

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070220\
 Data File : VV017307.D
 Acq On : 02 Jul 2020 13:48
 Operator : SY/MD
 Sample : L3154-02
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 03 01:16:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 03 01:13:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	169999	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	163629	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	81417	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	53633	5.26	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	105.20%
7) Chloroethane-d5	1.58	69	37767	5.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.80%
11) 1,1-Dichloroethene-d2	2.13	63	81437	4.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.80%
20) 2-Butanone-d5	3.92	46	96555	37.13	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.26%
24) Chloroform-d	4.38	84	103480	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.06	65	55495	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.08	84	181904	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
36) 1,2-Dichloropropane-d6	6.10	67	56186	4.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.40%
41) Toluene-d8	7.34	98	159251	4.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.00%
45) trans-1,3-Dichloropropene-	7.64	79	20805	3.93	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.60%
48) 2-Hexanone-d5	8.11	63	66329	32.89	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	65.78%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	39280	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	70983	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
3) Chloromethane	1.32	50	27422	2.385 ug/L #	54
5) Vinyl chloride	1.32	62	1835354	164.529 ug/L	100
8) Chloroethane	1.52	64	155674	25.251 ug/L #	51
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1355	0.150 ug/L #	21
12) 1,1-Dichloroethene	2.14	96	30048	3.683 ug/L	89
13) Acetone	2.20	43	4136	3.146 ug/L	64
14) Carbon disulfide	2.32	76	5470	0.224 ug/L	98
15) Methyl Acetate	2.45	43	4326	1.346 ug/L #	53
16) Methylene chloride	2.52	84	1830	0.209 ug/L #	78
17) Methyl tert-butyl Ether	2.78	73	1880	0.092 ug/L #	1
18) trans-1,2-Dichloroethene	2.78	96	427558	49.453 ug/L	99
19) 1,1-Dichloroethane	3.21	63	15226	0.784 ug/L	98
22) cis-1,2-Dichloroethene	3.94	96	2129473	180.114 ug/L #	97
27) 1,2-Dichloroethane	5.16	62	2257	0.171 ug/L #	76
33) Benzene	5.13	78	68886	1.608 ug/L	100
34) Trichloroethene	5.94	95	395009	31.481 ug/L	98
35) Methylcyclohexane	6.16	83	2390	0.123 ug/L #	80

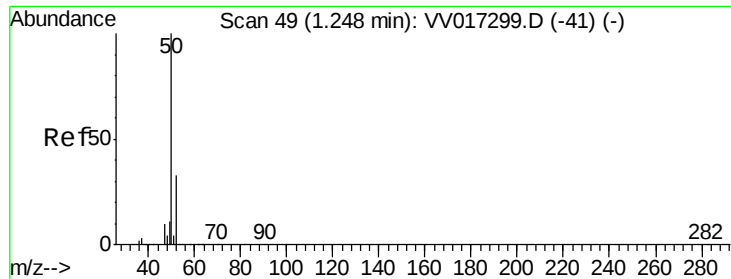
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070220\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 03 01:13:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.01	75	2066	0.131	ug/L	85
42) Toluene	7.41	91	115885	2.326	ug/L	100
43) 1,3,5-Trimethylbenzene	10.94	105	3932	0.088	ug/L	96
44) 1,2,4-Trimethylbenzene	10.94	105	3932	0.087	ug/L	91
46) trans-1,3-Dichloropropene	7.64	75	1060	0.078	ug/L	92
47) 1,1,2-Trichloroethane	7.86	97	702	0.093	ug/L #	85
50) 2-Hexanone	8.16	43	3686	0.846	ug/L #	72
53) Chlorobenzene	8.91	112	2307	0.074	ug/L	90
54) Ethylbenzene	9.04	91	31468	0.592	ug/L	94
55) m,p-xylene	9.16	106	21642	1.038	ug/L	99
56) o-xylene	9.57	106	10624	0.546	ug/L	94
58) Isopropylbenzene	9.96	105	3205	0.060	ug/L #	96
70) Naphthalene	13.53	128	4211	0.184	ug/L #	82

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



#3

Chloromethane

Concen: 2.385 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.07 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

