

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
 Data File : VV018739.D
 Acq On : 07 Oct 2020 19:48
 Operator : SY/MD
 Sample : L4239-08 20X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 08 06:41:12 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	306126	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	291973	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	174648	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	76026	42.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.70%
7) Chloroethane-d5	1.58	69	65768	44.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.60%
11) 1,1-Dichloroethene-d2	2.12	63	131815	36.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.06%
21) 2-Butanone-d5	3.91	46	114210	85.28	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	85.28%
24) Chloroform-d	4.37	84	161752	41.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.32%
26) 1,2-Dichloroethane-d4	5.05	65	115001	46.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.32%
32) Benzene-d6	5.07	84	310294	41.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.92%
36) 1,2-Dichloropropane-d6	6.09	67	96981	43.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.80%
41) Toluene-d8	7.34	98	281106	40.40	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	80.80%
43) trans-1,3-Dichloropropene-	7.64	79	51995	43.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.14%
47) 2-Hexanone-d5	8.11	63	76409	90.02	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.02%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	129898	43.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.70%
64) 1,2-Dichlorobenzene-d4	11.65	152	149514	44.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.04%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1413	0.709	ug/L #	21
12) 1,1-Dichloroethene	2.13	96	6611	3.459	ug/L #	1
13) Acetone	2.20	43	7835	6.772	ug/L	92
17) trans-1,2-Dichloroethene	2.78	96	1734	0.793	ug/L #	84
19) 1,1-Dichloroethane	3.21	63	14020	3.662	ug/L #	95
20) cis-1,2-Dichloroethene	3.93	96	480119	206.600	ug/L	93
29) Cyclohexane	4.70	56	83762	25.154	ug/L	100
30) 1,1,1-Trichloroethane	4.63	97	1501962	414.364	ug/L	98
31) Carbon tetrachloride	4.63	117	185353	56.977	ug/L	100
42) Toluene	7.41	91	14660558	1579.913	ug/L	92
51) Chlorobenzene	8.90	112	6102	0.972	ug/L	95
52) Ethylbenzene	9.03	91	272545	26.300	ug/L	99
53) m,p-Xylene	9.16	106	390878	97.600	ug/L	96
54) o-xylene	9.56	106	223968	59.068	ug/L	99
55) Styrene	9.56	104	11562	1.751	ug/L #	1
56) Isopropylbenzene	9.95	105	32795	3.225	ug/L	97
59) 1,2,3-Trichloropropane	11.27	75	22830	8.529	ug/L	94

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Quant Title : VOC Analysis
QLast Update : Thu Oct 08 02:46:20 2020
Response via : Initial Calibration

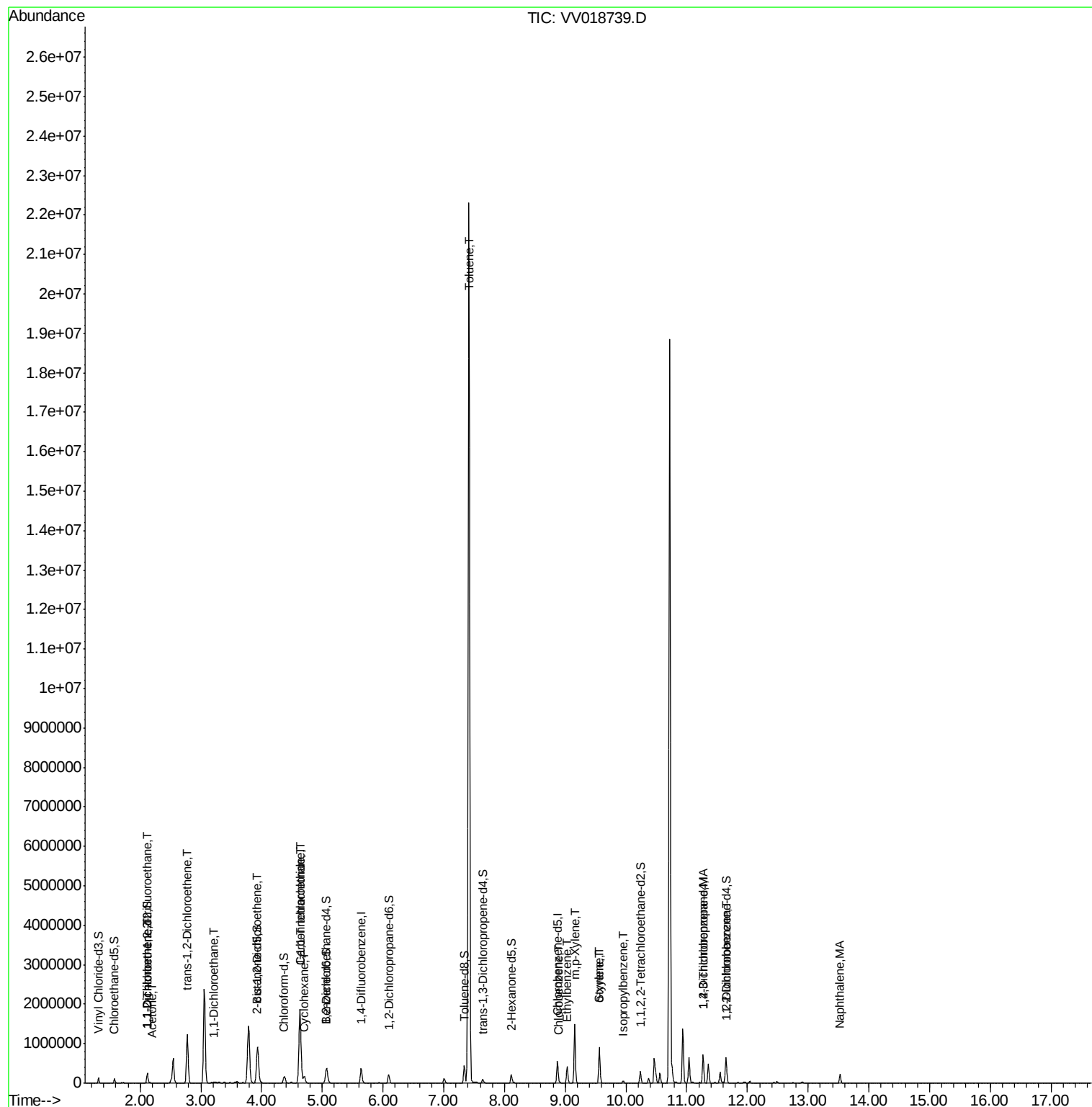
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.67	146	7314	1.308	ug/L	91
69) Naphthalene	13.53	128	177876	17.056	ug/L	100

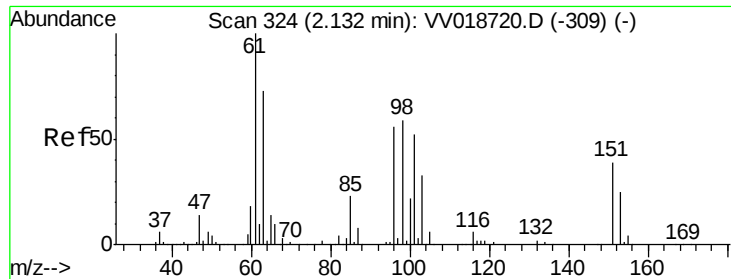
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.709 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

Instrument :

MSVOA_V

ClientSampleId :

