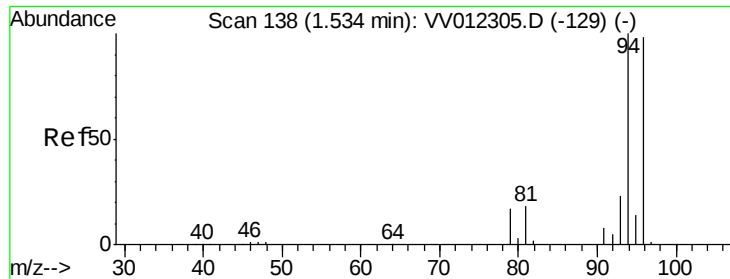
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.124 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Instrument :

MSVOA_V

ClientSampleId :

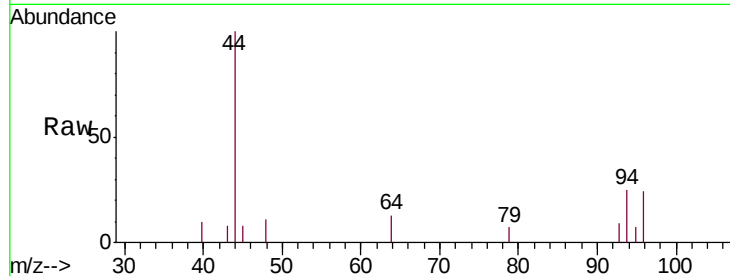
C0AB2DL

Tgt Ion: 94 Resp: 569

Ion Ratio Lower Upper

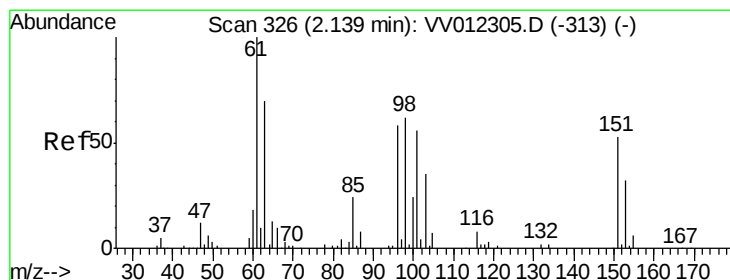
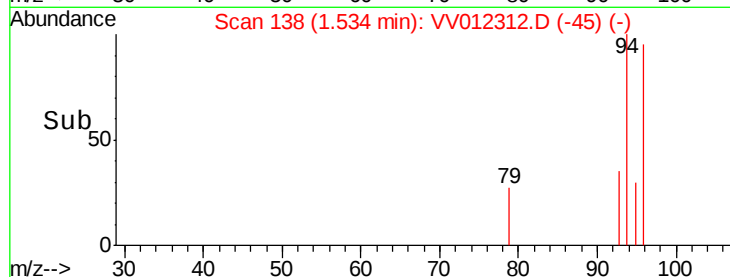
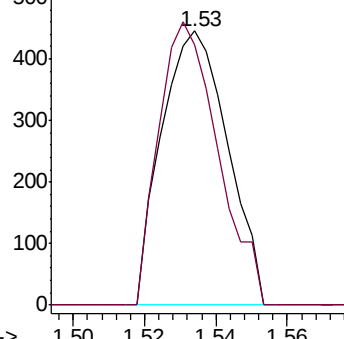
94 100

96 95.1 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



#10

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

Concen: 0.071 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

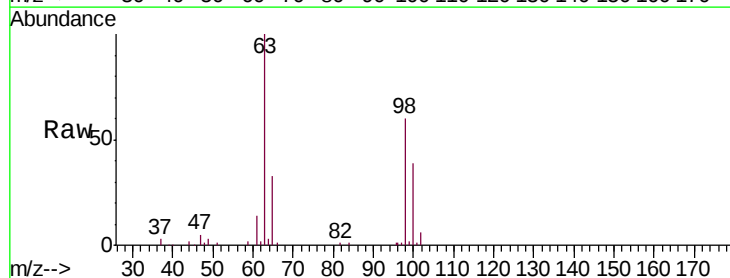
Tgt Ion: 101 Resp: 492

Ion Ratio Lower Upper

101 100

85 0.0 34.9 52.3#

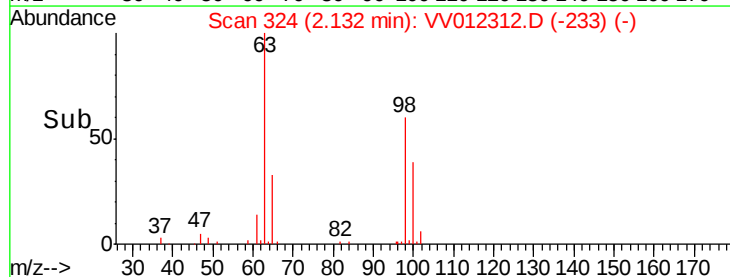
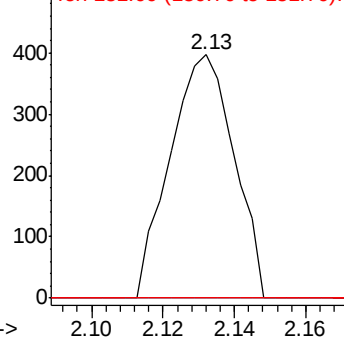
151 0.0 71.5 107.3#

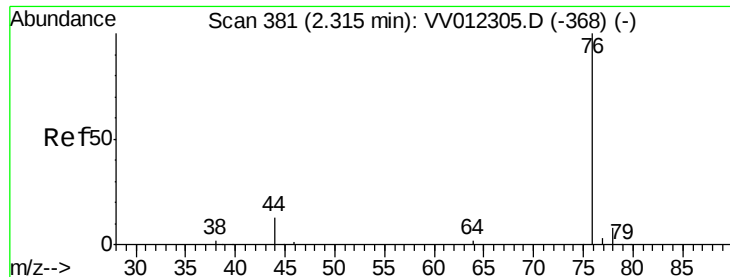


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V





#14

Carbon disulfide

Concen: 0.083 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Instrument :

MSVOA_V

ClientSampleId :

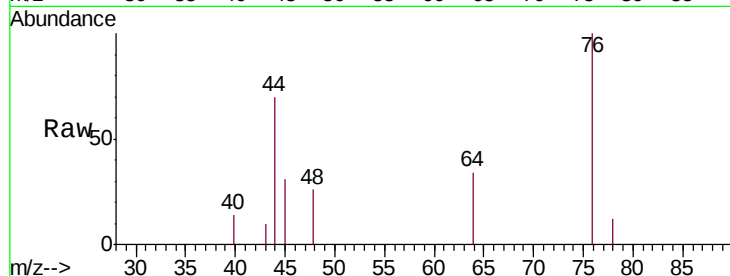
C0AB2DL

Tgt Ion: 76 Resp: 1438

Ion Ratio Lower Upper

76 100

78 12.0 8.3 12.5



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

1200

1000

800

600

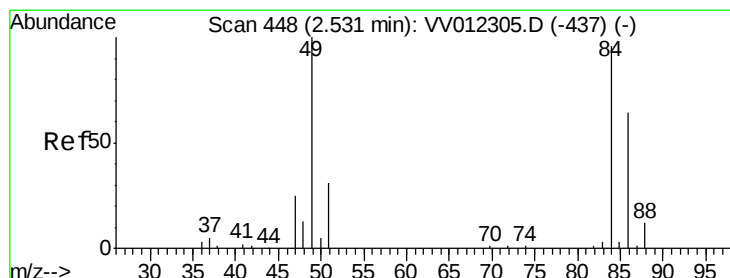
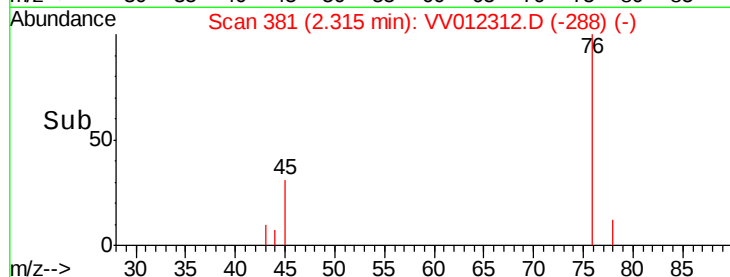
400

