

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
 Data File : VV018738.D
 Acq On : 07 Oct 2020 19:24
 Operator : SY/MD
 Sample : L4239-07 20X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 08 06:41:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 08 02:46:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	341413	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	328765	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	146298	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	86846	43.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.74%
7) Chloroethane-d5	1.58	69	73303	44.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.56%
11) 1,1-Dichloroethene-d2	2.12	63	136024	33.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.68%
21) 2-Butanone-d5	3.91	46	130463	87.35	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.35%
24) Chloroform-d	4.38	84	196050	45.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.56%
26) 1,2-Dichloroethane-d4	5.06	65	134096	48.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.58%
32) Benzene-d6	5.07	84	392753	47.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.32%
36) 1,2-Dichloropropane-d6	6.09	67	122848	48.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.64%
41) Toluene-d8	7.34	98	339803	43.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.74%
43) trans-1,3-Dichloropropene-	7.64	79	60581	44.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.14%
47) 2-Hexanone-d5	8.11	63	86572	90.58	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.58%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	124369	37.28	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	74.56%
64) 1,2-Dichlorobenzene-d4	11.65	152	128403	45.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.28%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	5921	2.267 ug/L #	71
8) Chloroethane	1.60	64	1699	1.056 ug/L	94
12) 1,1-Dichloroethene	2.13	96	7711	3.618 ug/L #	1
17) trans-1,2-Dichloroethene	2.78	96	2324	0.953 ug/L	92
19) 1,1-Dichloroethane	3.21	63	61880	14.492 ug/L	97
20) cis-1,2-Dichloroethene	3.94	96	429263	165.624 ug/L	95
27) 1,2-Dichloroethane	5.08	62	2529	0.720 ug/L	97
29) Cyclohexane	4.70	56	33615	8.965 ug/L	97
30) 1,1,1-Trichloroethane	4.63	97	818017	200.421 ug/L	98
31) Carbon tetrachloride	4.64	117	104016	28.396 ug/L	100
42) Toluene	7.41	91	7463302	714.284 ug/L	99
51) Chlorobenzene	8.90	112	13549	1.917 ug/L #	85
52) Ethylbenzene	9.03	91	354307	30.364 ug/L	99
53) m,p-Xylene	9.16	106	512992	113.757 ug/L	99
54) o-xylene	9.56	106	273345	64.023 ug/L	97
56) Isopropylbenzene	9.95	105	50257	4.389 ug/L	98
65) 1,2-Dichlorobenzene	11.66	146	12360	2.639 ug/L	98

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 08 02:46:20 2020
Response via : Initial Calibration

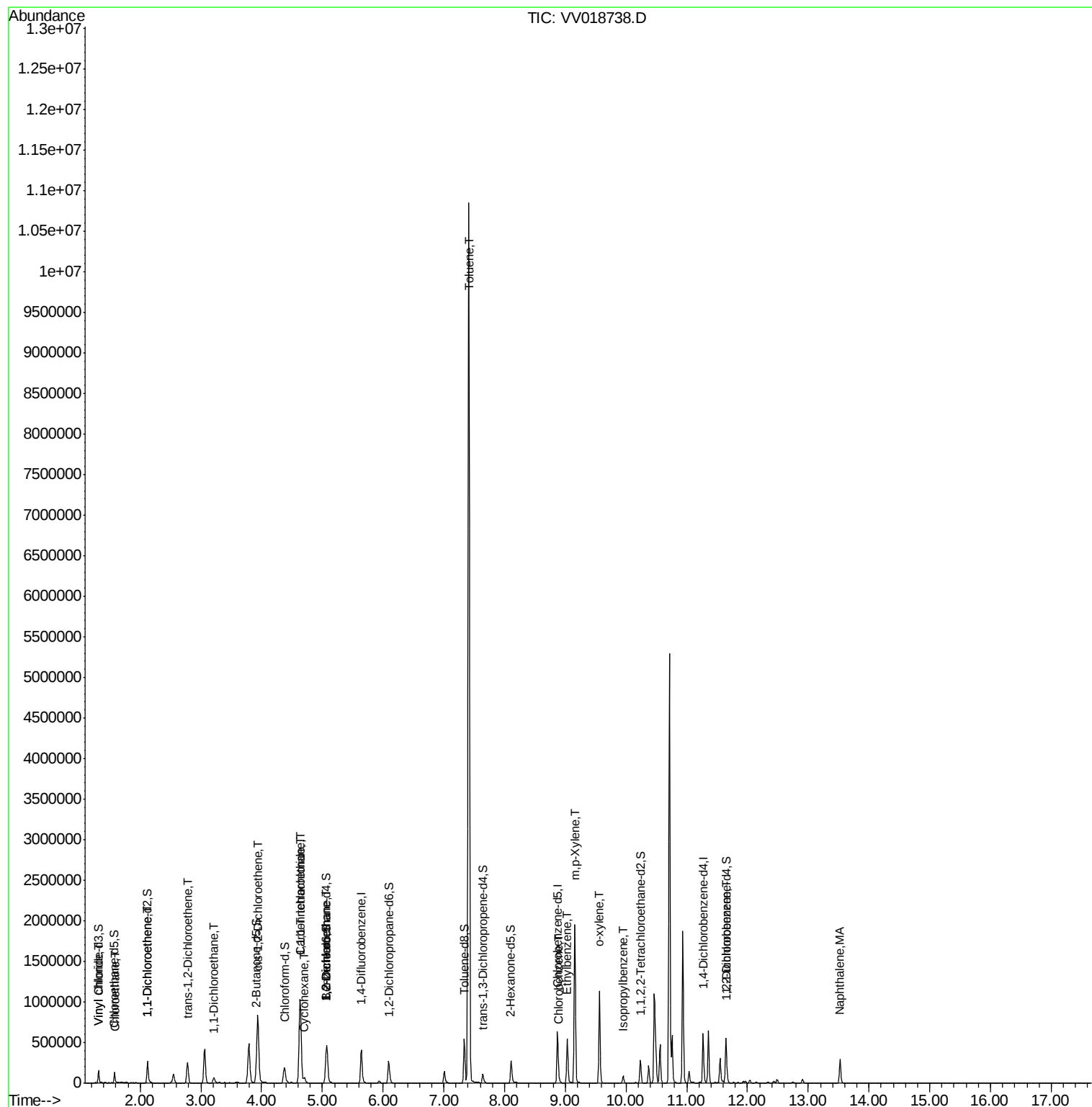
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
69) Naphthalene	13.52	128	217547	24.902	ug/L	98
-----	-----	-----	-----	-----	-----	-----

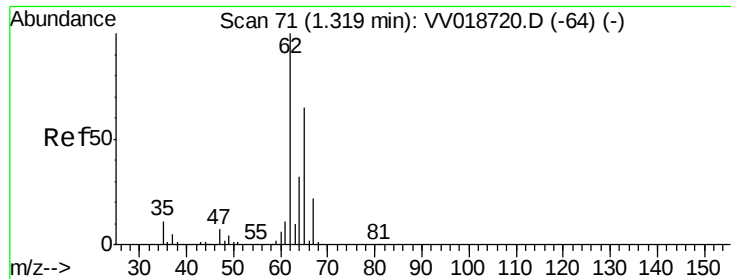
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.267 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