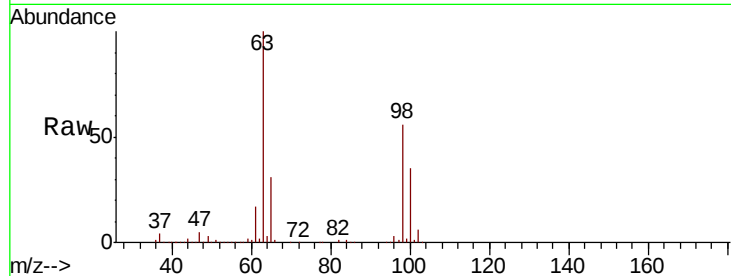
Tot Ion:101 Resp: 1413

Ion Ratio Lower Upper

101 100

85 6.0 34.6 52.0#

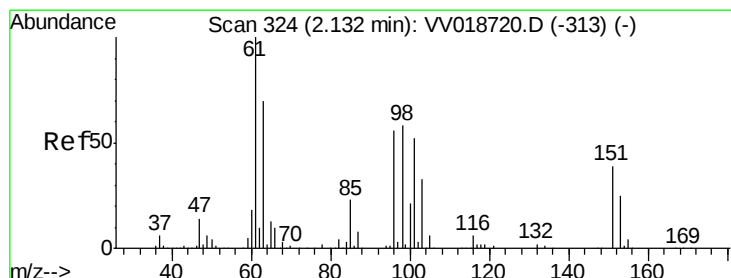
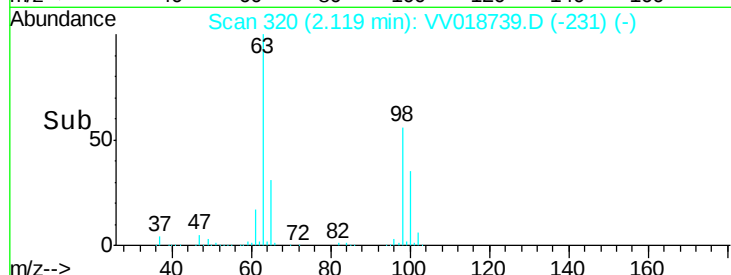
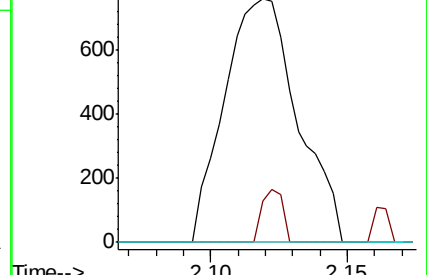
151 0.0 64.3 96.5#



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: 3.459 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

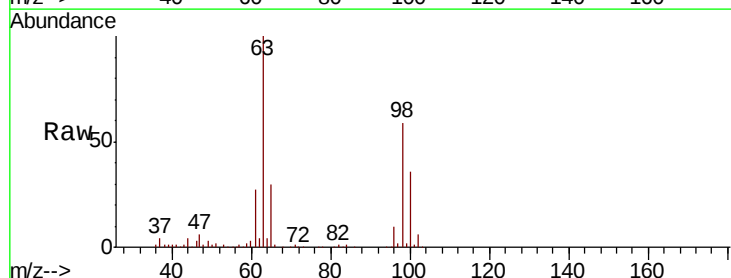
Tgt Ion: 96 Resp: 6611

Ion Ratio Lower Upper

96 100

61 268.7 122.8 228.1#

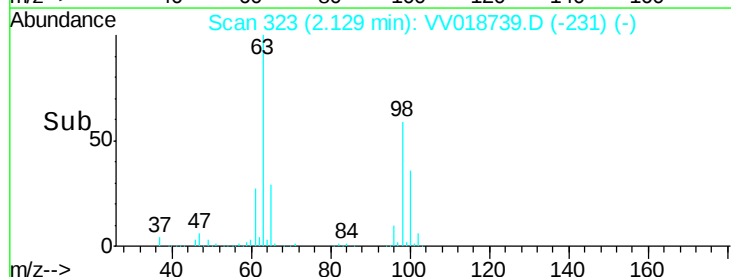
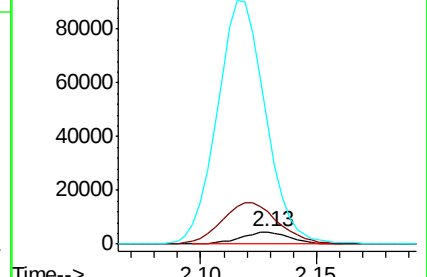
63 989.5 91.9 170.7#

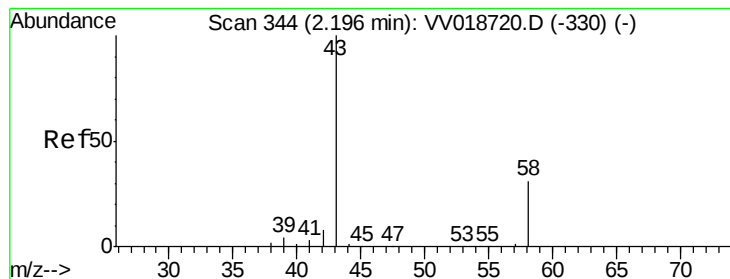


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.772 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

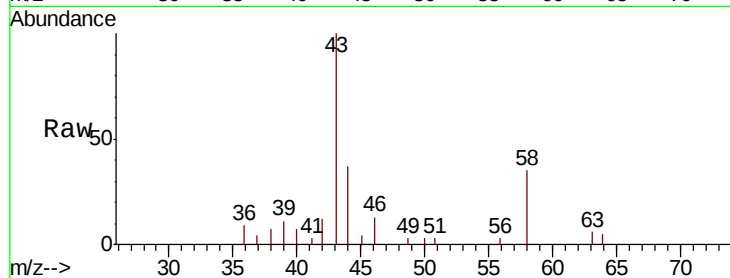
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 7835

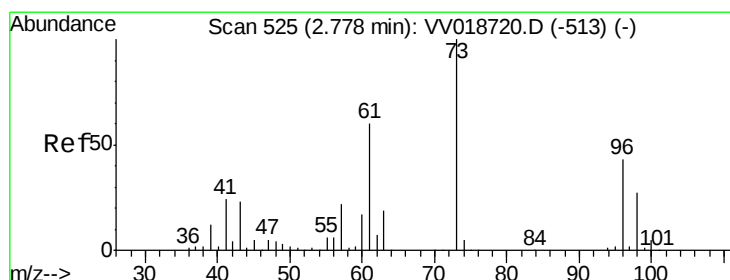
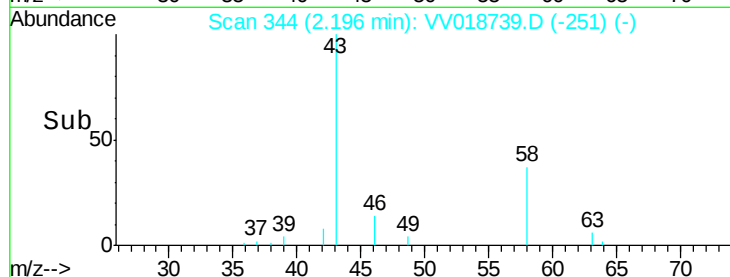
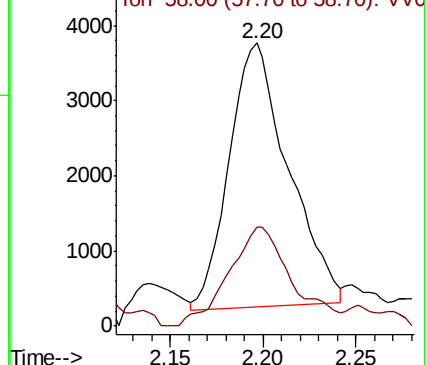
Ion Ratio Lower Upper