200

0

Time-->

2.30 2.32 2.35



#16

Methylene chloride

Concen: 0.171 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

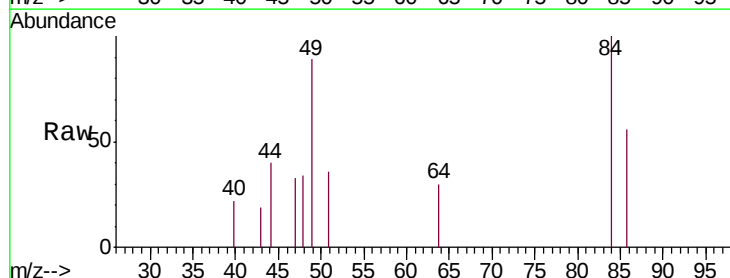
Tgt Ion: 84 Resp: 1107

Ion Ratio Lower Upper

84 100

86 56.3 49.5 91.9

49 88.9 72.1 133.9



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

1000

800

600

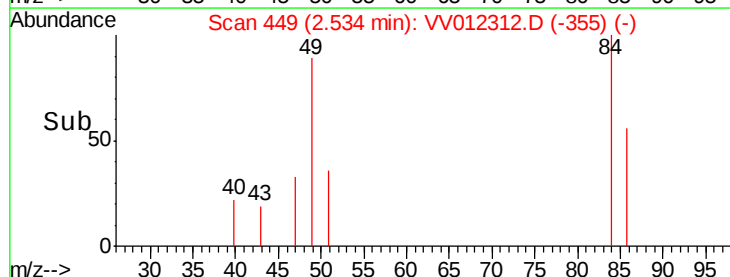
400

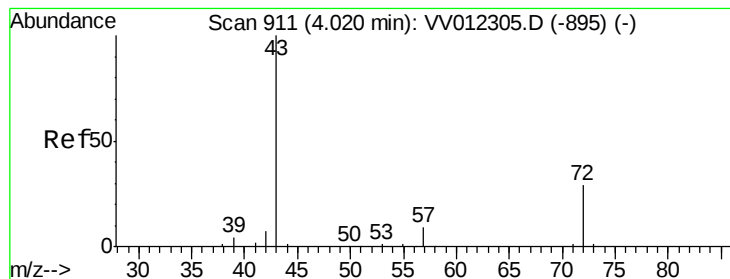
200

0

Time-->

2.50 2.52 2.54 2.56





#21

2-Butanone

Concen: 10.952 ug/L

RT: 4.00 min Scan# 906

Delta R.T. -0.02 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Instrument :

MSVOA_V

ClientSampleId :

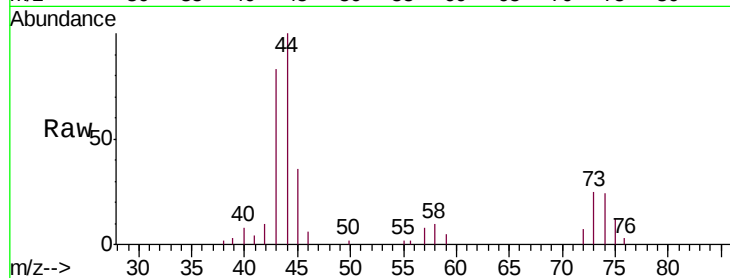
C0AB2DL

Tgt Ion: 43 Resp: 20342

Ion Ratio Lower Upper

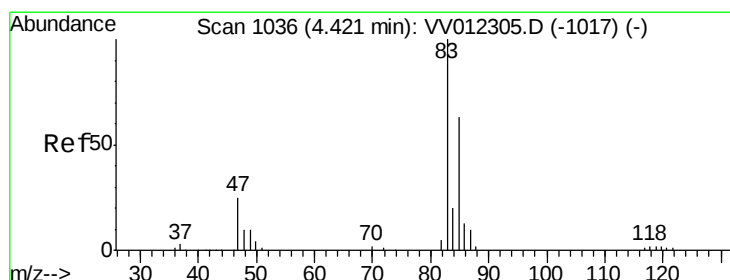
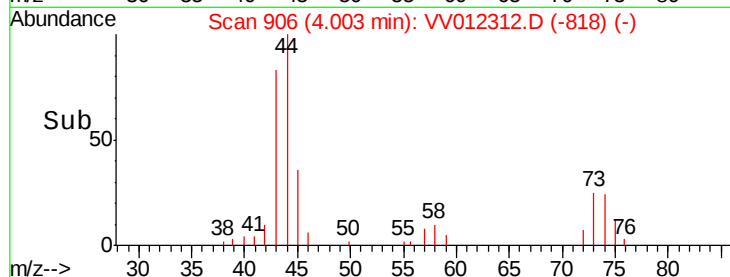
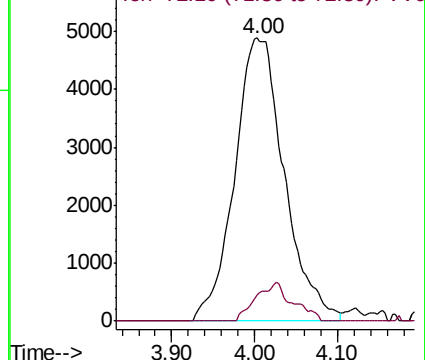
43 100

72 10.1 14.8 44.4#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 72.10 (71.80 to 72.80): VV0



#25

Chloroform

Concen: 0.710 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV012312.D

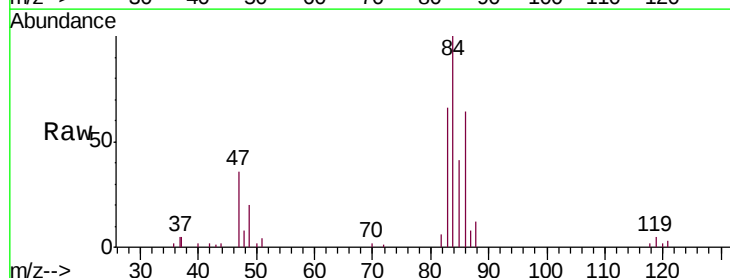
Acq: 20 Aug 2019 15:06

Tgt Ion: 83 Resp: 13901

Ion Ratio Lower Upper

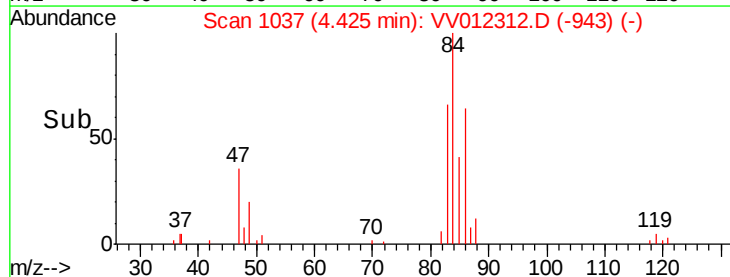
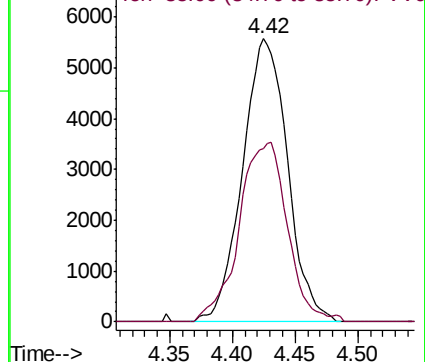
83 100