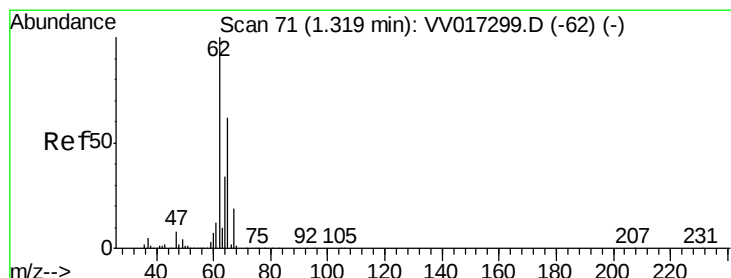
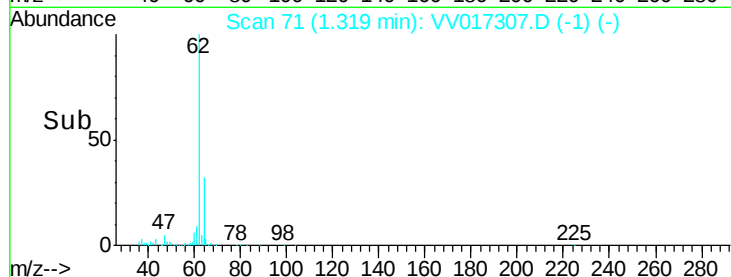
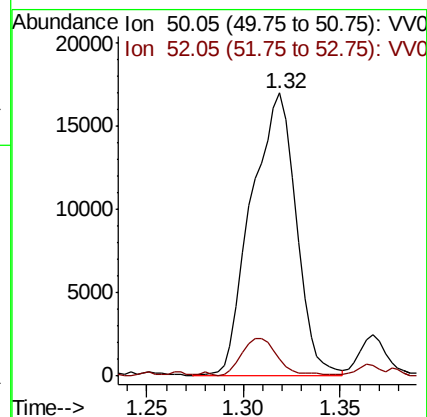
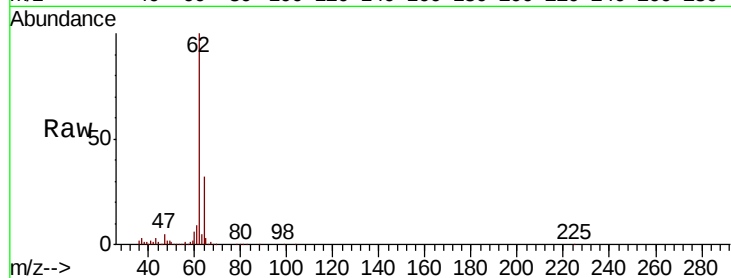
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 50 Resp: 27422

Ion Ratio Lower Upper

50 100

52 6.3 22.5 41.9#



#5

Vinyl chloride

Concen: 164.529 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017307.D

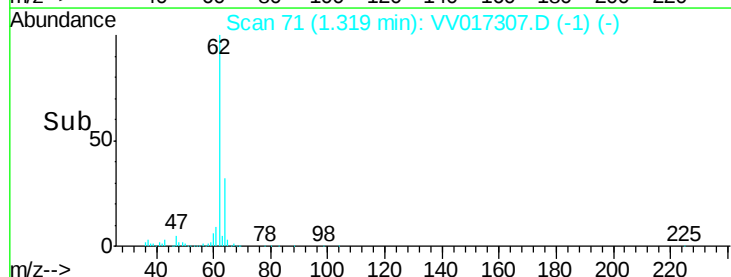
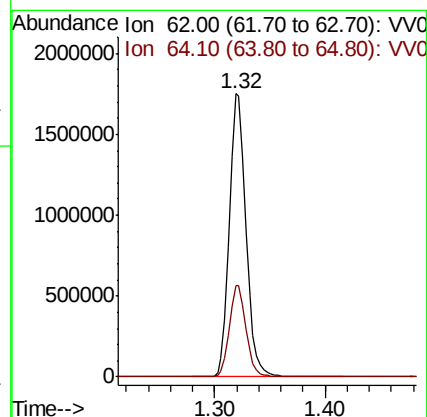
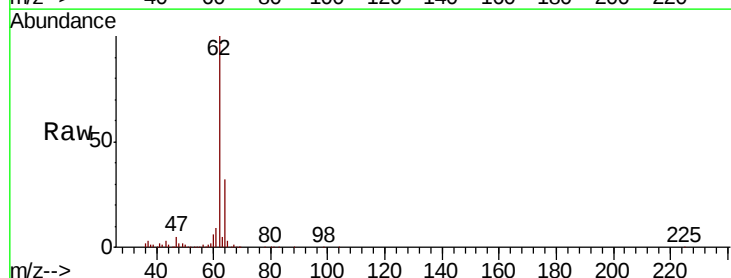
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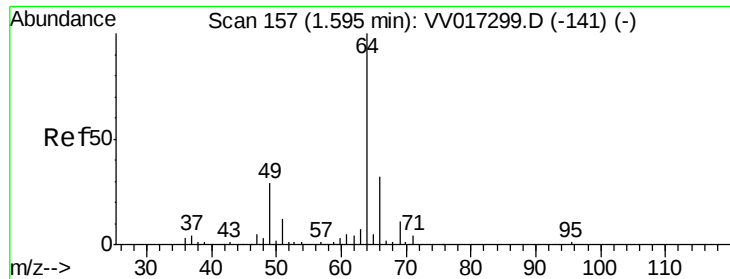
Tgt Ion: 62 Resp: 1835354