43 100

58 36.3 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0



#17

trans-1,2-Dichloroethene

Concen: 0.793 ug/L

RT: 2.78 min Scan# 524

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

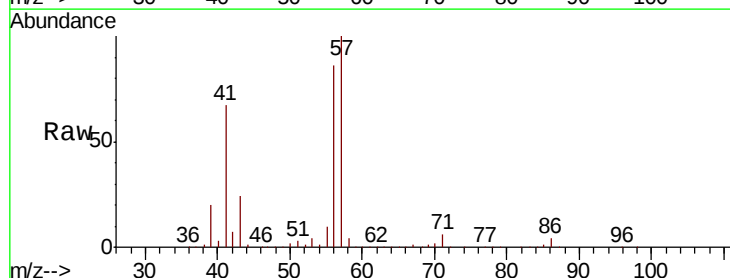
Tgt Ion: 96 Resp: 1734

Ion Ratio Lower Upper

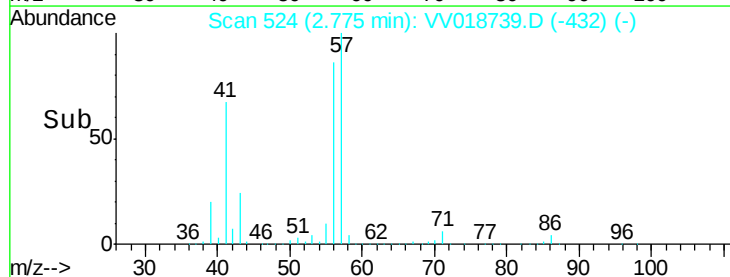
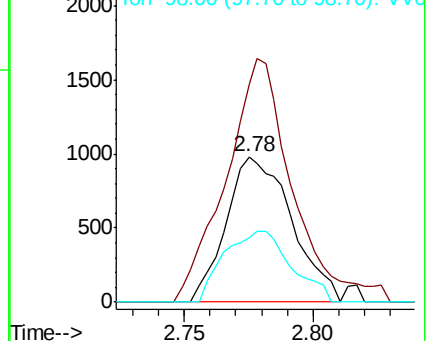
96 100

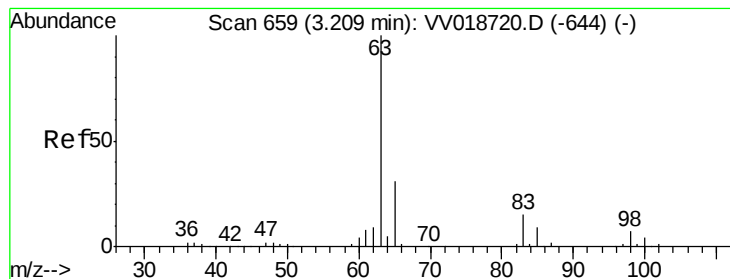
61 149.7 95.0 176.4

98 44.3 44.6 82.8#



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 3.662 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

Instrument :

MSVOA_V

ClientSampleId :

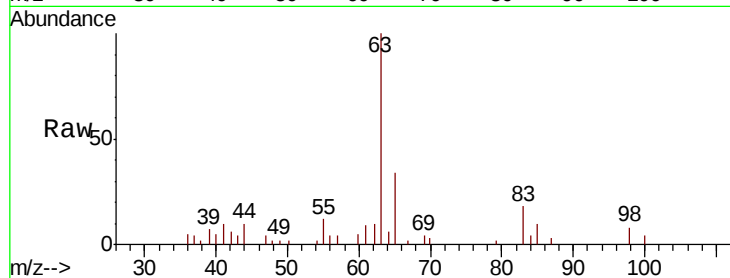
Tot Ion: 63 Resp: 14020

Ion Ratio Lower Upper

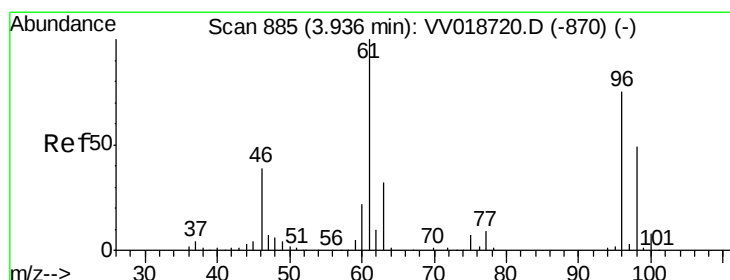
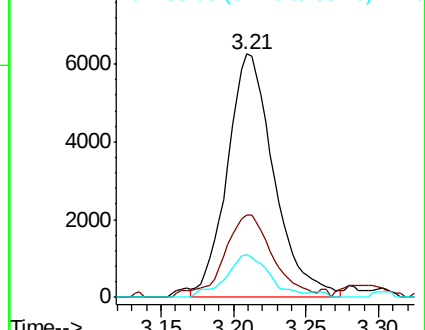
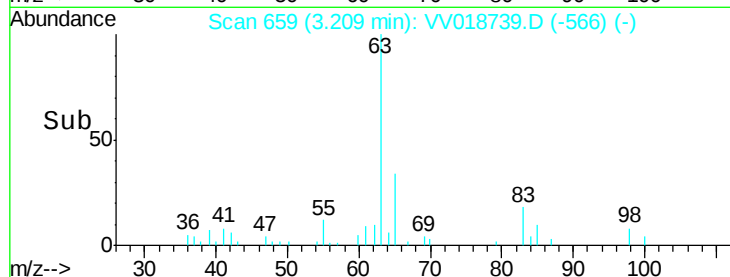
63 100

65 33.6 22.3 41.3

83 17.6 9.3 17.3#



Abundance Ion 63.00 (62.70 to 63.70): VV018739.D (-566) (-)



#20

cis-1,2-Dichloroethene

Concen: 206.600 ug/L

RT: 3.93 min Scan# 884

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

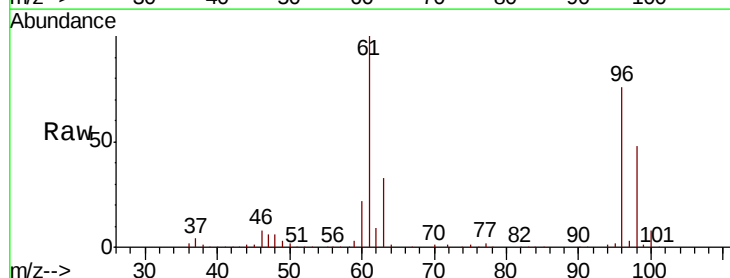
Tgt Ion: 96 Resp: 480119

Ion Ratio Lower Upper

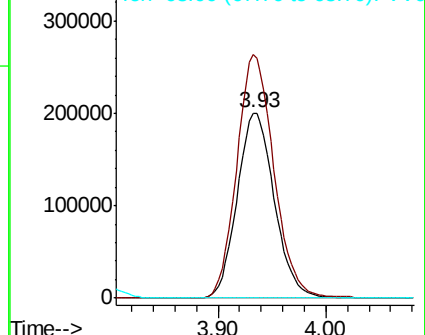
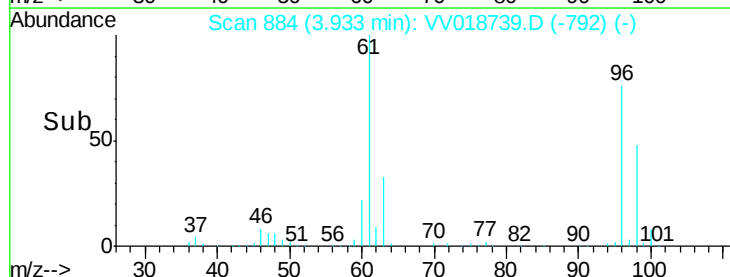
96 100