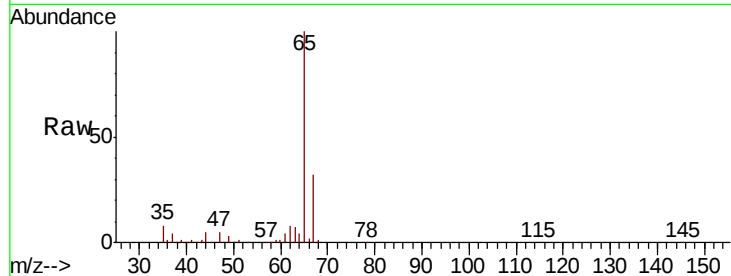
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 5921

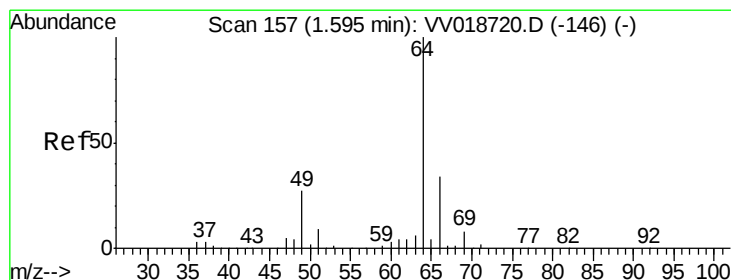
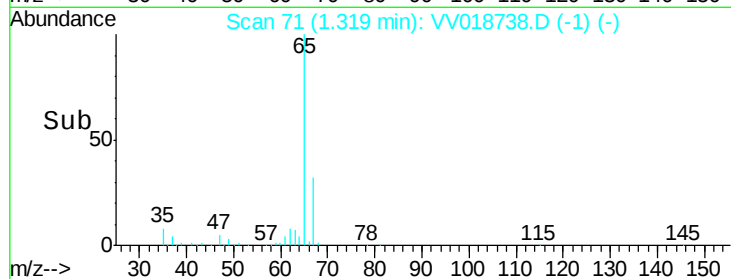
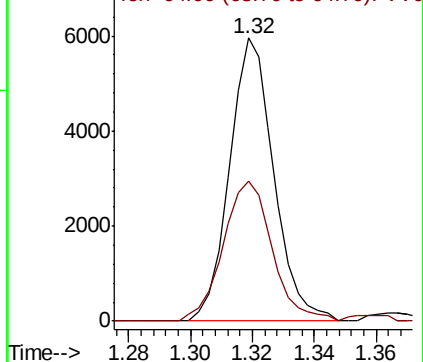
Ion Ratio Lower Upper

62 100

64 49.3 22.9 42.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 64.00 (63.70 to 64.70): VV0



#8

Chloroethane

Concen: 1.056 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV018738.D

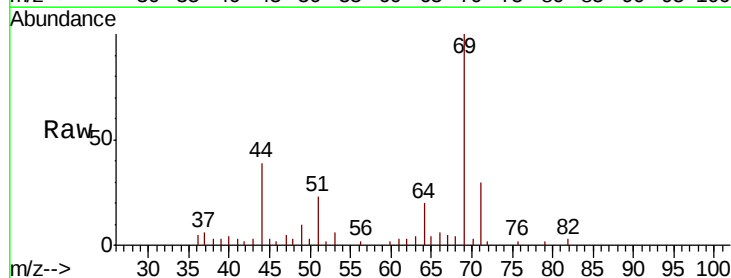
Acq: 07 Oct 2020 19:24

Tgt Ion: 64 Resp: 1699

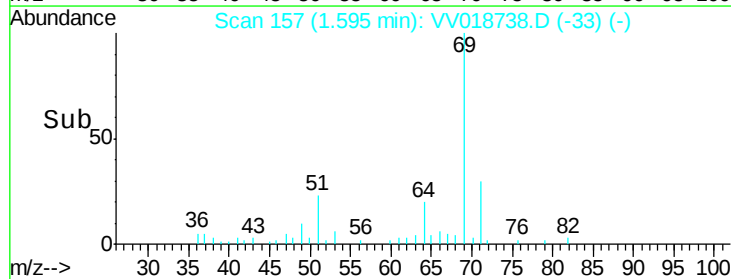
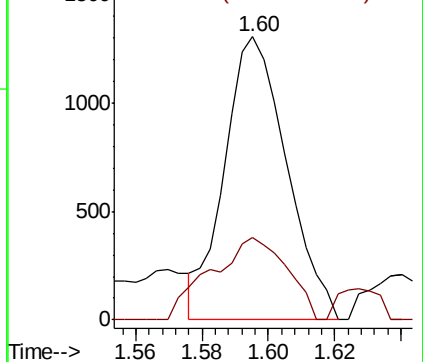
Ion Ratio Lower Upper

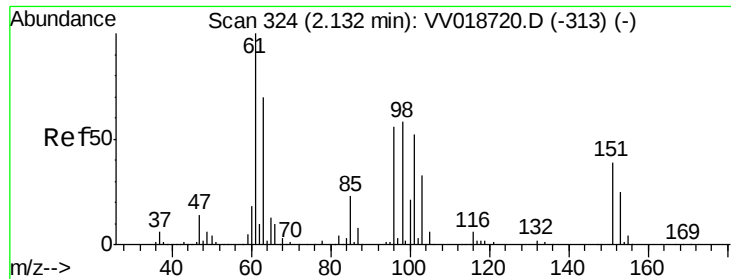
64 100

66 29.0 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV0
Ion 66.00 (65.70 to 66.70): VV0





#12

1,1-Dichloroethene

Concen: 3.618 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

Instrument :
MSVOA_V
ClientSampleId :