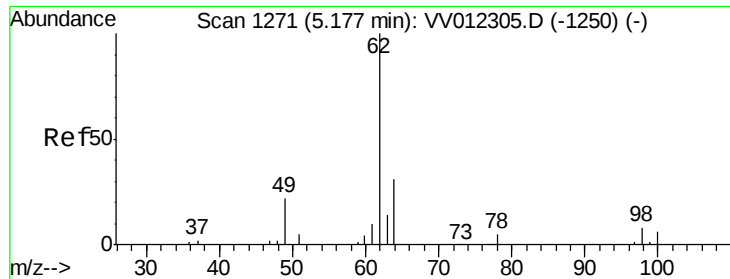
85 61.4 46.1 85.5



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

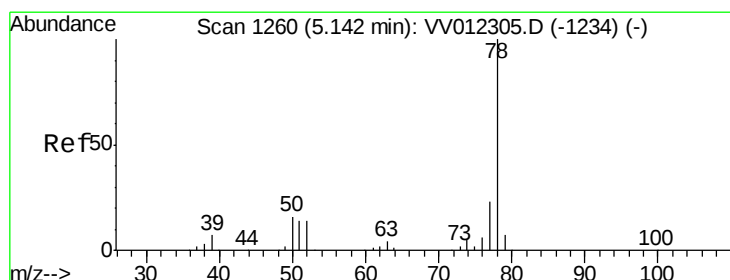
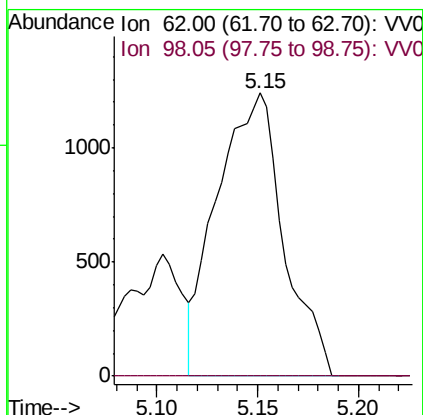
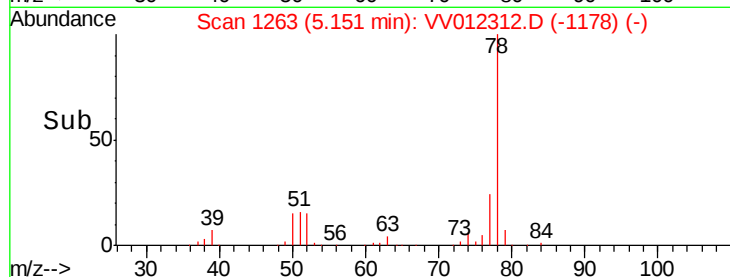
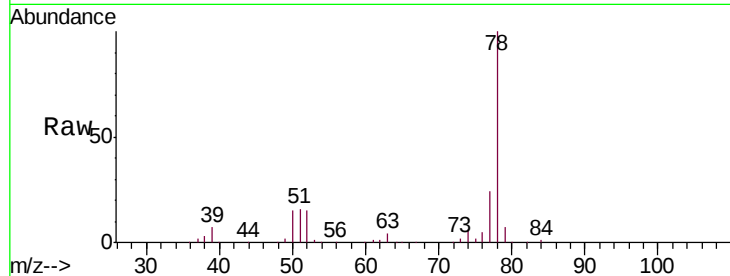




#27
 1,2-Dichloroethane
 Concen: 0.255 ug/L
 RT: 5.15 min Scan# 1263
 Delta R.T. -0.03 min
 Lab File: VV012312.D
 Acq: 20 Aug 2019 15:06

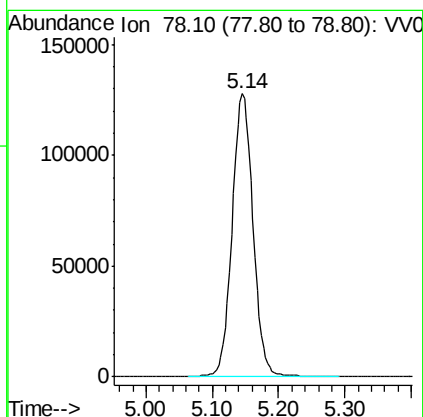
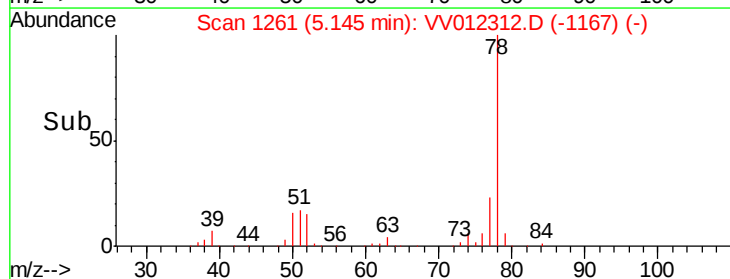
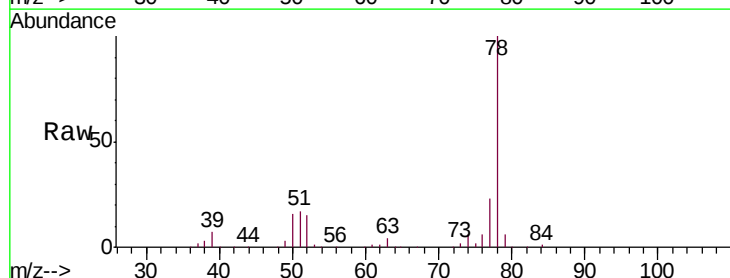
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AB2DL

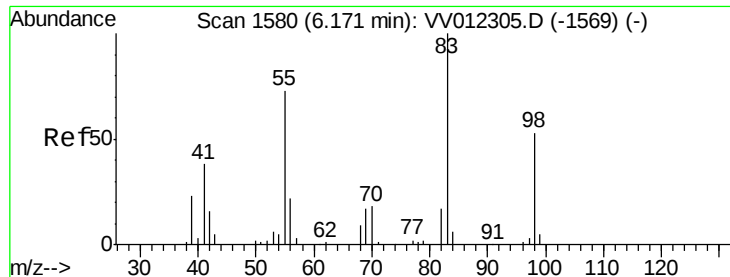
Tgt Ion: 62 Resp: 2849
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



#33
 Benzene
 Concen: 7.987 ug/L
 RT: 5.14 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VV012312.D
 Acq: 20 Aug 2019 15:06

Tgt Ion: 78 Resp: 280586





#35

Methylcyclohexane

Concen: 0.833 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.05 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Instrument :

MSVOA_V

ClientSampleId :