Ion Ratio Lower Upper

62 100

64 32.4 22.5 41.7

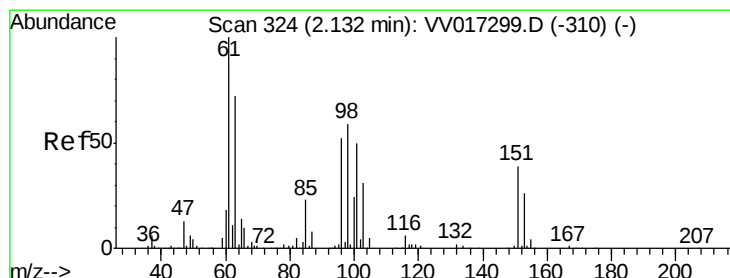
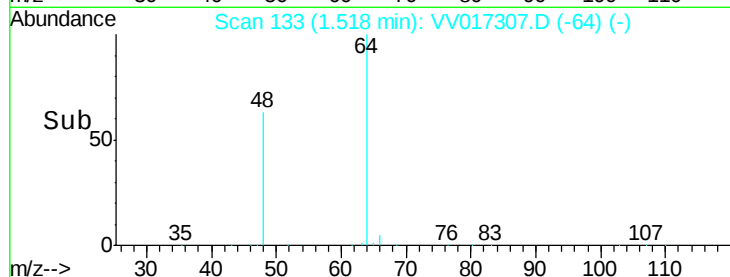
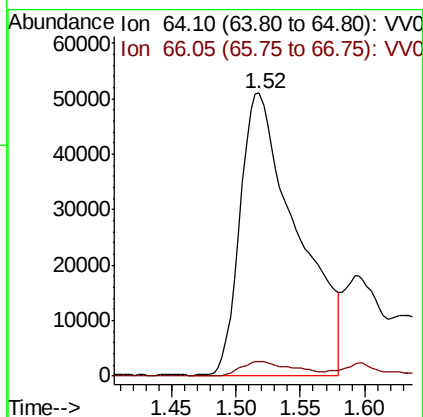
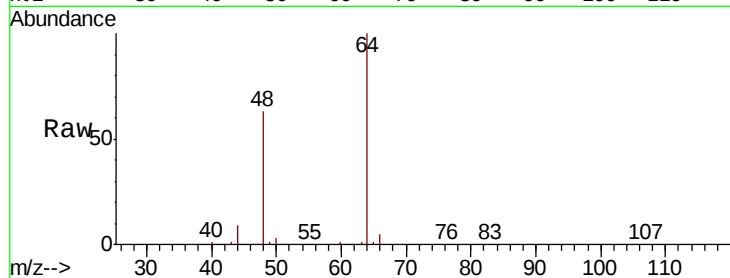




#8
Chloroethane
Concen: 25.251 ug/L
RT: 1.52 min Scan# 133
Delta R.T. -0.08 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

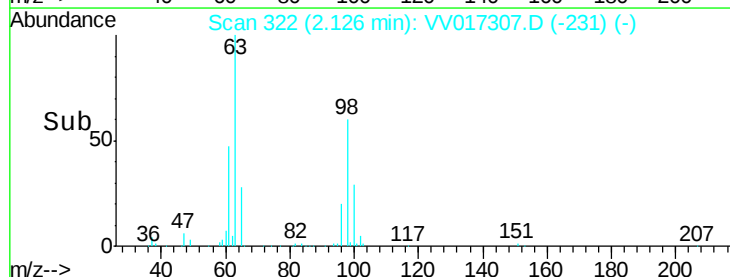
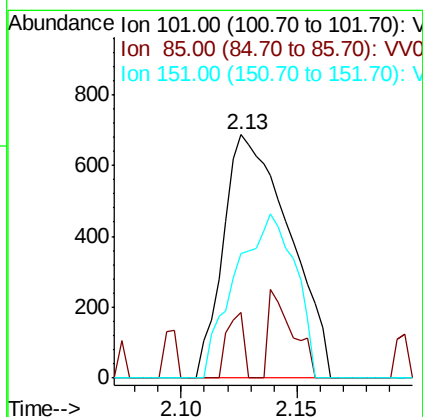
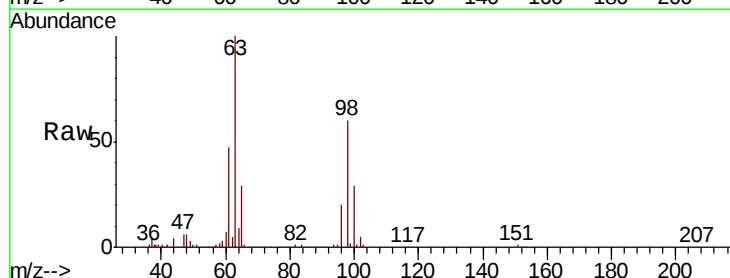
Instrument :
MSVOA_V
ClientSampled :