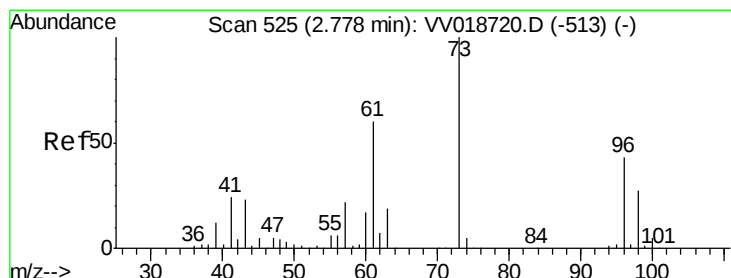
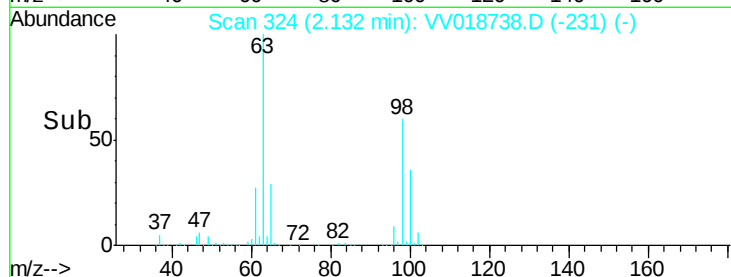
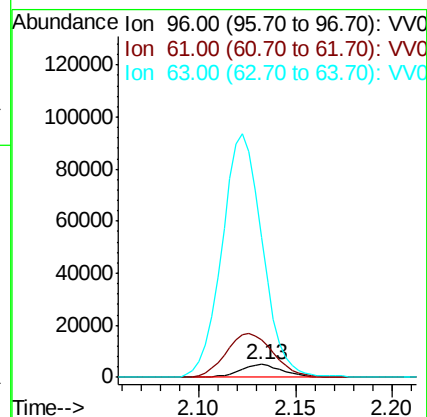
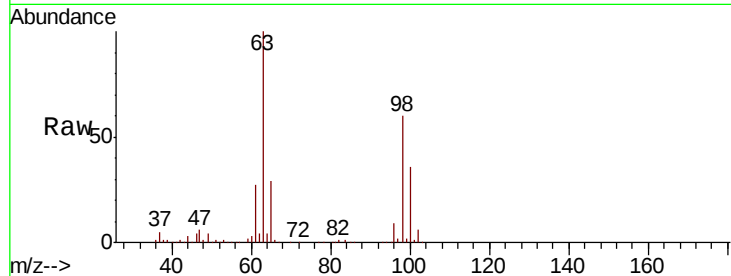
Tot Ion: 96 Resp: 7711

Ion Ratio Lower Upper

96 100

61 289.5 122.8 228.1#

63 1078.7 91.9 170.7#



#17

trans-1,2-Dichloroethene

Concen: 0.953 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

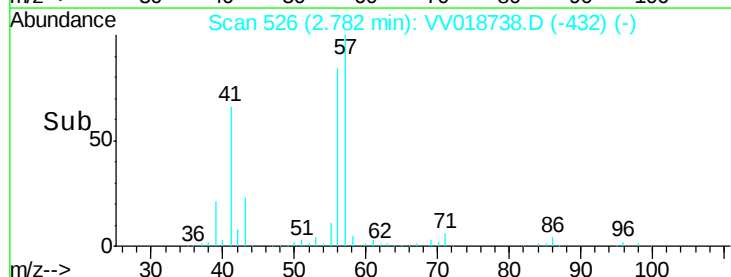
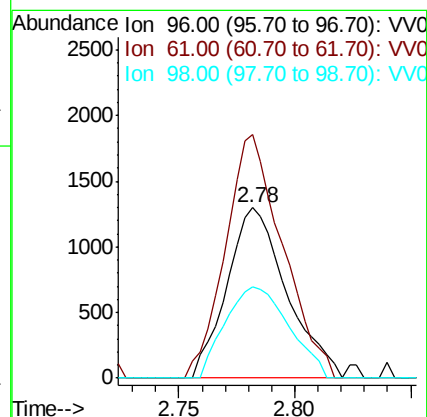
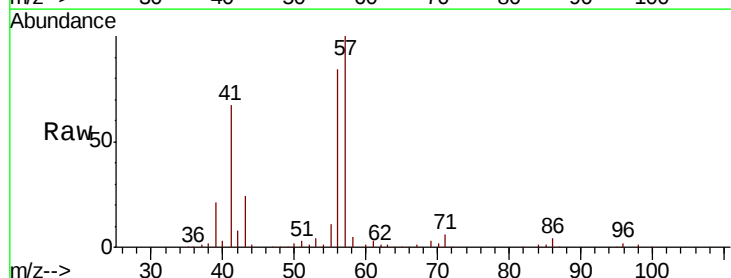
Tgt Ion: 96 Resp: 2324

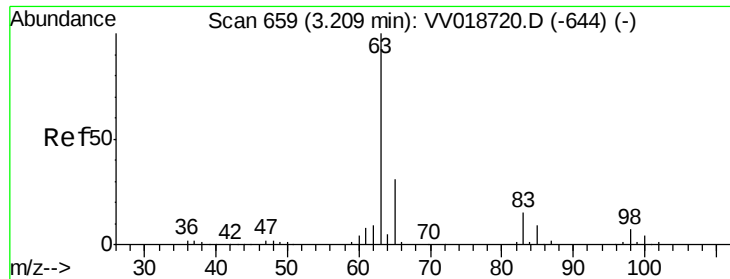
Ion Ratio Lower Upper

96 100

61 142.9 95.0 176.4

98 53.2 44.6 82.8

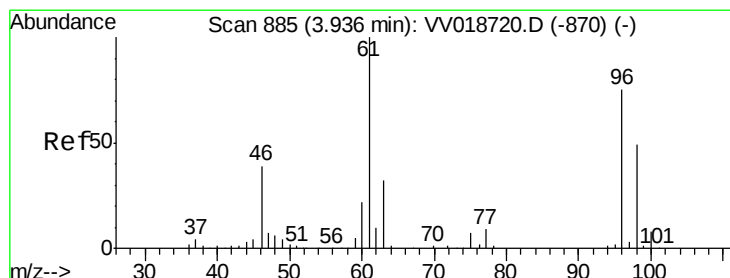
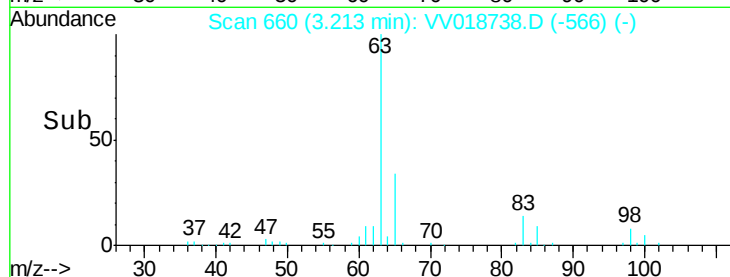
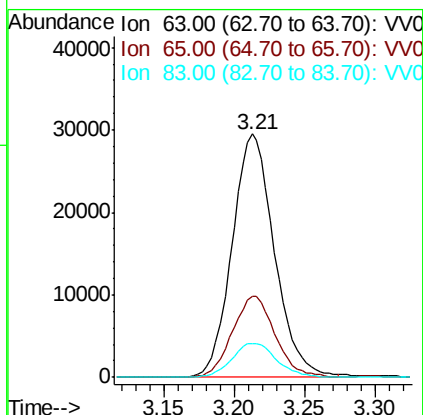
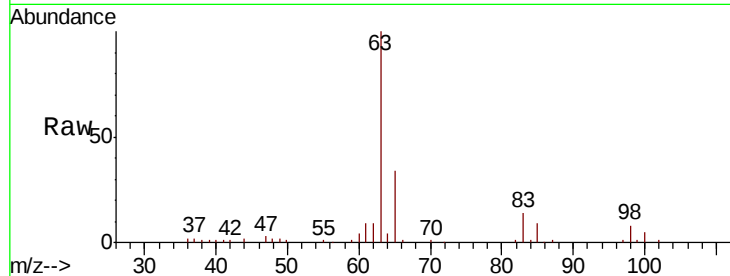