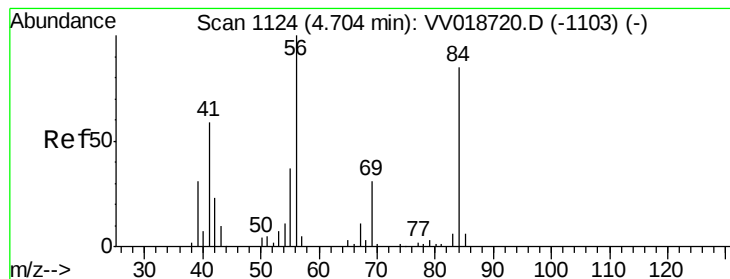
61 131.5 86.8 161.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV018739.D (-792) (-)





#29

Cvclohexane

Concen: 25.154 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

Instrument :
MSVOA_V
ClientSampled :

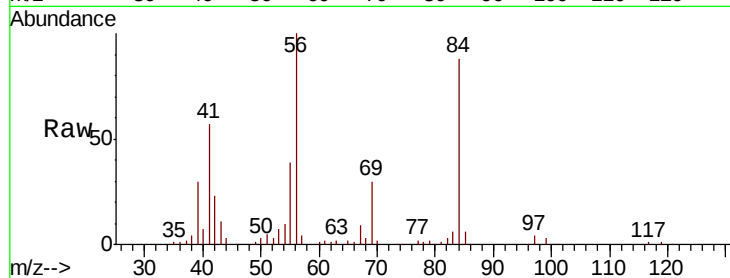
Tot Ion: 56 Resp: 83762

Ion Ratio Lower Upper

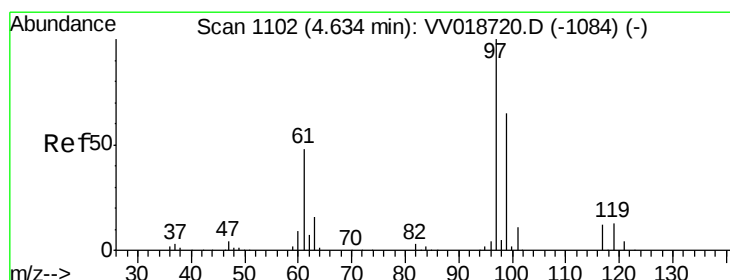
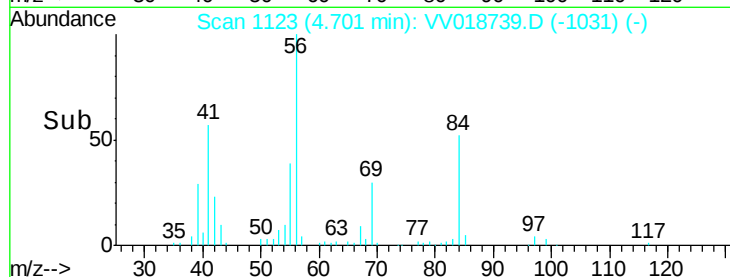
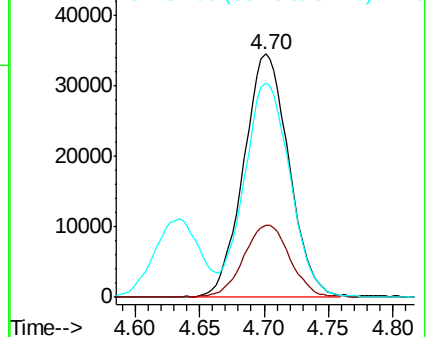
56 100

69 30.7 24.8 37.2

84 90.5 72.2 108.4



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 414.364 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

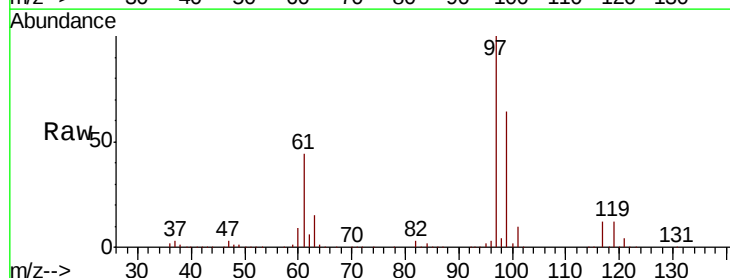
Tgt Ion: 97 Resp: 1501962

Ion Ratio Lower Upper

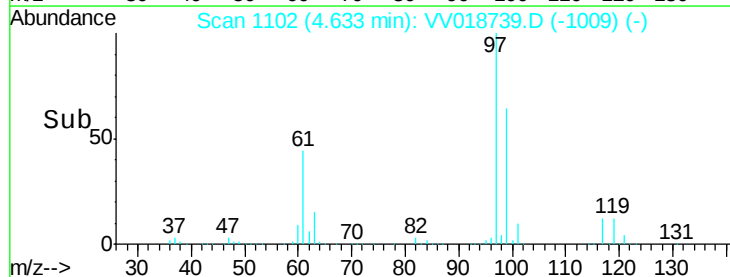
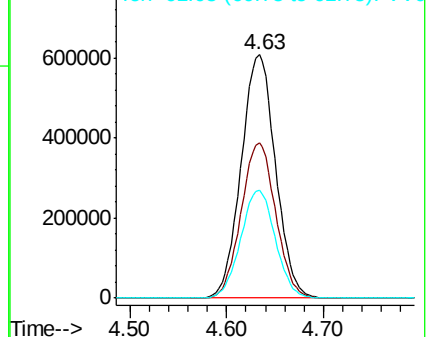
97 100