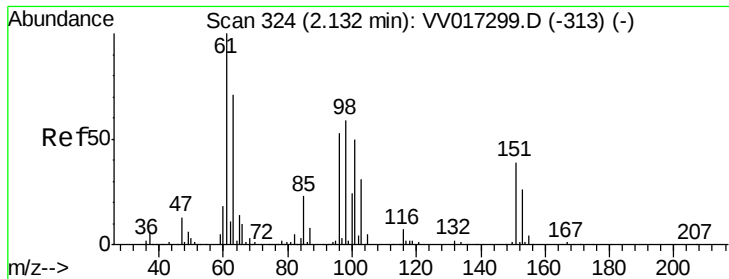
Tot Ion: 64 Resp: 155674
Ion Ratio Lower Upper
64 100
66 5.2 22.8 42.4#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.150 ug/L
RT: 2.13 min Scan# 322
Delta R.T. -0.01 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

Tgt Ion:101 Resp: 1355
Ion Ratio Lower Upper
101 100
85 6.8 35.4 53.2#
151 0.0 63.9 95.9#





#12

1,1-Dichloroethene

Concen: 3.683 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

Instrument :
MSVOA_V
ClientSampled :

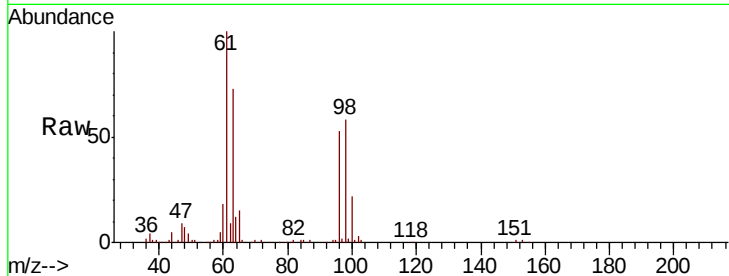
Tot Ion: 96 Resp: 30048

Ion Ratio Lower Upper

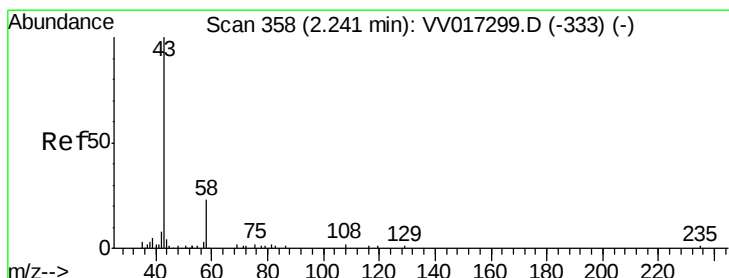
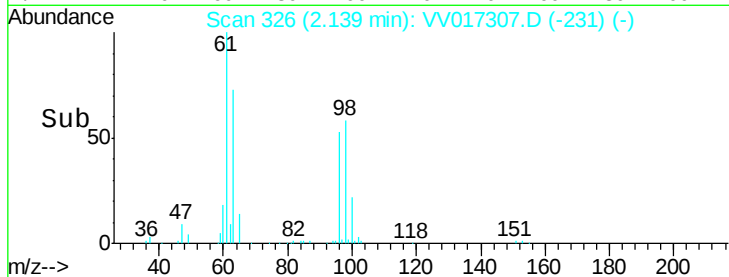
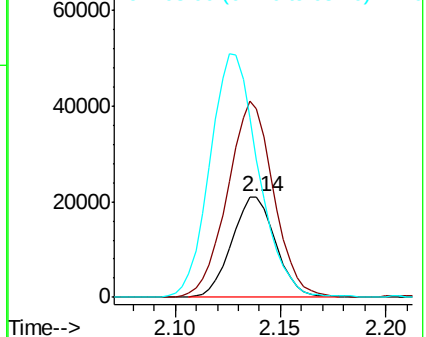
96 100

61 188.3 125.0 232.2

63 136.6 109.8 203.8



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: 3.146 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.04 min