C0AB2DL

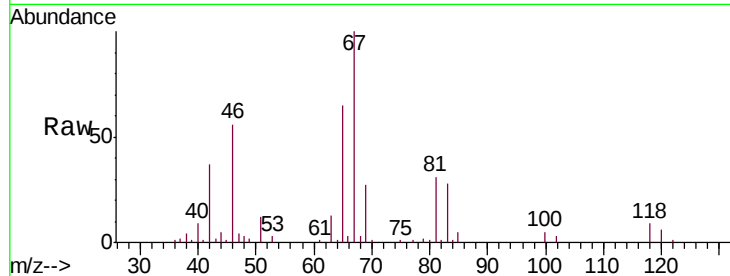
Tgt Ion: 83 Resp: 12851

Ion Ratio Lower Upper

83 100

55 0.7 57.3 85.9#

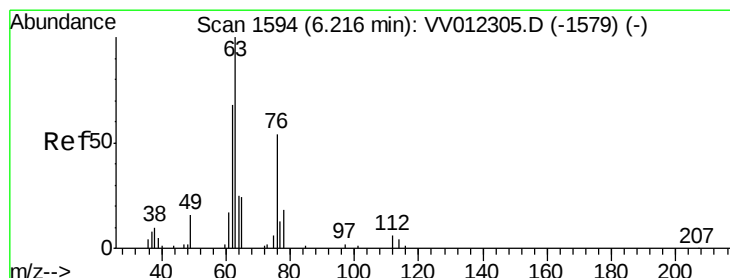
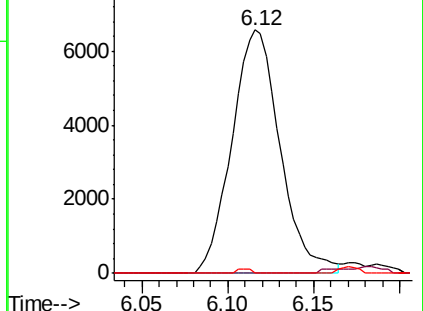
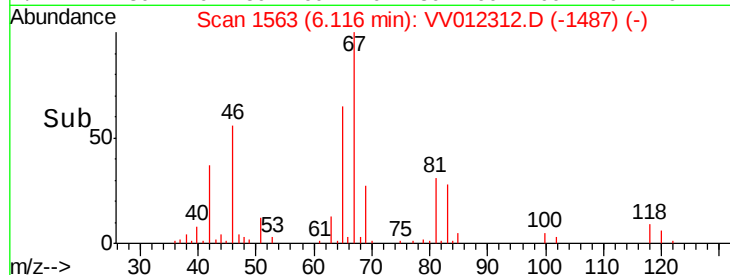
98 0.5 40.3 60.5#



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: 0.726 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.10 min

Lab File: VV012312.D

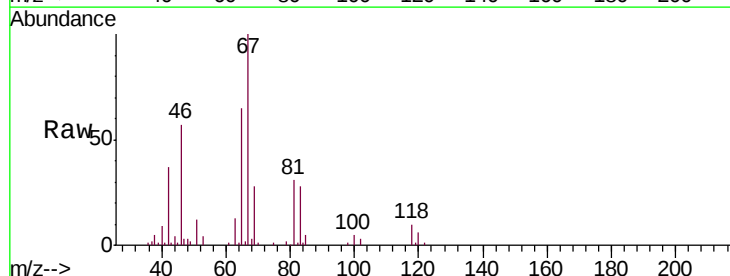
Acq: 20 Aug 2019 15:06

Tgt Ion: 63 Resp: 5965

Ion Ratio Lower Upper

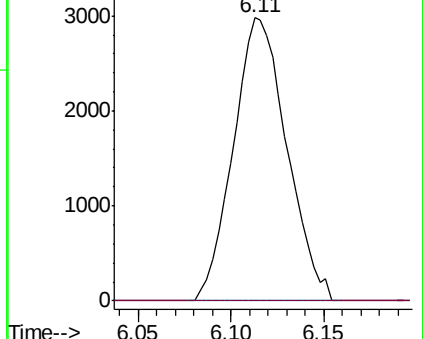
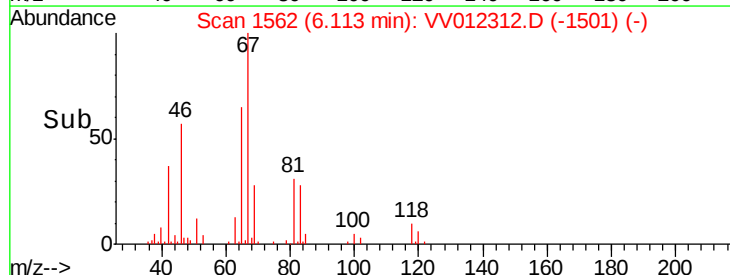
63 100

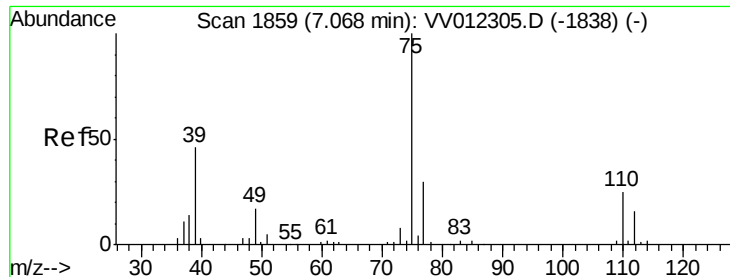
112 0.0 5.1 7.7#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V

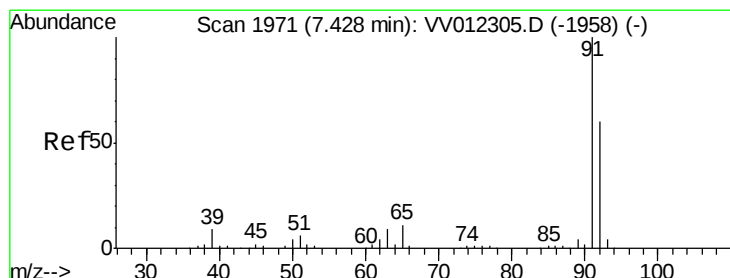
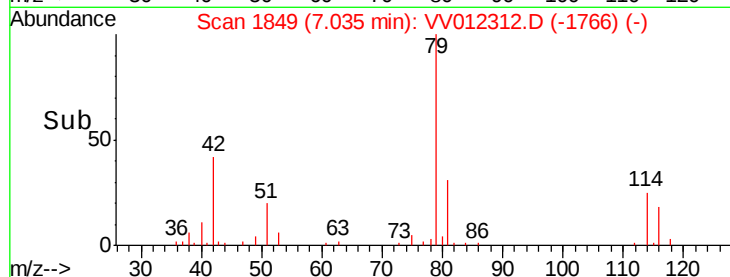
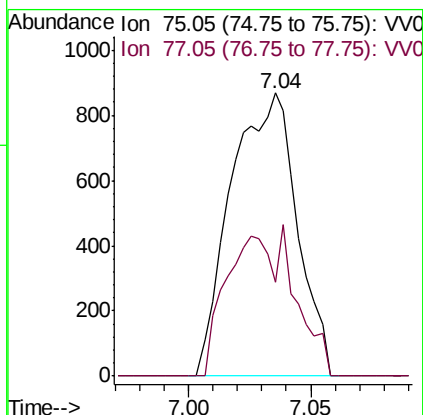
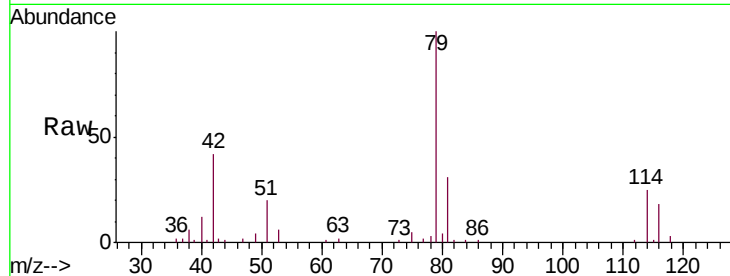