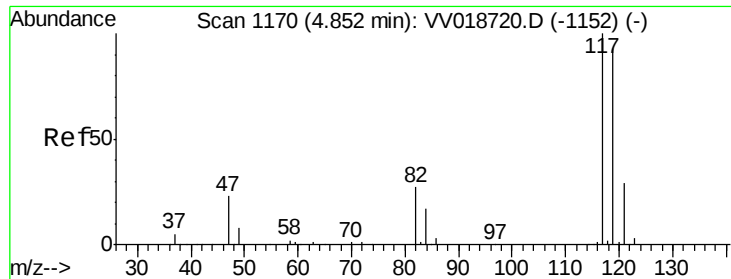
99 64.1 51.4 77.0

61 44.7 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

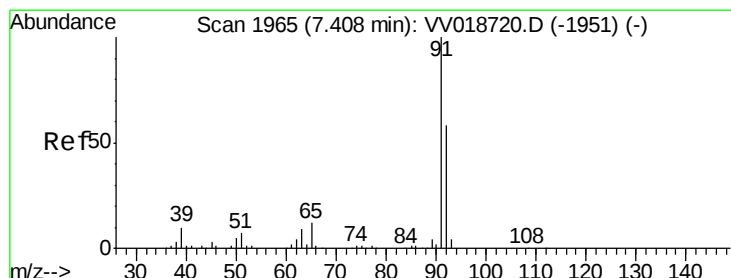
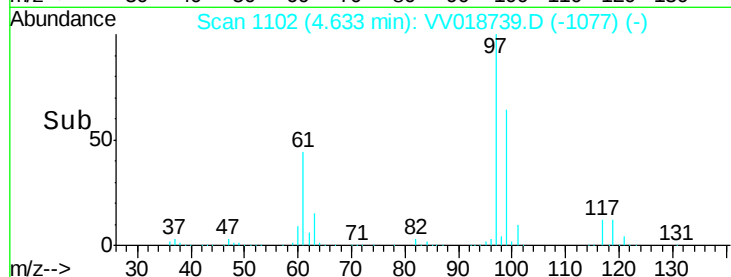
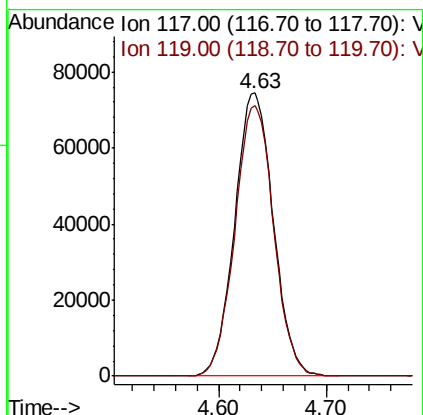
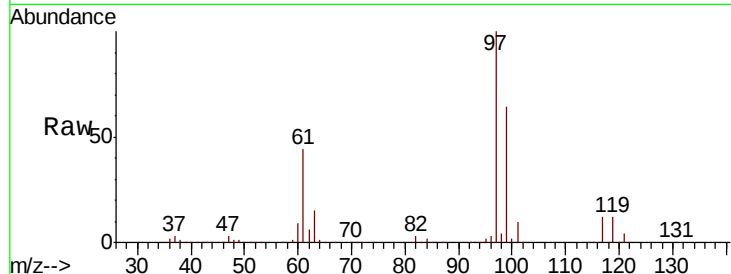




#31
Carbon tetrachloride
Concen: 56.977 ug/L
RT: 4.63 min Scan# 1102
Delta R.T. -0.22 min
Lab File: VV018739.D
Acq: 07 Oct 2020 19:48

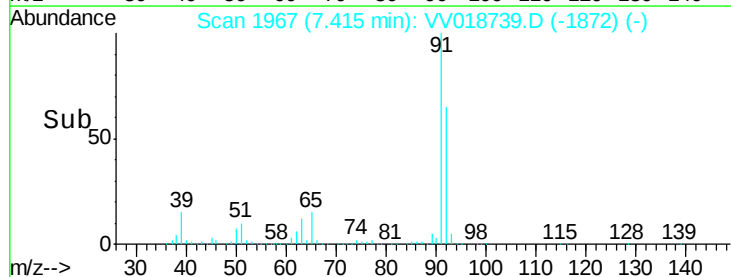
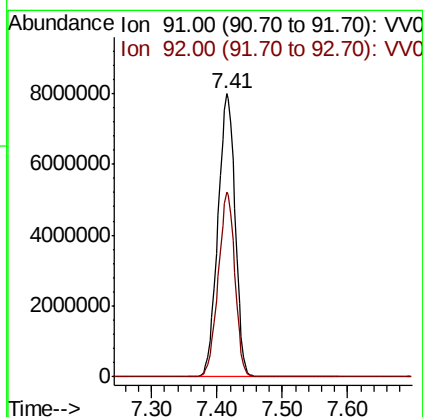
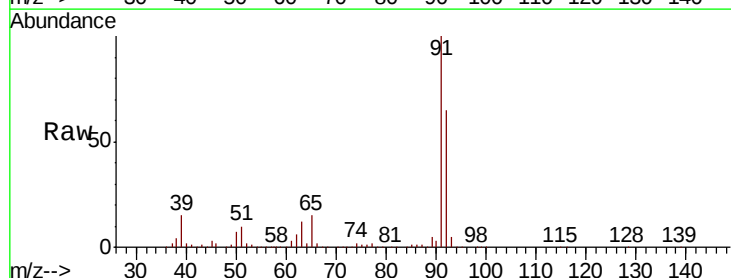
Instrument :
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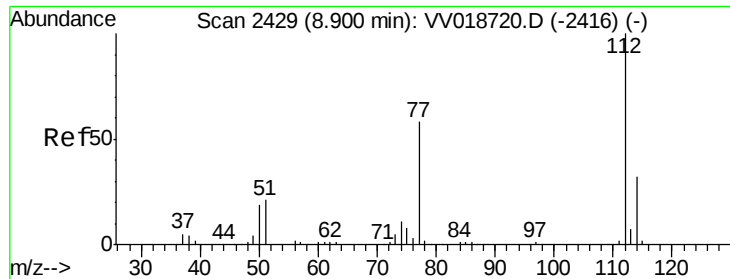
Tot Ion:117 Resp: 185353
Ion Ratio Lower Upper
117 100
119 95.9 77.0 115.6



#42
Toluene
Concen: 1579.913 ug/L
RT: 7.41 min Scan# 1967
Delta R.T. 0.01 min
Lab File: VV018739.D
Acq: 07 Oct 2020 19:48

Tgt Ion: 91 Resp:14660558
Ion Ratio Lower Upper
91 100
92 65.5 41.6 77.3

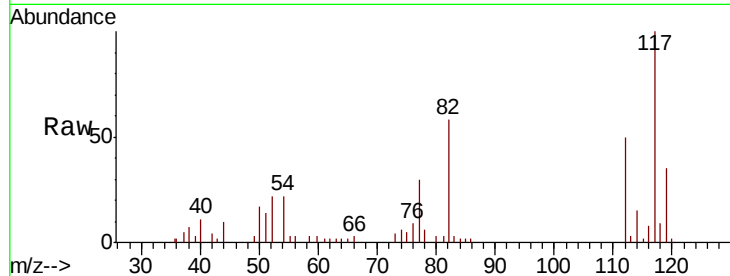




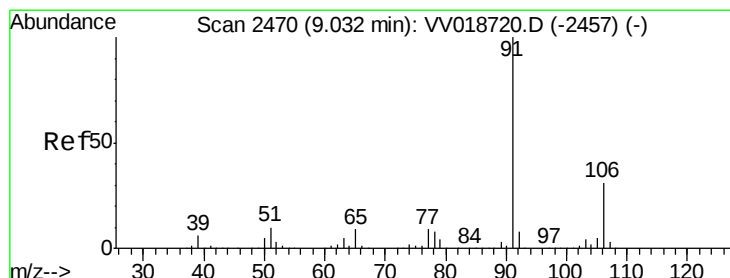
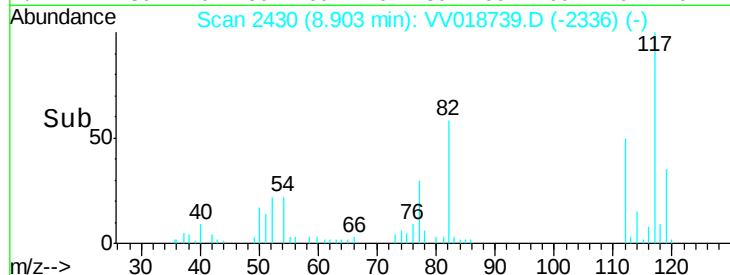
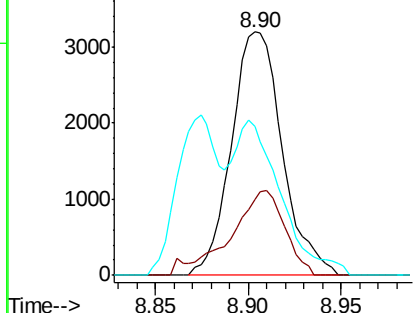
#51
Chlorobenzene
Concen: 0.972 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV018739.D
Acq: 07 Oct 2020 19:48