Lab File: VV017307.D

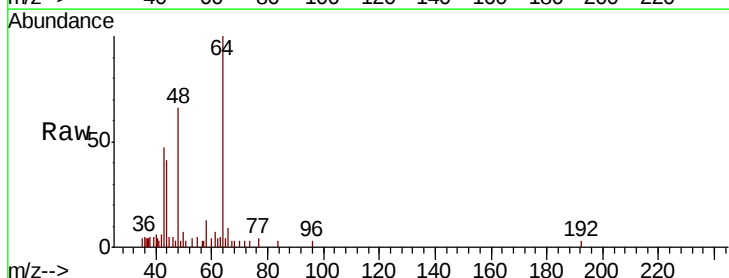
Acq: 02 Jul 2020 13:48

Tgt Ion: 43 Resp: 4136

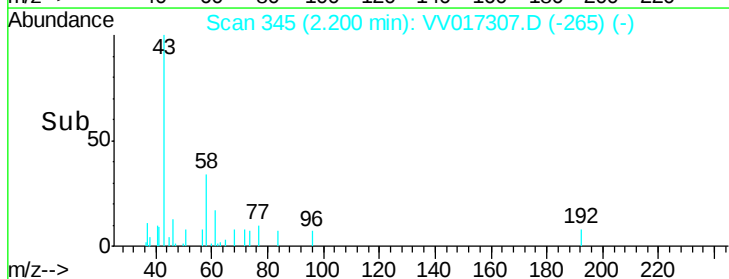
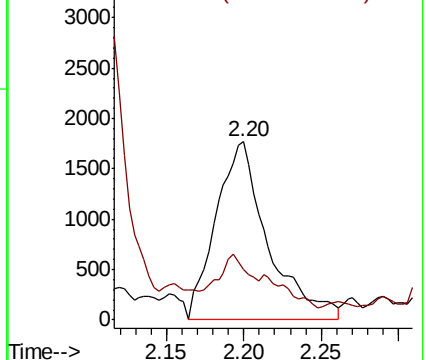
Ion Ratio Lower Upper

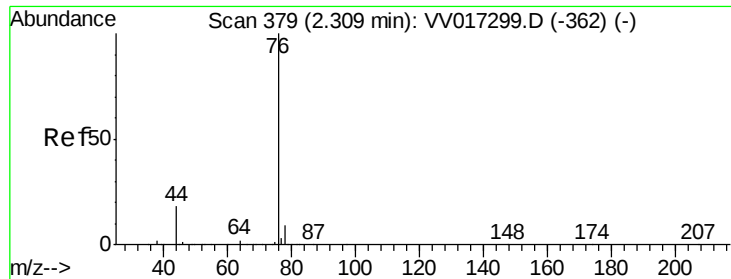
43 100

58 10.0 0.0 58.4



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





#14

Carbon disulfide

Concen: 0.224 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

Instrument :

MSVOA_V

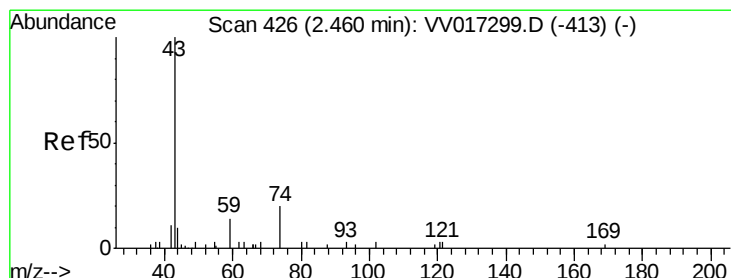
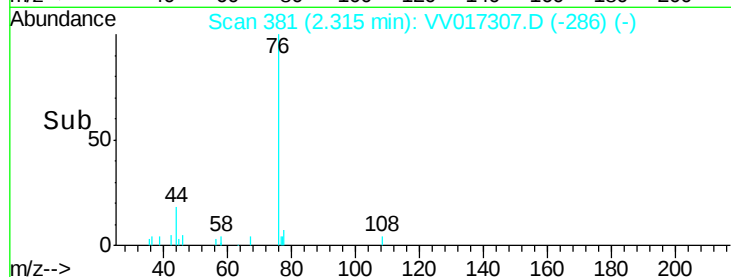
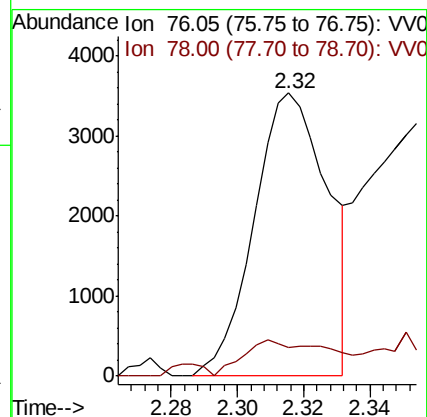
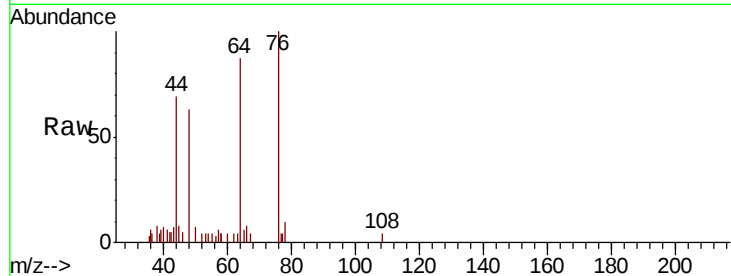
ClientSampled :