#19
 1,1-Dichloroethane
 Concen: 14.492 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV018738.D
 Acq: 07 Oct 2020 19:24

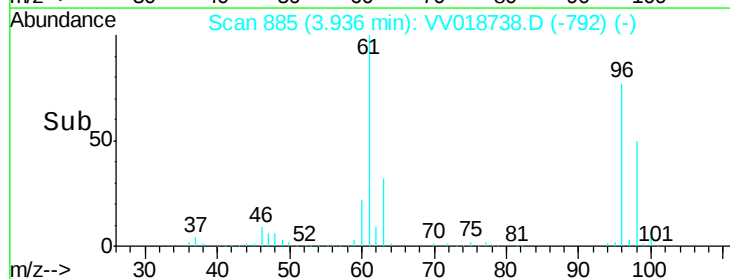
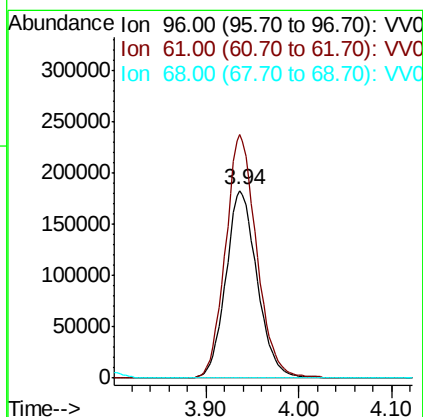
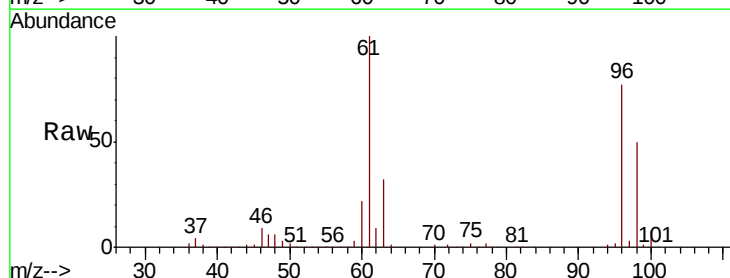
Instrument :
 MSVOA_V
 ClientSampleId :

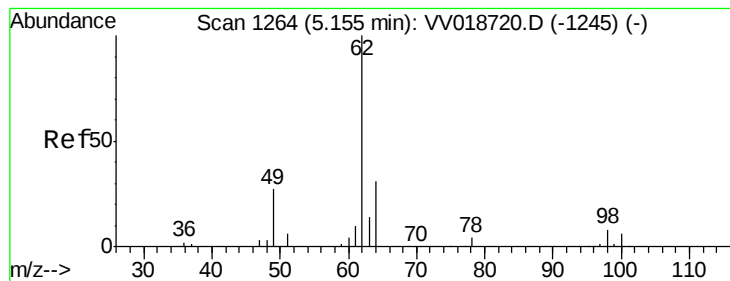
Tot Ion: 63 Resp: 61880
 Ion Ratio Lower Upper
 63 100
 65 33.5 22.3 41.3
 83 13.9 9.3 17.3



#20
 cis-1,2-Dichloroethene
 Concen: 165.624 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: VV018738.D
 Acq: 07 Oct 2020 19:24

Tgt Ion: 96 Resp: 429263
 Ion Ratio Lower Upper
 96 100
 61 129.6 86.8 161.2
 68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.720 ug/L

RT: 5.08 min Scan# 1240

Delta R.T. -0.08 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

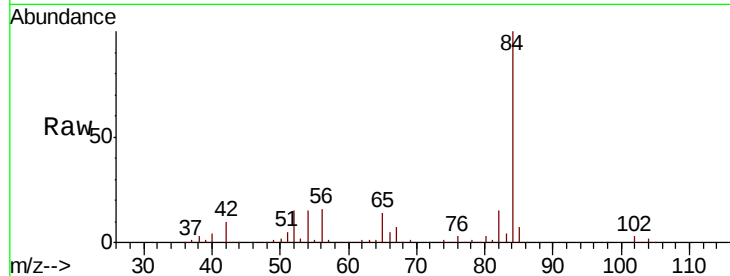
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 2529

Ion Ratio Lower Upper

62 100

98 10.7 7.7 11.5



Abundance Ion 62.00 (61.70 to 62.70): VV018720.D (-1245) (-)

Ion 98.00 (97.70 to 98.70): VV018720.D (-1245) (-)

1200

1000

800

600

400

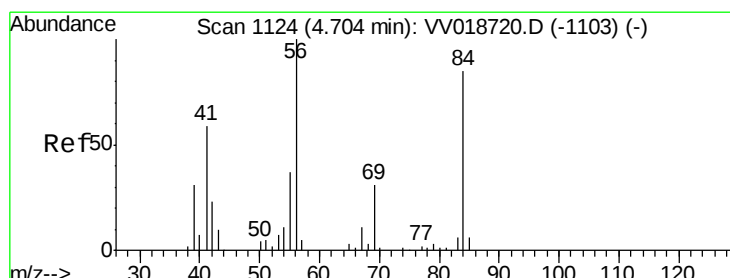
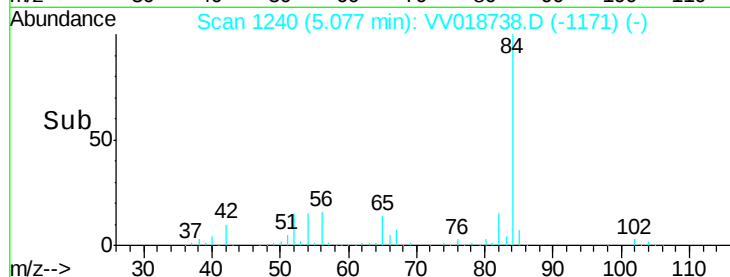
200

0

5.05

5.10

Time-->



#29

Cyclohexane

Concen: 8.965 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

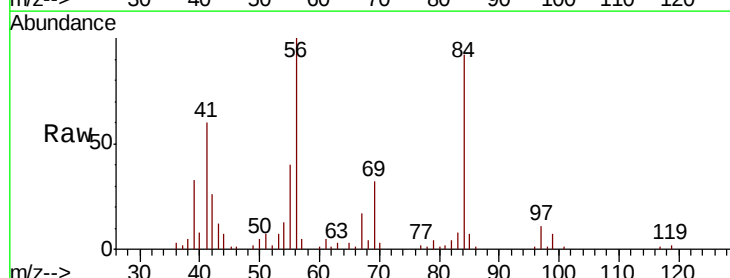
Tgt Ion: 56 Resp: 33615

Ion Ratio Lower Upper

56 100

69 34.9 24.8 37.2

84 89.2 72.2 108.4



Abundance Ion 56.00 (55.70 to 56.70): VV018720.D (-1103) (-)