#39
 cis-1,3-Dichloropropene
 Concen: 0.125 ug/L
 RT: 7.04 min Scan# 1849
 Delta R.T. -0.03 min
 Lab File: VV012312.D
 Acq: 20 Aug 2019 15:06

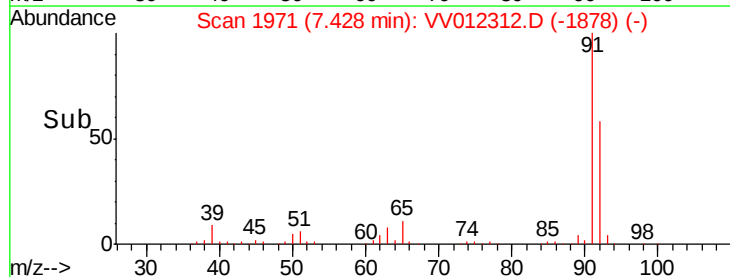
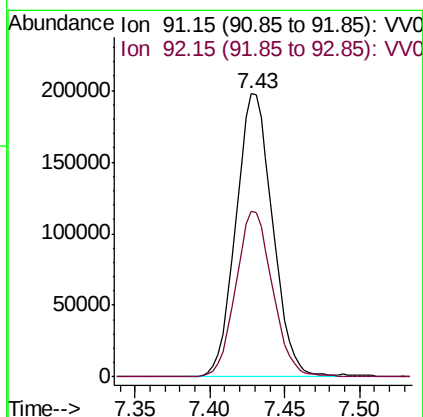
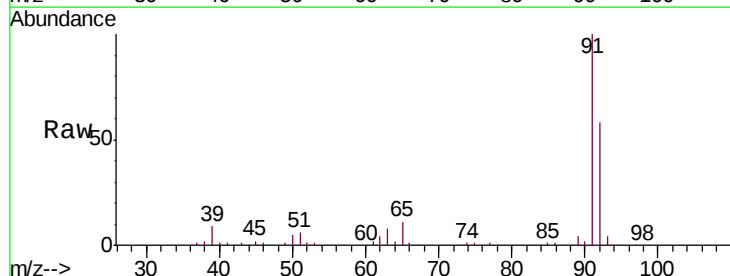
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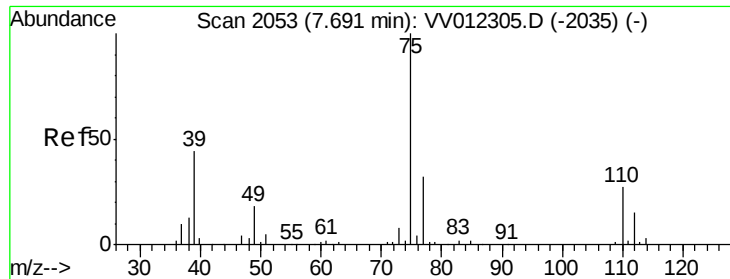
Tgt Ion: 75 Resp: 1631
 Ion Ratio Lower Upper
 75 100
 77 33.4 21.5 39.9



#42
 Toluene
 Concen: 8.692 ug/L
 RT: 7.43 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: VV012312.D
 Acq: 20 Aug 2019 15:06

Tgt Ion: 91 Resp: 337959
 Ion Ratio Lower Upper
 91 100
 92 58.5 41.6 77.3





#44

trans-1,3-Dichloropropene

Concen: 0.061 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Instrument :

MSVOA_V

ClientSampleId :

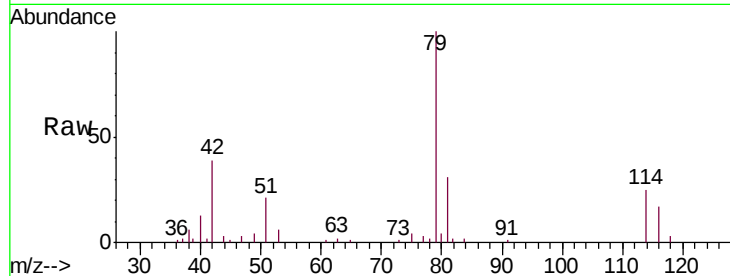
C0AB2DL

Tgt Ion: 75 Resp: 640

Ion Ratio Lower Upper

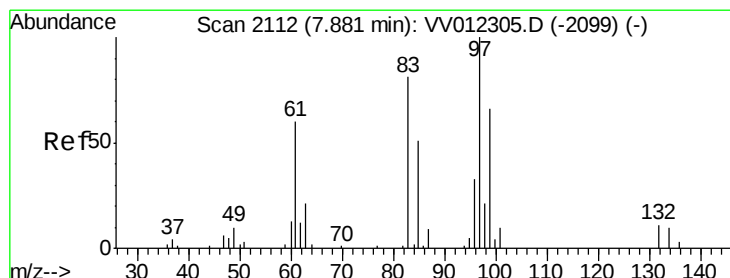
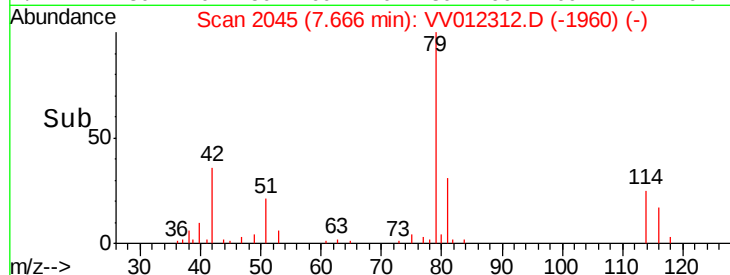
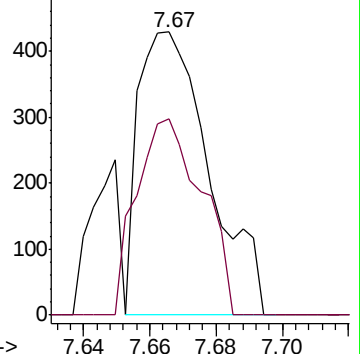
75 100

77 69.5 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#45

1,1,2-Trichloroethane

Concen: 0.315 ug/L

RT: 7.74 min Scan# 2069

Delta R.T. -0.14 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Tgt Ion: 97 Resp: 1985