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:112 Resp: 6102
Ion Ratio Lower Upper
112 100
114 31.0 22.4 41.6
77 61.1 44.8 67.2

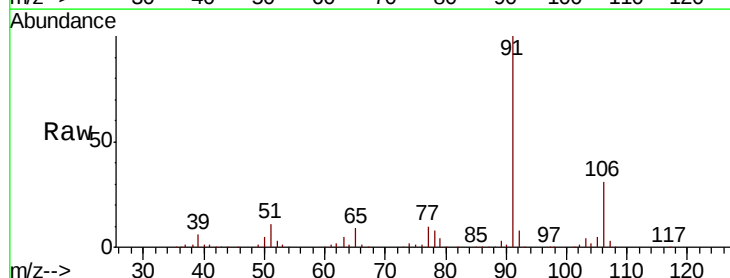


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

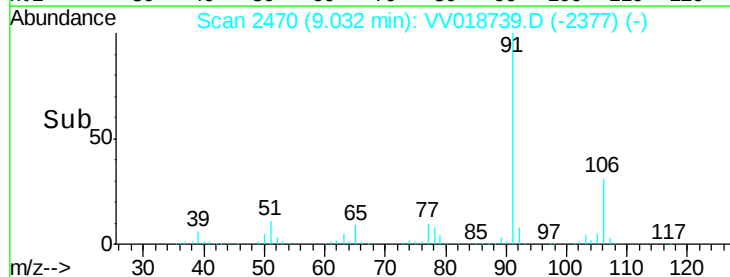
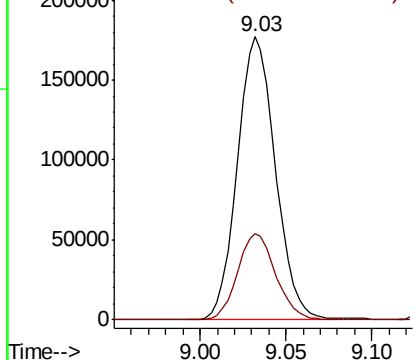


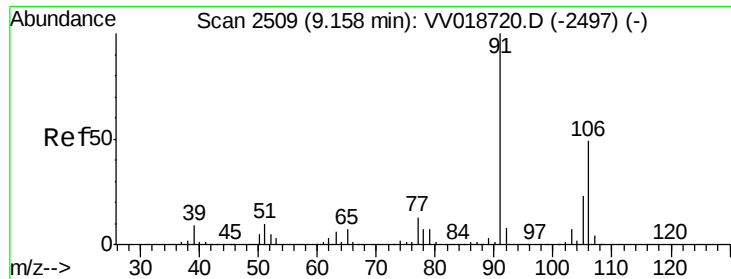
#52
Ethylbenzene
Concen: 26.300 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. -0.00 min
Lab File: VV018739.D
Acq: 07 Oct 2020 19:48

Tgt Ion: 91 Resp: 272545
Ion Ratio Lower Upper
91 100
106 30.6 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 97.600 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

Instrument :

MSVOA_V

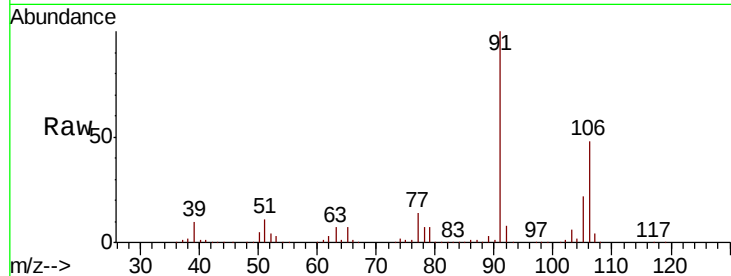
ClientSampled :

Tot Ion:106 Resp: 390878

Ion Ratio Lower Upper

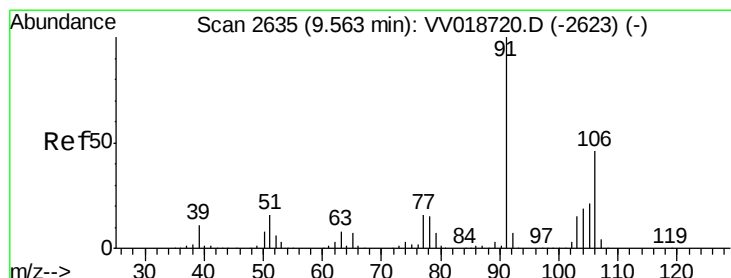
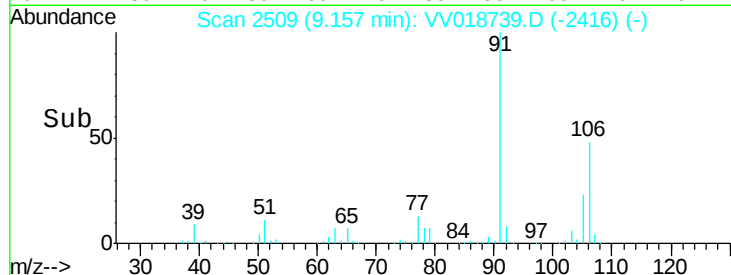
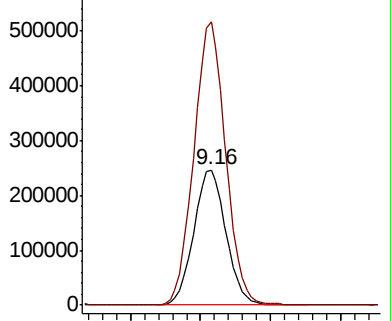
106 100

91 209.5 142.3 264.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 59.068 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV018739.D