Tot Ion: 76 Resp: 5470

Ion Ratio Lower Upper

76 100

78 10.2 7.7 11.5



#15

Methyl Acetate

Concen: 1.346 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.01 min

Lab File: VV017307.D

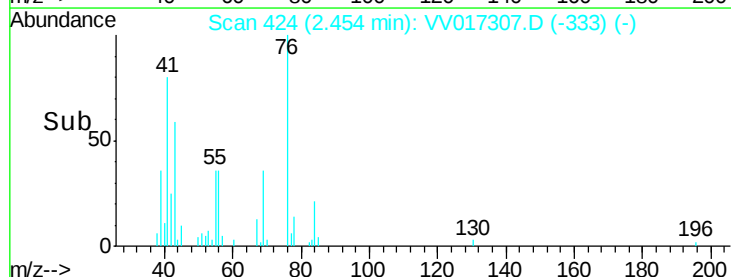
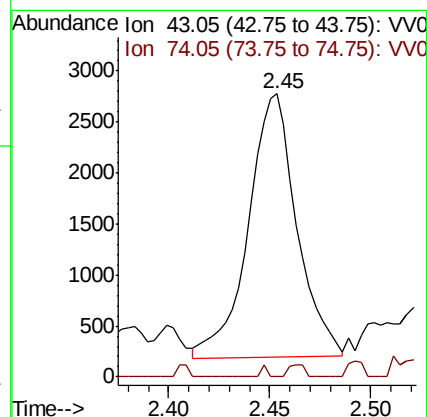
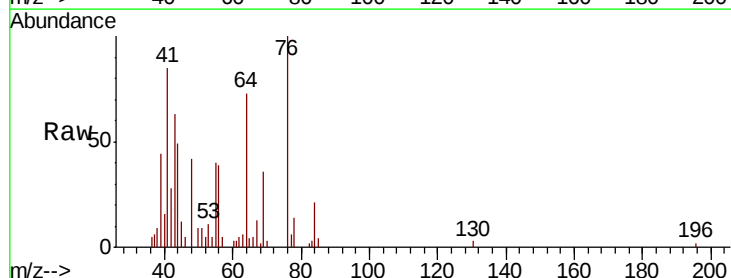
Acq: 02 Jul 2020 13:48

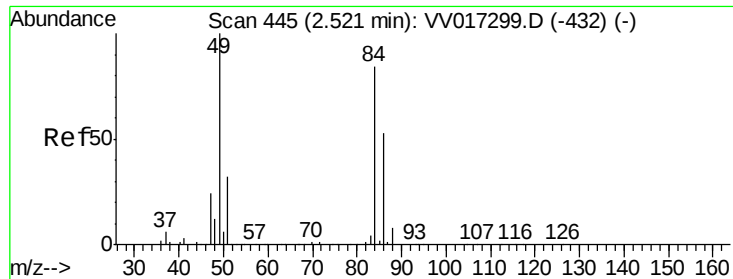
Tgt Ion: 43 Resp: 4326

Ion Ratio Lower Upper

43 100

74 0.5 19.1 28.7#

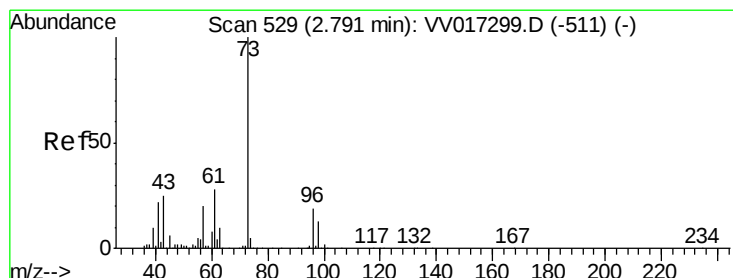
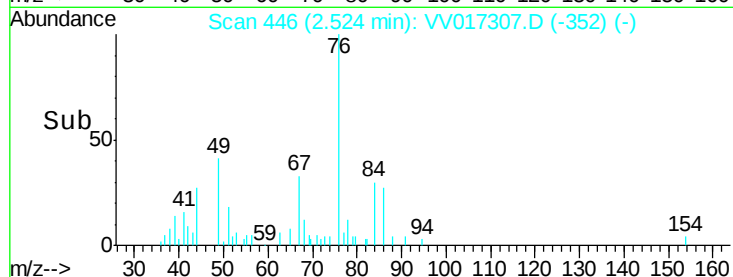
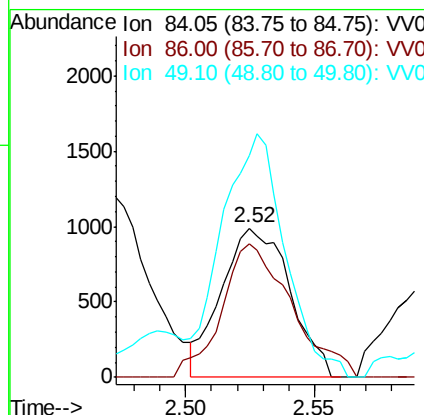
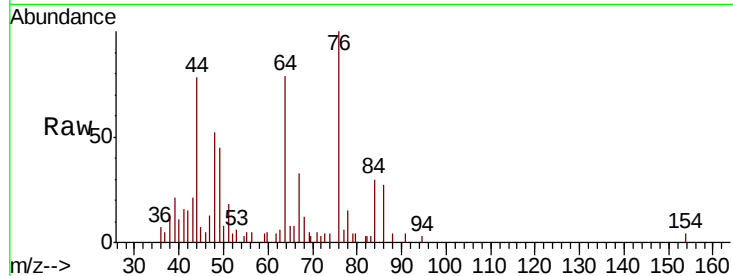