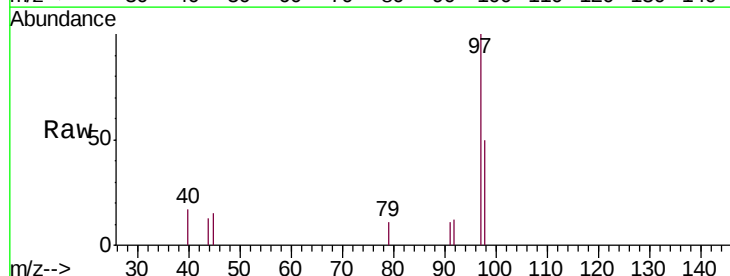
Ion Ratio Lower Upper

97 100

99 0.0 44.7 83.1#

83 0.0 56.8 105.6#

85 0.0 34.5 64.1#

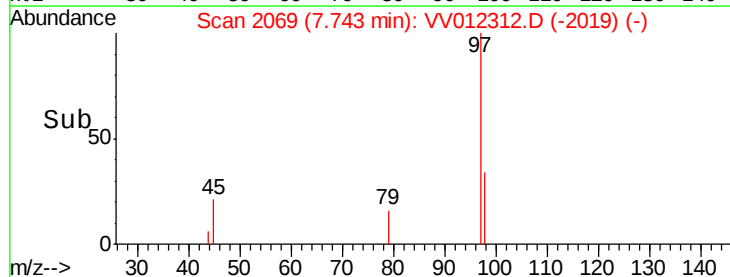
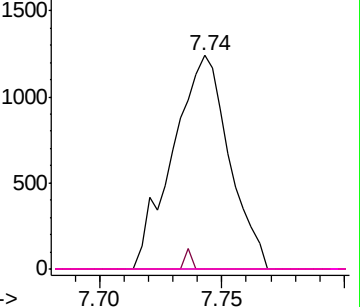


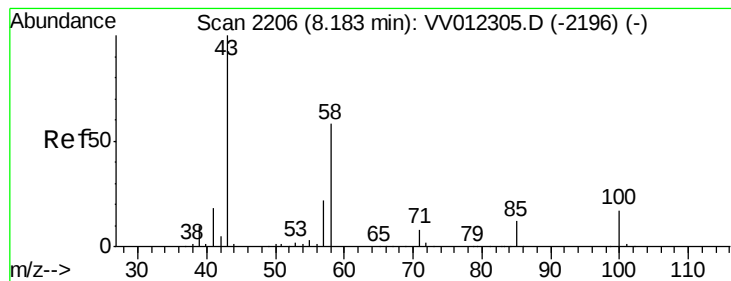
Abundance Ion 96.95 (96.65 to 97.65): VV0

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





#48

2-Hexanone

Concen: 2.996 ug/L

RT: 8.13 min Scan# 2190

Delta R.T. -0.05 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Instrument :

MSVOA_V

ClientSampleId :

C0AB2DL

Tgt Ion: 43 Resp: 9307

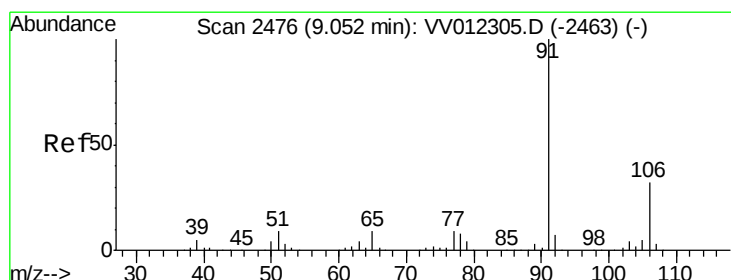
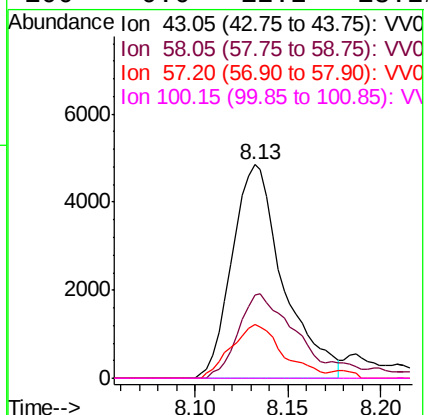
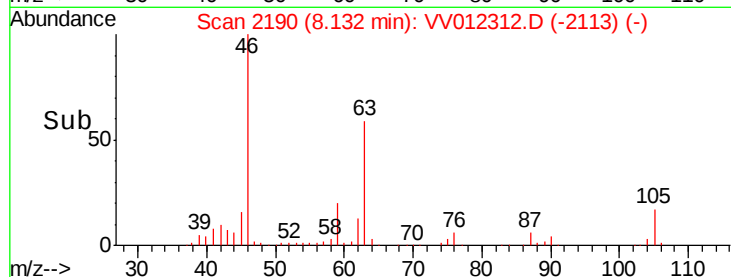
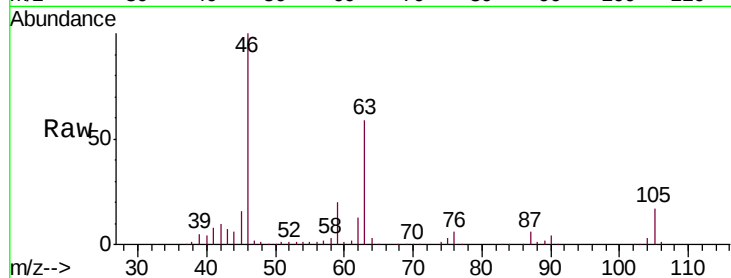
Ion Ratio Lower Upper

43 100

58 46.6 45.4 68.2

57 25.6 16.8 25.2#

100 0.0 12.2 18.2#



#52

Ethylbenzene

Concen: 12.704 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012312.D

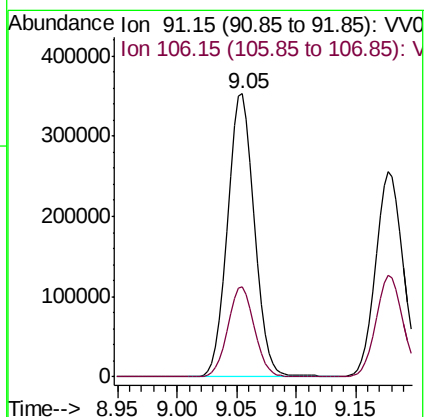
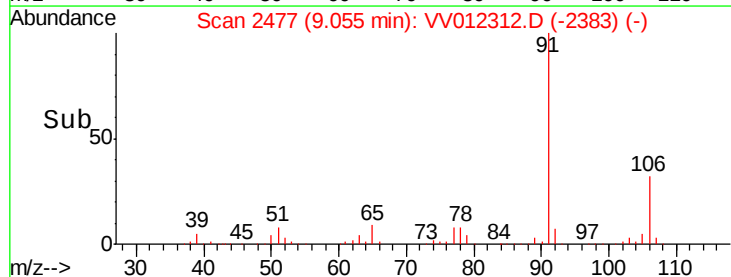
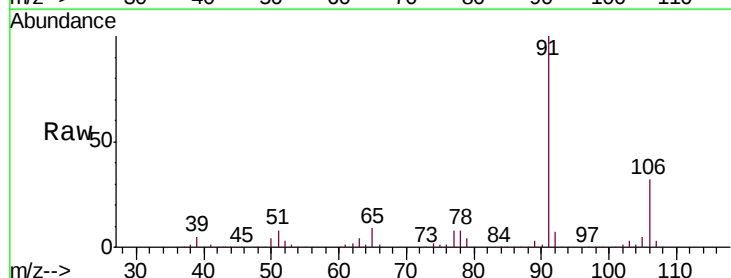
Acq: 20 Aug 2019 15:06

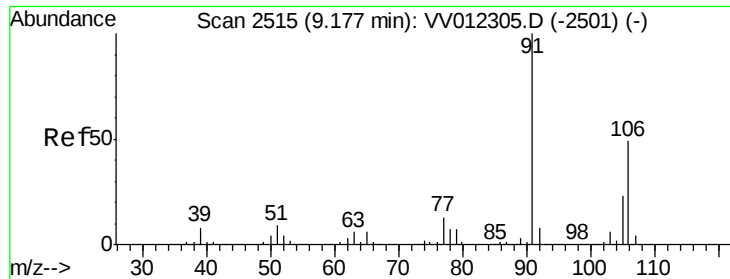
Tgt Ion: 91 Resp: 552672

Ion Ratio Lower Upper

91 100

106 31.7 21.6 40.0





#53

m,p-xylene

Concen: 11.812 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Instrument :