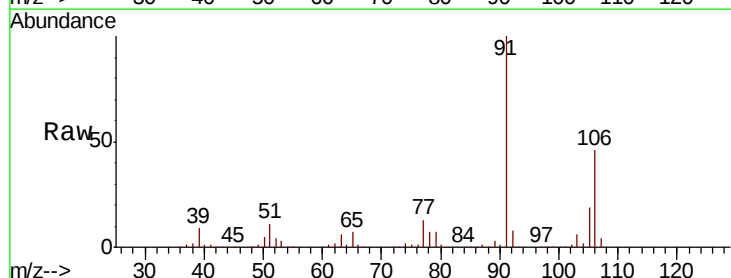
Acq: 07 Oct 2020 19:48

Tgt Ion:106 Resp: 223968

Ion Ratio Lower Upper

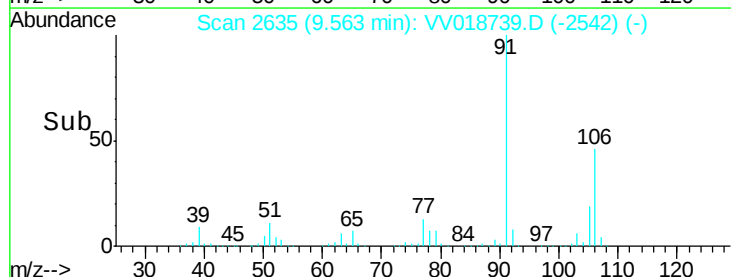
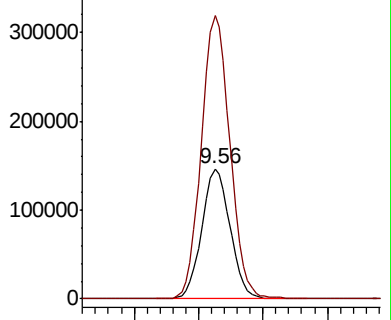
106 100

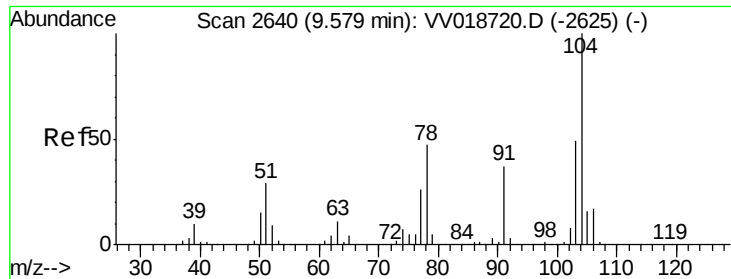
91 217.5 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

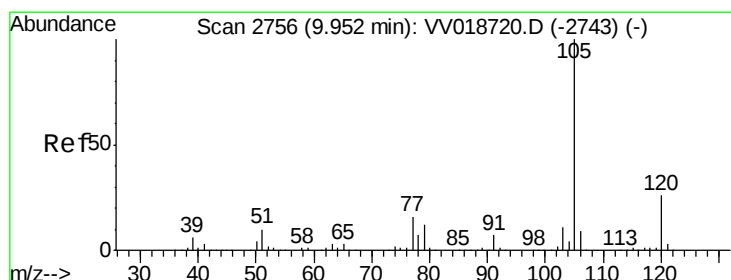
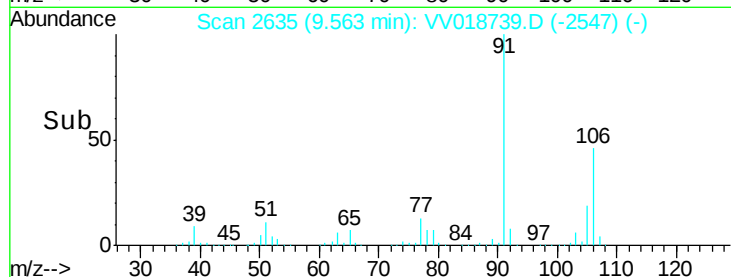
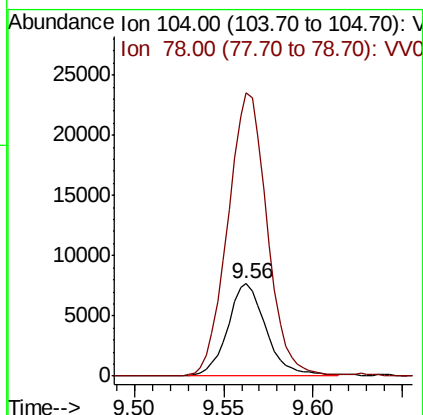
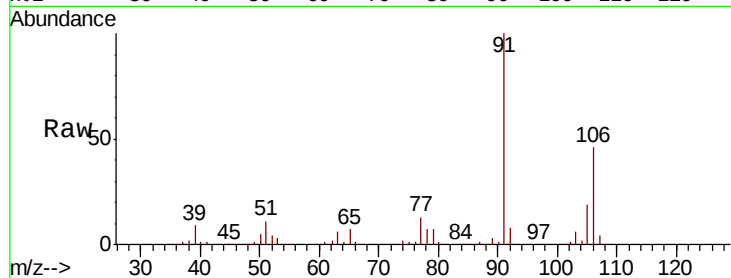




#55
Stvrene
Concen: 1.751 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.02 min
Lab File: VV018739.D
Acq: 07 Oct 2020 19:48

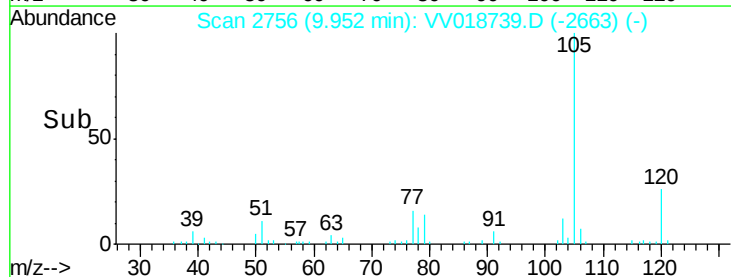
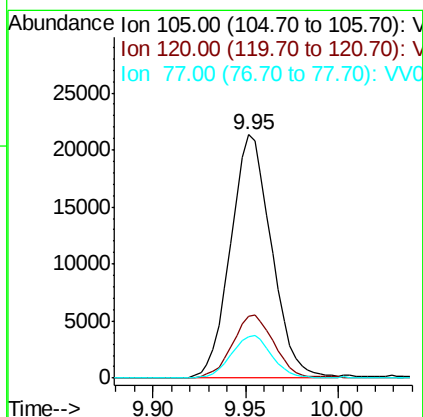
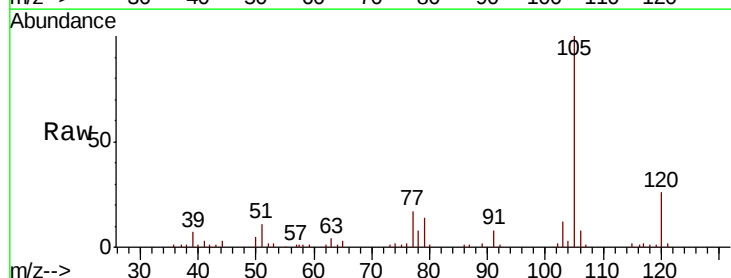
Instrument :
MSVOA_V
ClientSampleId :

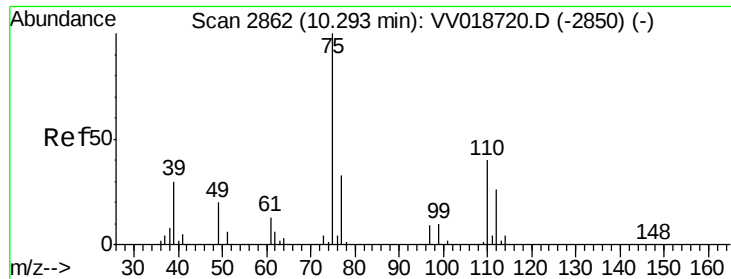
Tot Ion:104 Resp: 11562
Ion Ratio Lower Upper
104 100
78 307.2 30.2 56.2#