Ion 69.00 (68.70 to 69.70): VV018720.D (-1103) (-)

Ion 84.00 (83.70 to 84.70): VV018720.D (-1103) (-)

15000

10000

5000

0

4.60

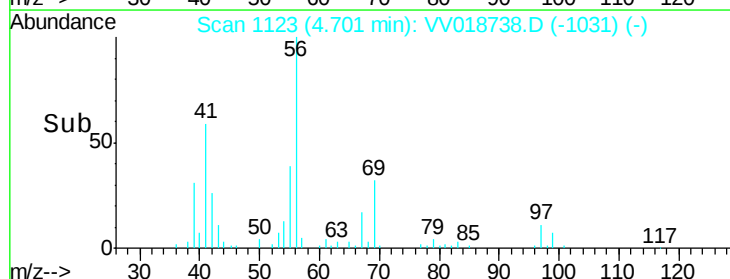
4.65

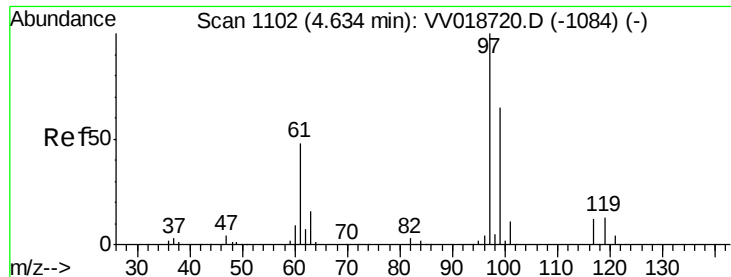
4.70

4.75

4.80

Time-->



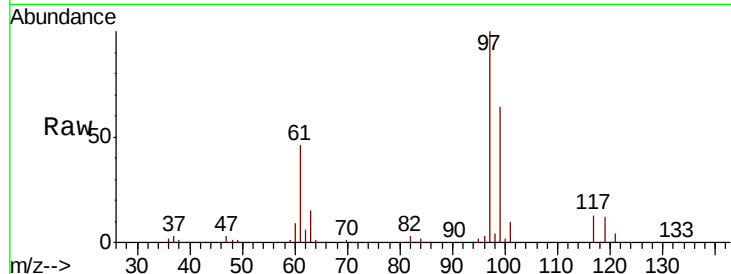


#30
 1,1,1-Trichloroethane
 Concen: 200.421 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. 0.00 min
 Lab File: VV018738.D
 Acq: 07 Oct 2020 19:24

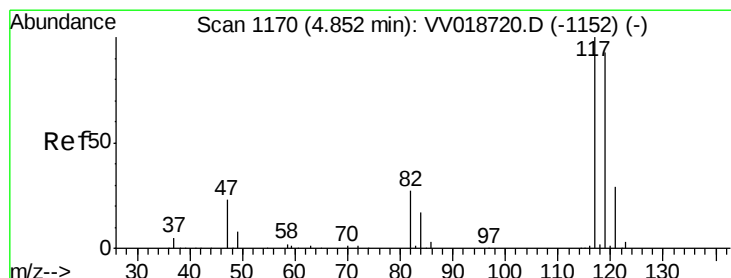
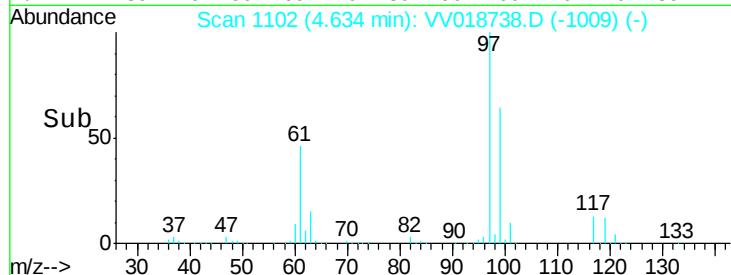
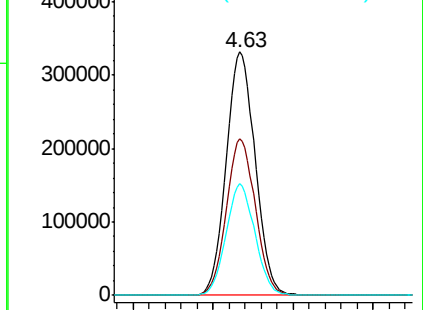
Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 97 Resp: 818017

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	45.6	33.9	50.9



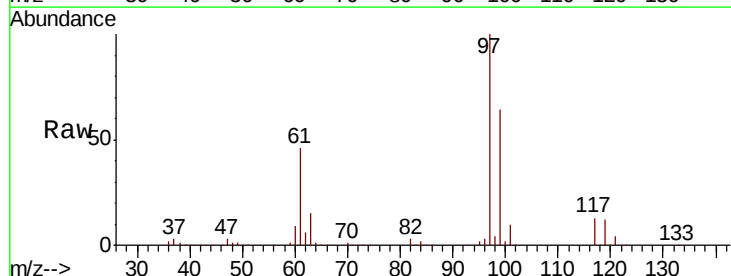
Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0



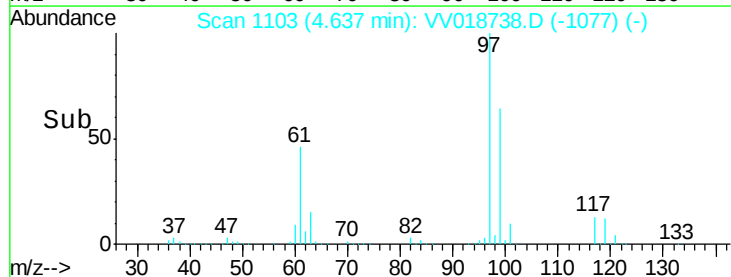
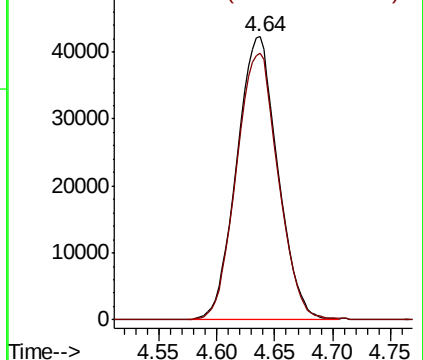
#31
 Carbon tetrachloride
 Concen: 28.396 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. -0.22 min
 Lab File: VV018738.D
 Acq: 07 Oct 2020 19:24