MSVOA_V

ClientSampleId :

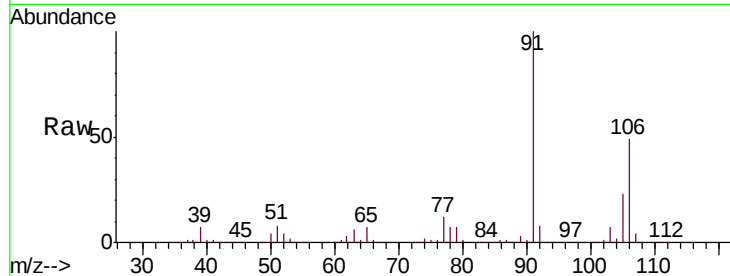
C0AB2DL

Tgt Ion:106 Resp: 200609

Ion Ratio Lower Upper

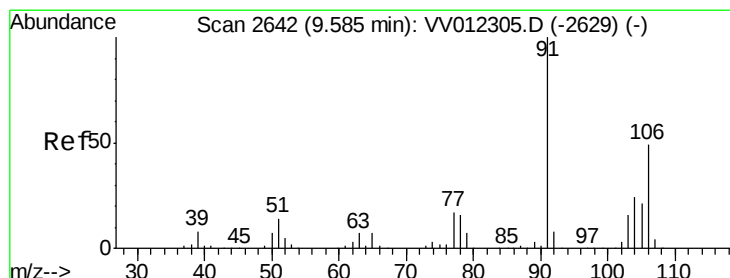
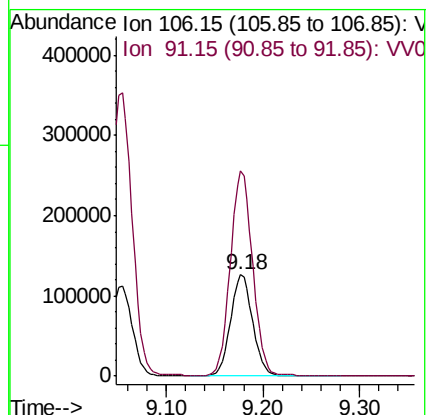
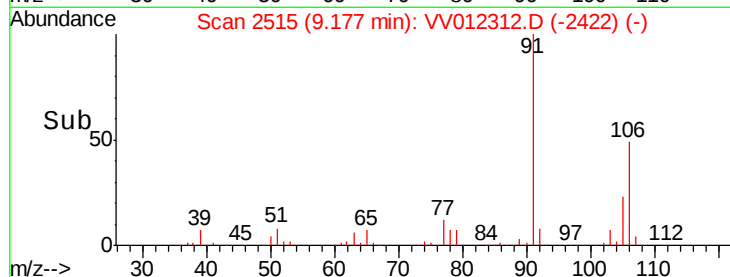
106 100

91 202.2 136.0 252.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 5.986 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012312.D

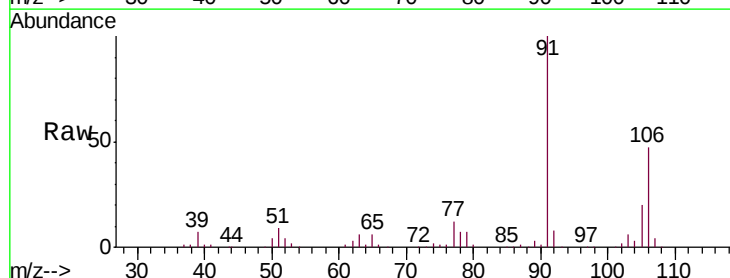
Acq: 20 Aug 2019 15:06

Tgt Ion:106 Resp: 97775

Ion Ratio Lower Upper

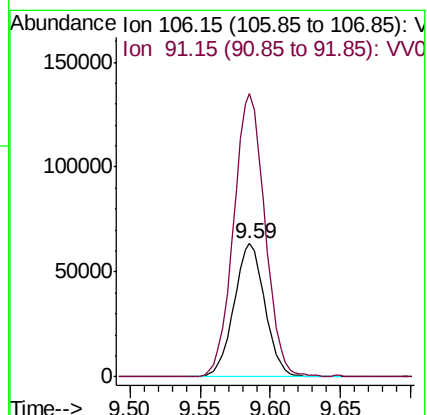
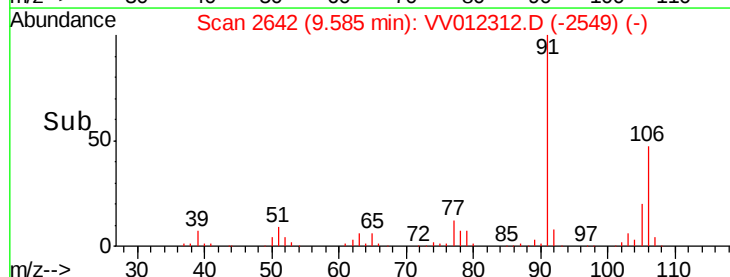
106 100

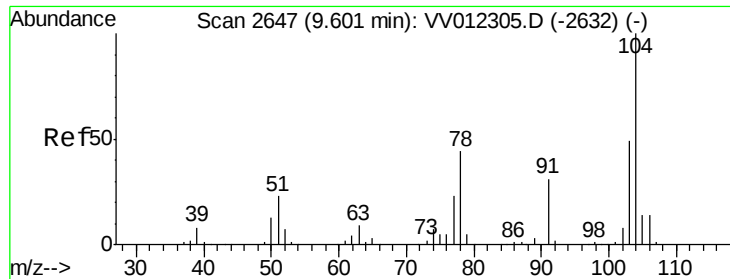
91 212.6 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#55

Styrene

Concen: 0.317 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.01 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

Instrument :

MSVOA_V

ClientSampled :