#16
Methvlene chloride
Concen: 0.209 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

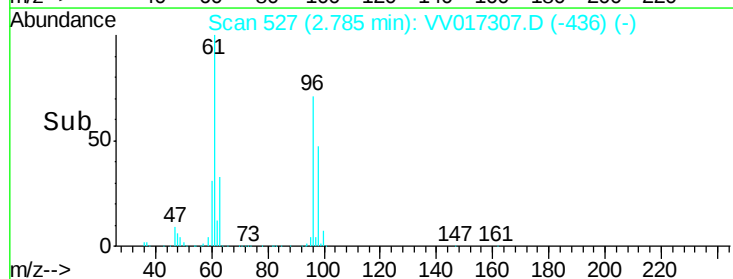
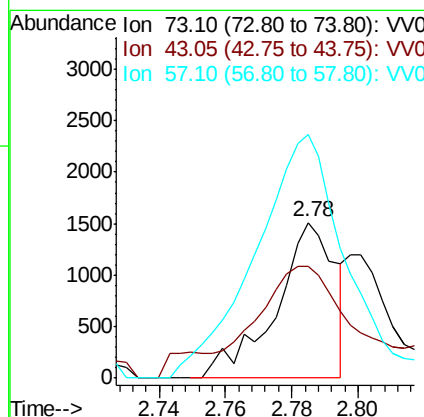
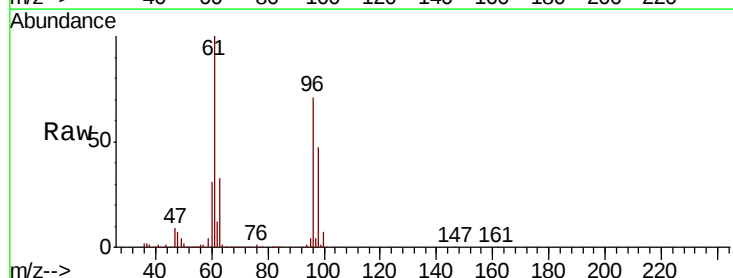
Instrument :
MSVOA_V
ClientSampled :

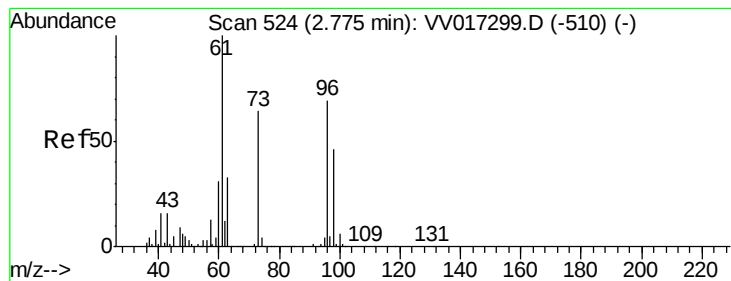
Tot Ion: 84 Resp: 1830
Ion Ratio Lower Upper
84 100
86 89.2 45.8 85.0#
49 148.3 89.6 166.4



#17
Methyl tert-butyl Ether
Concen: 0.092 ug/L
RT: 2.78 min Scan# 527
Delta R.T. -0.01 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

Tgt Ion: 73 Resp: 1880
Ion Ratio Lower Upper
73 100
43 126.6 18.6 28.0#
57 239.5 16.4 24.6#





#18

trans-1,2-Dichloroethene

Concen: 49.453 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

Instrument :
MSVOA_V
ClientSampleId :

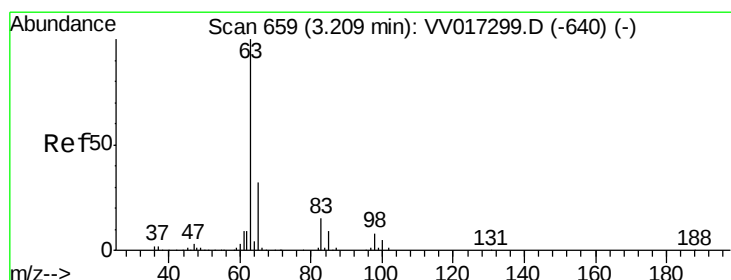
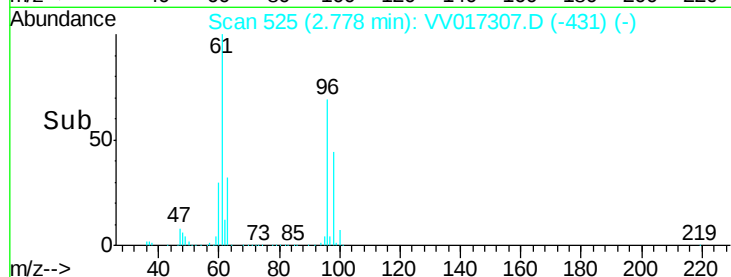
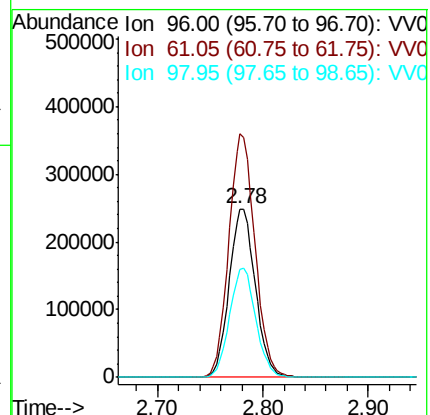
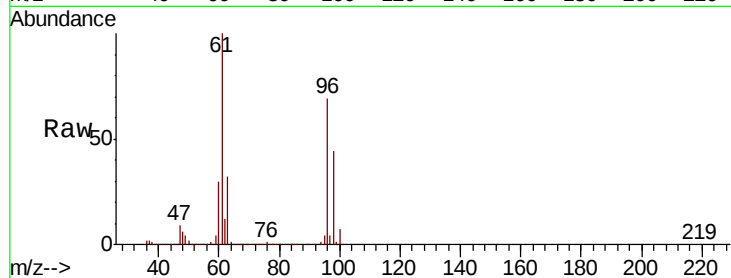
Tot Ion: 96 Resp: 427558