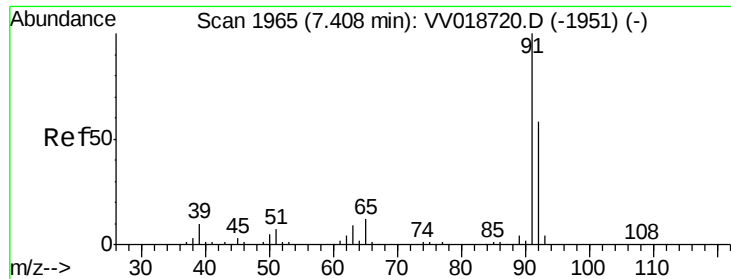
Tgt Ion: 117 Resp: 104016

Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.0	115.6



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#42

Toluene

Concen: 714.284 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

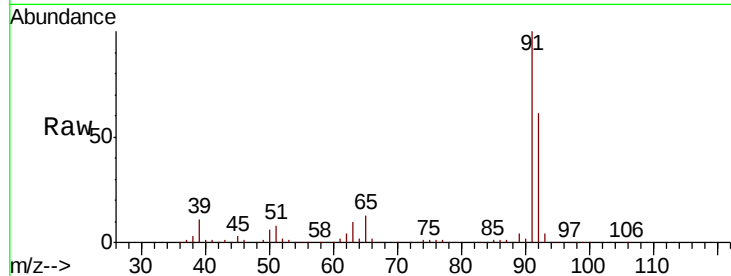
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 7463302

Ion Ratio Lower Upper

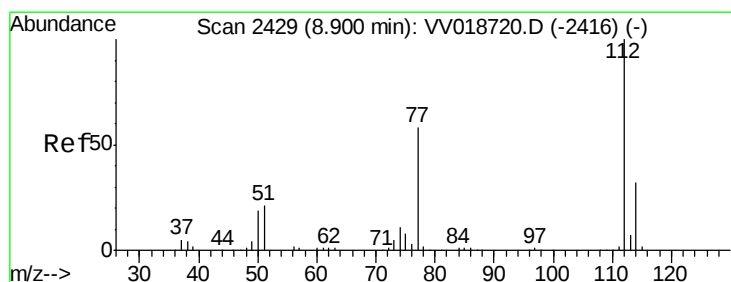
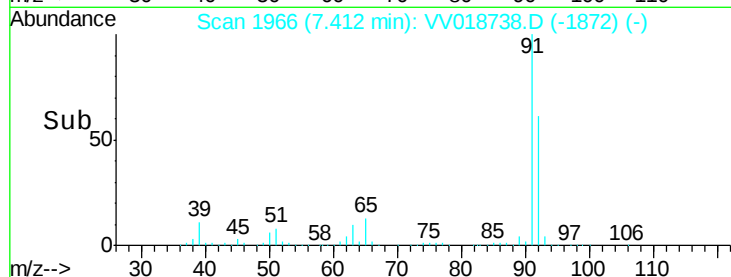
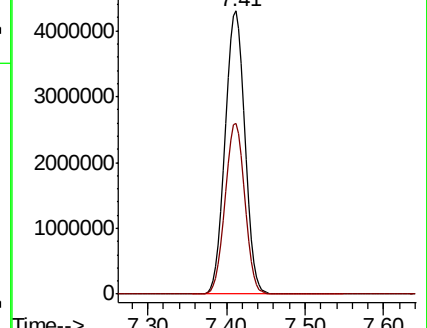
91 100

92 60.5 41.6 77.3



Abundance Ion 91.00 (90.70 to 91.70): VV018720.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV018720.D (-1951) (-)



#51

Chlorobenzene

Concen: 1.917 ug/L

RT: 8.90 min Scan# 2429

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

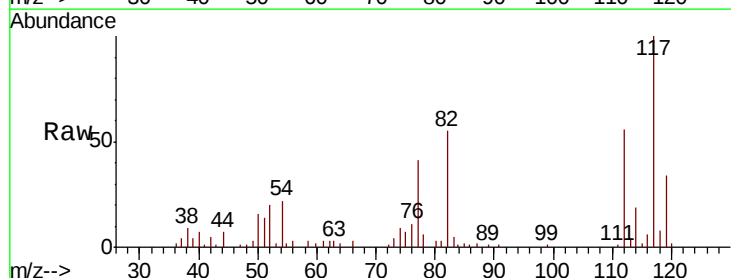
Tgt Ion: 112 Resp: 13549

Ion Ratio Lower Upper

112 100

114 33.8 22.4 41.6

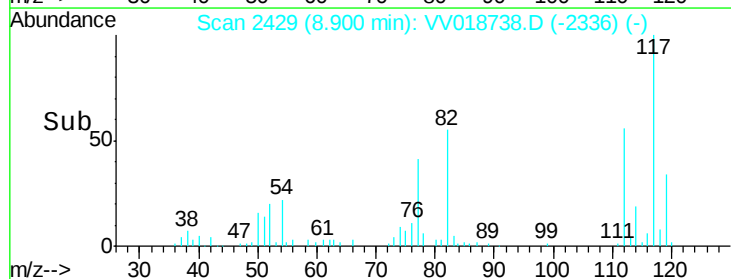
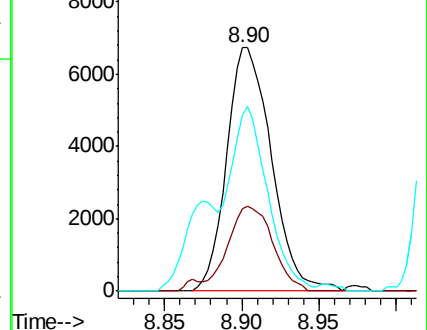
77 72.3 44.8 67.2#

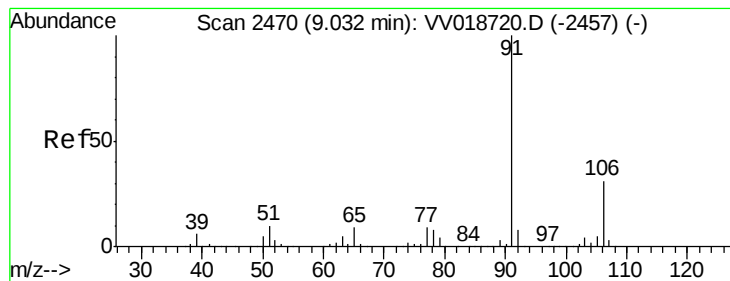


Abundance Ion 112.00 (111.70 to 112.70): VV018720.D (-2416) (-)

Ion 114.00 (113.70 to 114.70): VV018720.D (-2416) (-)

Ion 77.00 (76.70 to 77.70): VV018720.D (-2416) (-)





#52

Ethylbenzene

Concen: 30.364 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

Instrument :