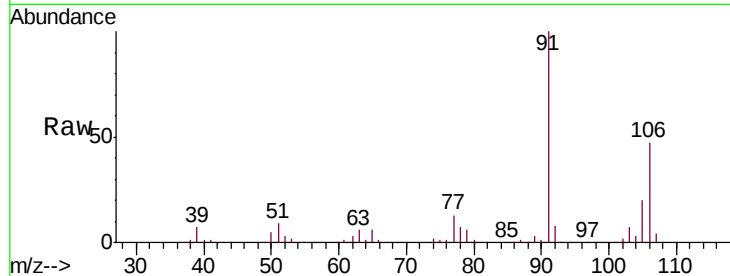
C0AB2DL

Tgt Ion:104 Resp: 8736

Ion Ratio Lower Upper

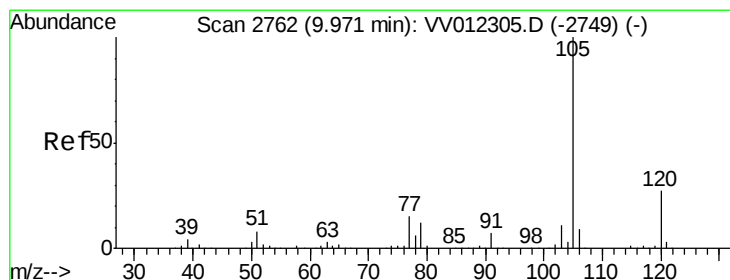
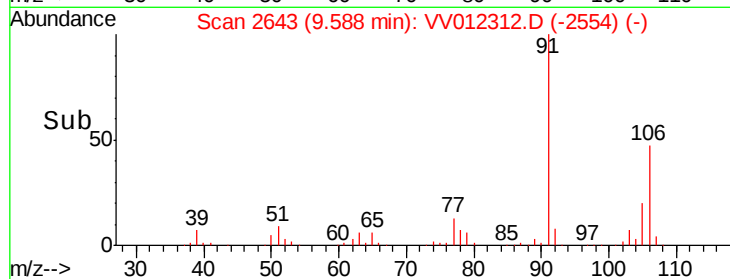
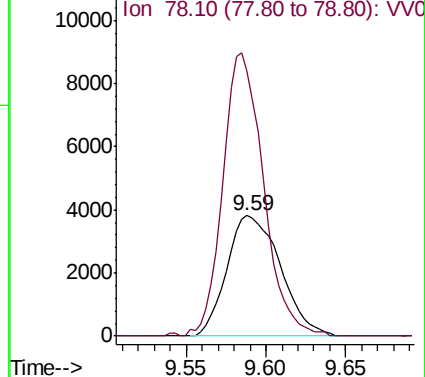
104 100

78 220.0 30.8 57.2#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0



#56

Isopropylbenzene

Concen: 3.177 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012312.D

Acq: 20 Aug 2019 15:06

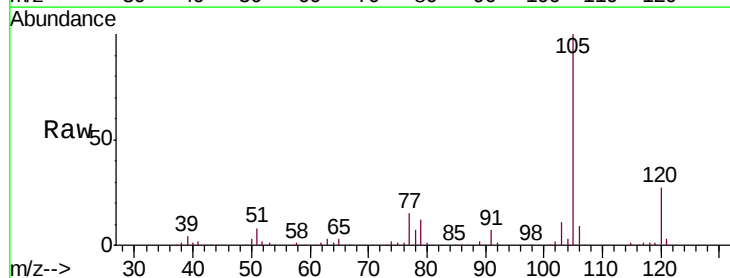
Tgt Ion:105 Resp: 143241

Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.0

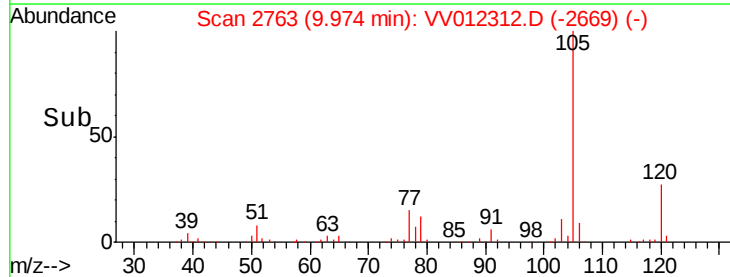
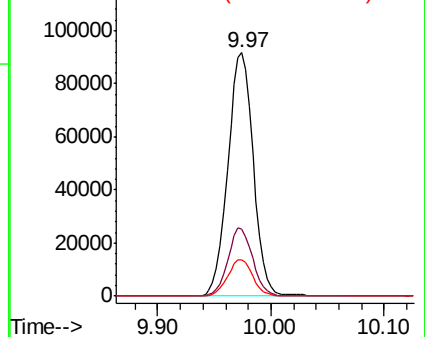
77 14.8 12.2 18.2

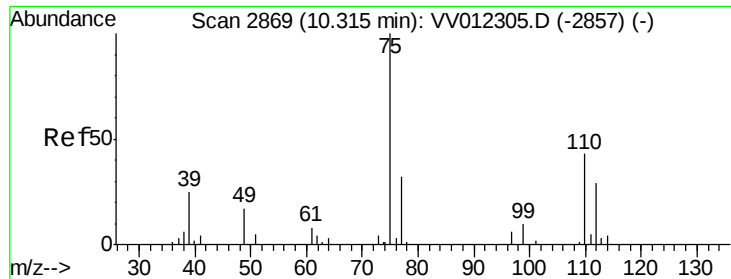


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0

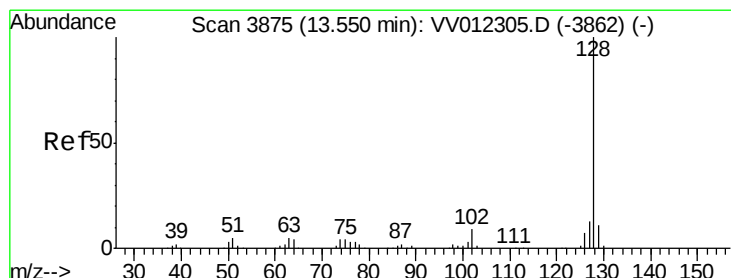
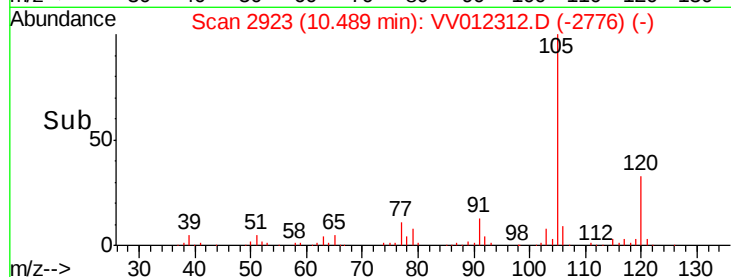
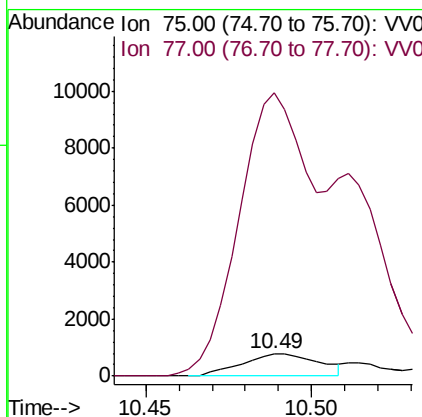
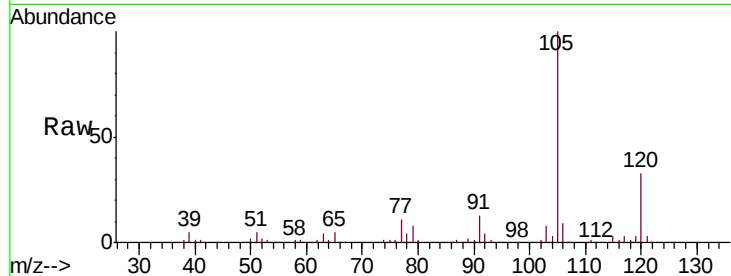




#59
 1,2,3-Trichloropropane
 Concen: 0.251 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.17 min
 Lab File: VV012312.D
 Acq: 20 Aug 2019 15:06

Instrument :
 MSVOA_V
 ClientSampled :
 C0AB2DL

Tgt Ion: 75 Resp: 1280
 Ion Ratio Lower Upper
 75 100
 77 1116.3 25.8 38.8#



#69
 Naphthalene
 Concen: 624.151 ug/L
 RT: 13.56 min Scan# 3877
 Delta R.T. 0.01 min
 Lab File: VV012312.D
 Acq: 20 Aug 2019 15:06

Tgt Ion: 128 Resp: 12604926
 Ion Ratio Lower Upper
 128 100
 129 12.3 8.7 13.1
 127 14.6 10.5 15.7