#56
Isopropylbenzene
Concen: 3.225 ug/L
RT: 9.95 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VV018739.D
Acq: 07 Oct 2020 19:48

Tgt Ion:105 Resp: 32795
Ion Ratio Lower Upper
105 100
120 26.2 21.5 32.3
77 17.3 12.2 18.2

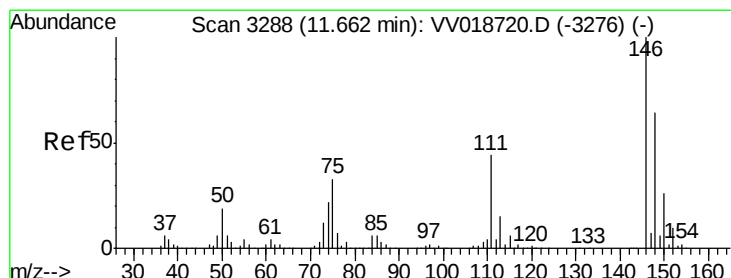
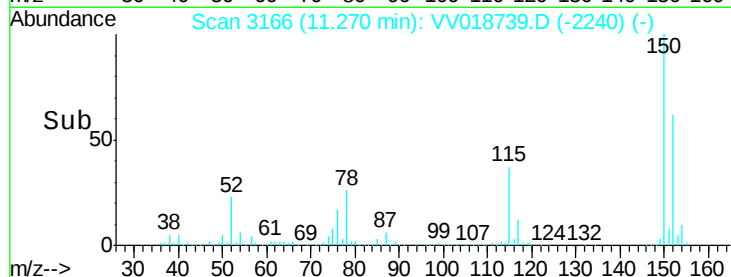
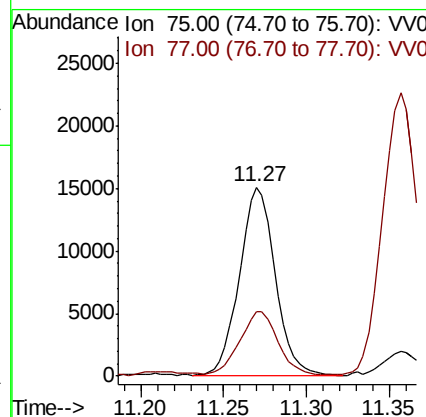
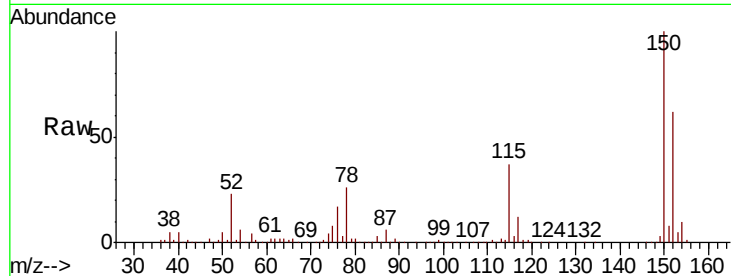




#59
 1,2,3-Trichloropropane
 Concen: 8.529 ug/L
 RT: 11.27 min Scan# 3166
 Delta R.T. 0.98 min
 Lab File: VV018739.D
 Acq: 07 Oct 2020 19:48

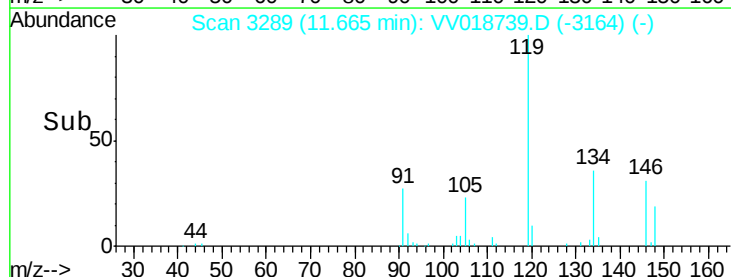
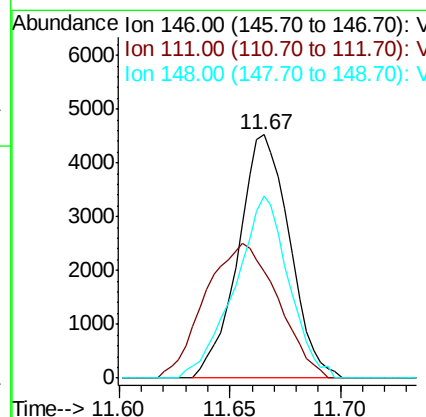
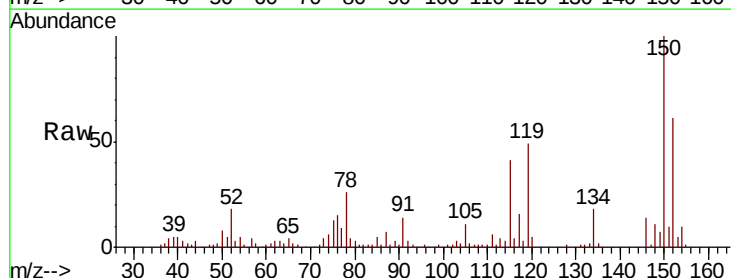
Instrument :
 MSVOA_V
 ClientSampled :

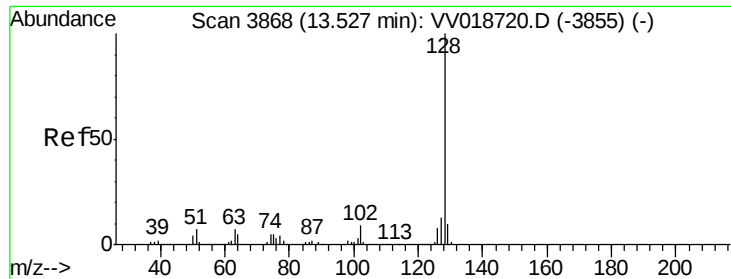
Tot Ion: 75 Resp: 22830
 Ion Ratio Lower Upper
 75 100
 77 34.8 25.4 38.0



#65
 1,2-Dichlorobenzene
 Concen: 1.308 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV018739.D
 Acq: 07 Oct 2020 19:48

Tgt Ion: 146 Resp: 7314
 Ion Ratio Lower Upper
 146 100
 111 43.9 32.8 49.2
 148 74.8 51.9 77.9





#69

Naphthalene

Concen: 17.056 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

Lab File: VV018739.D

Acq: 07 Oct 2020 19:48

Instrument :

MSVOA_V

ClientSampleId :

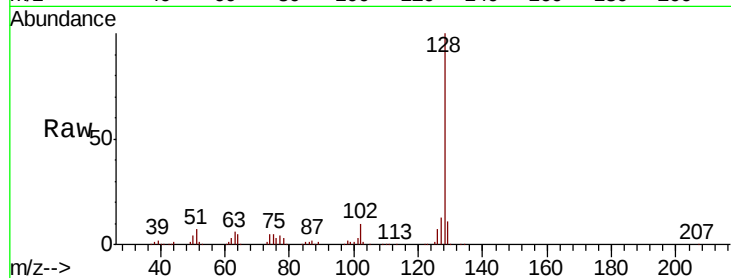
Tot Ion:128 Resp: 177876

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 10.8 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