MSVOA_V

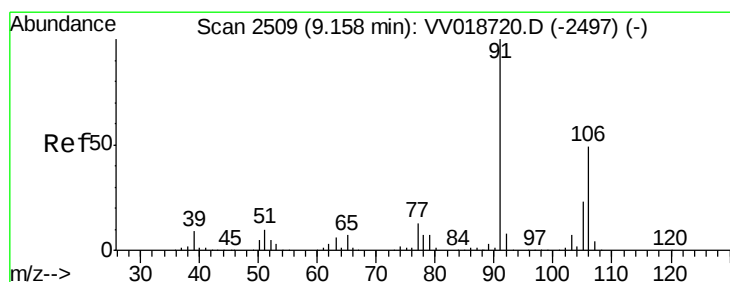
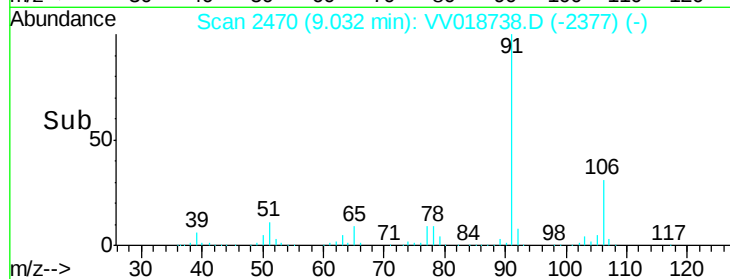
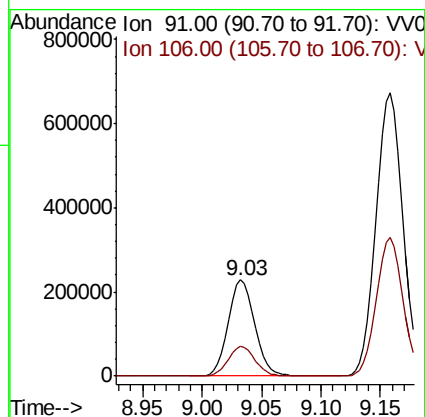
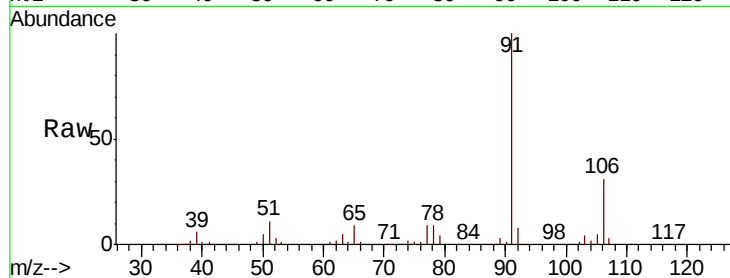
ClientSampleId :

Tot Ion: 91 Resp: 354307

Ion Ratio Lower Upper

91 100

106 30.8 21.9 40.7



#53

m,p-Xylene

Concen: 113.757 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018738.D

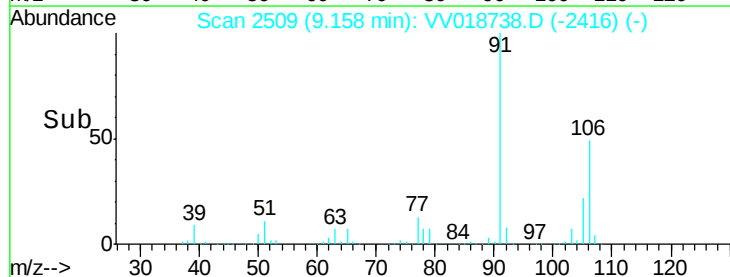
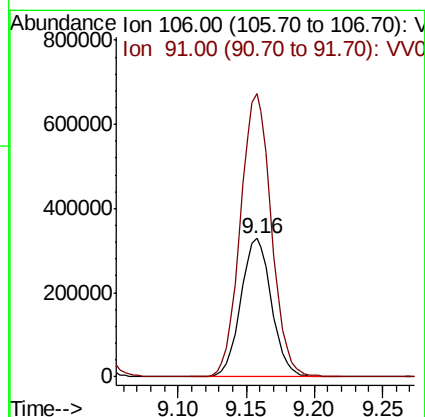
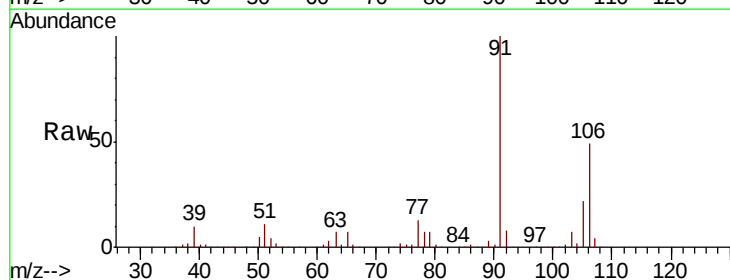
Acq: 07 Oct 2020 19:24

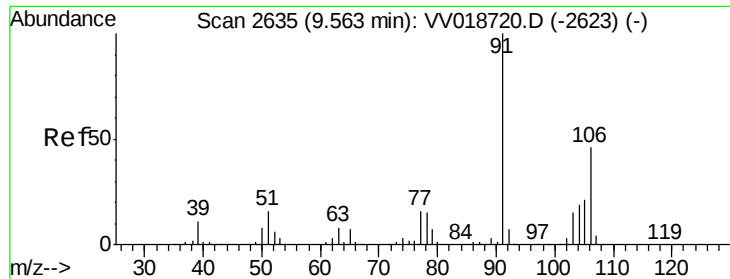
Tgt Ion: 106 Resp: 512992

Ion Ratio Lower Upper

106 100

91 204.6 142.3 264.3





#54

o-xylene

Concen: 64.023 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

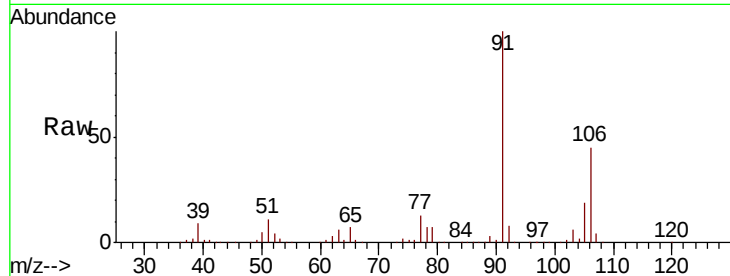
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 273345

Ion Ratio Lower Upper

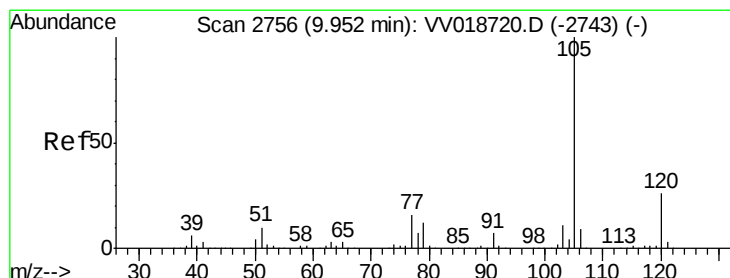
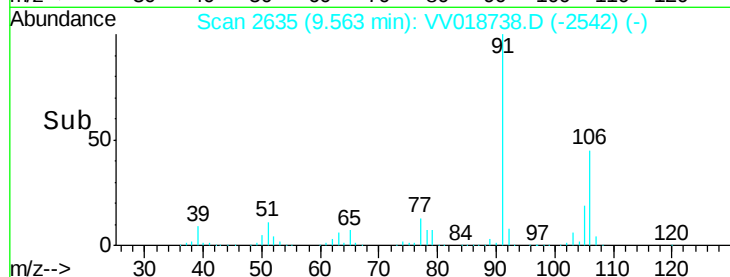
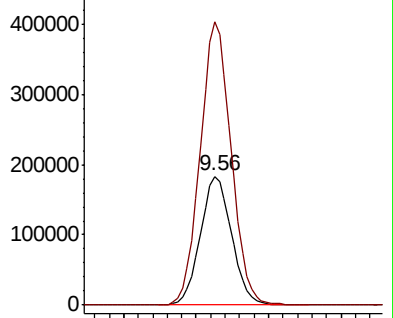
106 100

91 220.3 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Isopropylbenzene

Concen: 4.389 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

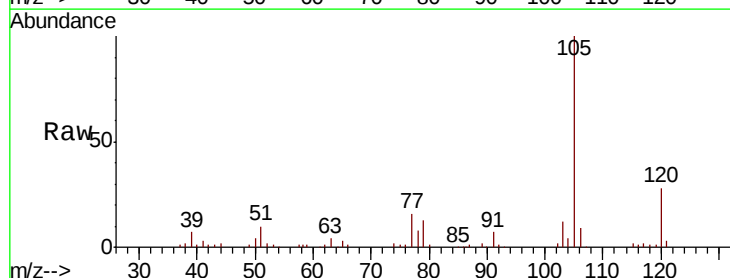
Tgt Ion:105 Resp: 50257

Ion Ratio Lower Upper

105 100

120 26.2 21.5 32.3

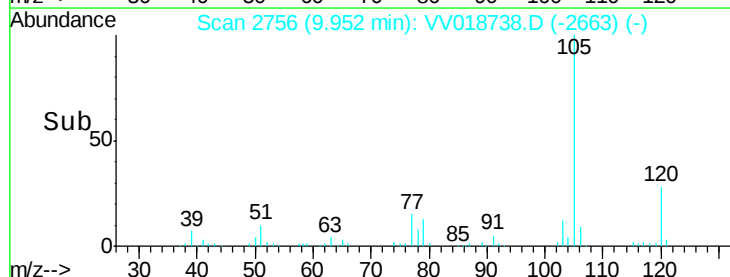
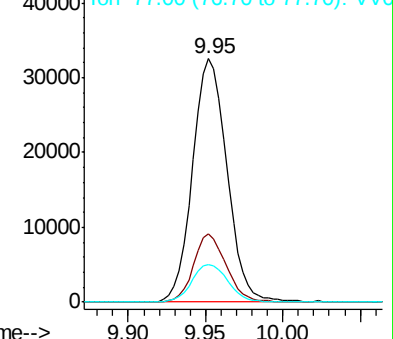
77 16.3 12.2 18.2

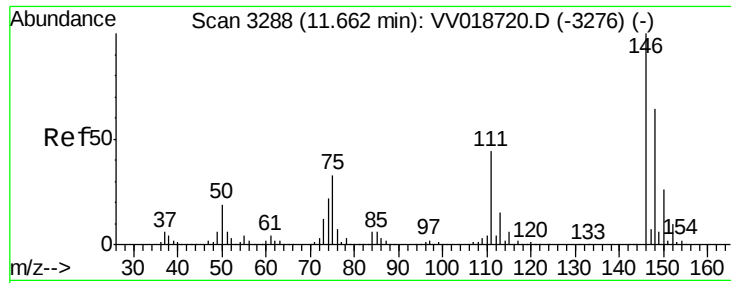


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#65

1,2-Dichlorobenzene

Concen: 2.639 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. 0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

Instrument :

MSVOA_V

ClientSampled :

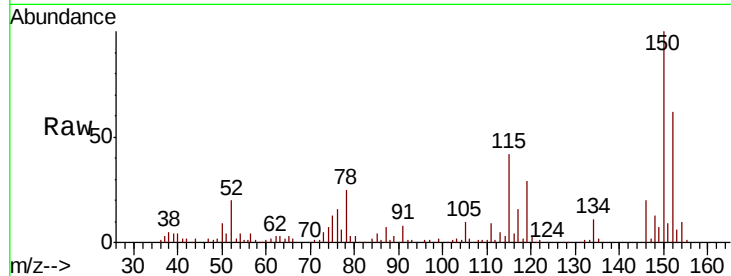
Tot Ion:146 Resp: 12360

Ion Ratio Lower Upper

146 100

111 42.6 32.8 49.2

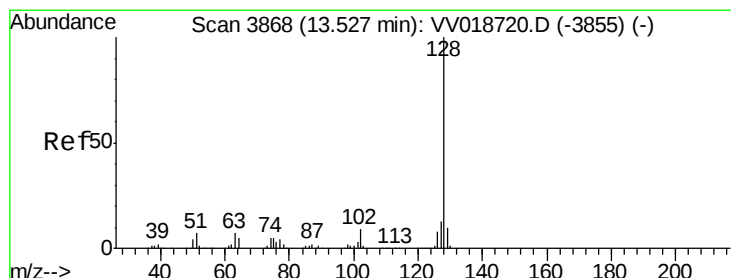
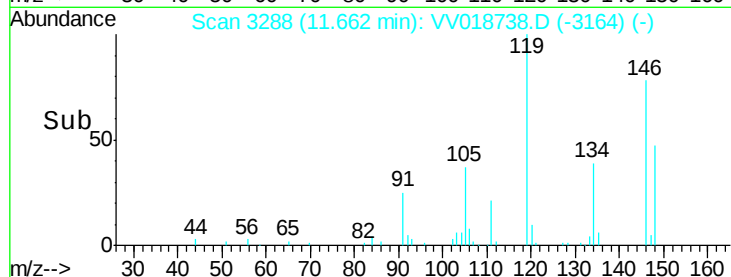
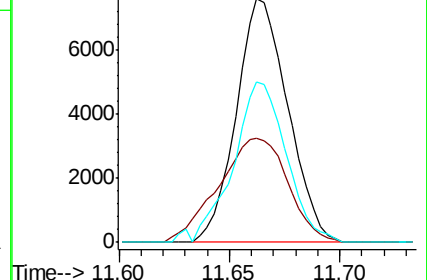
148 65.7 51.9 77.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 24.902 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV018738.D

Acq: 07 Oct 2020 19:24

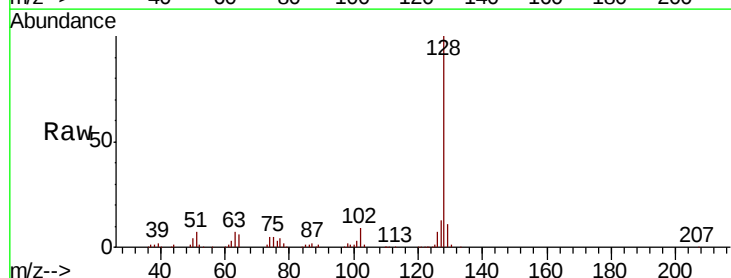
Tgt Ion:128 Resp: 217547

Ion Ratio Lower Upper

128 100

127 13.3 10.3 15.5

129 11.5 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