Ion Ratio Lower Upper

96 100

61 144.6 102.3 189.9

98 64.1 44.7 82.9



#19

1,1-Dichloroethane

Concen: 0.784 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

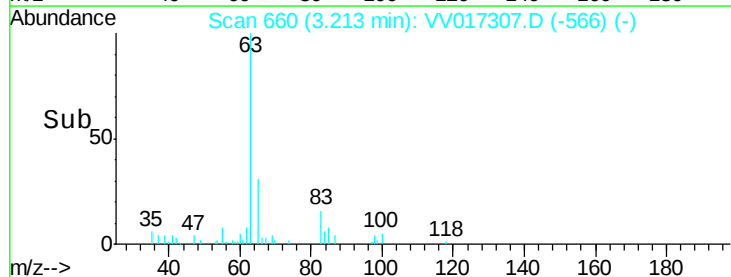
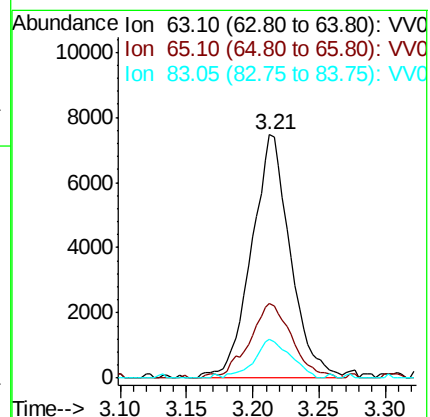
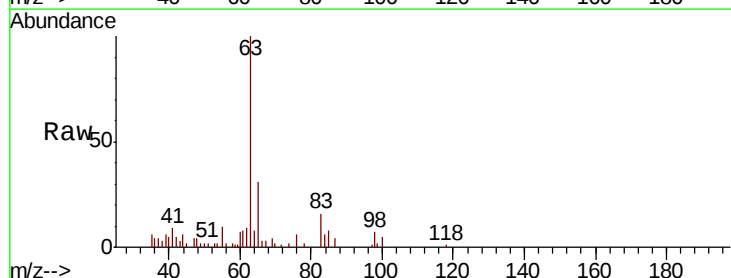
Tgt Ion: 63 Resp: 15226

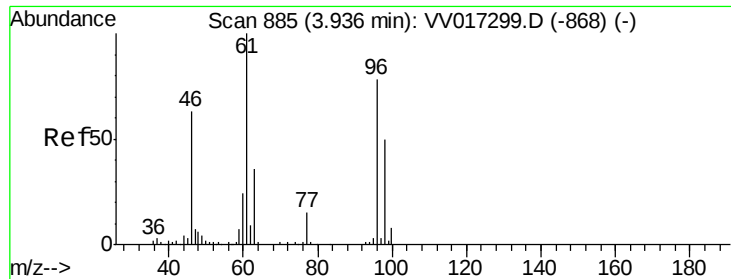
Ion Ratio Lower Upper

63 100

65 30.6 21.8 40.4

83 16.0 9.7 17.9



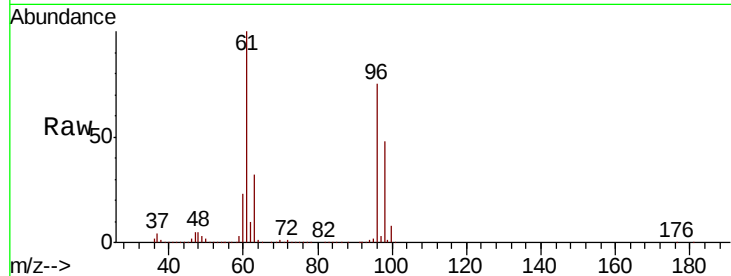


#22

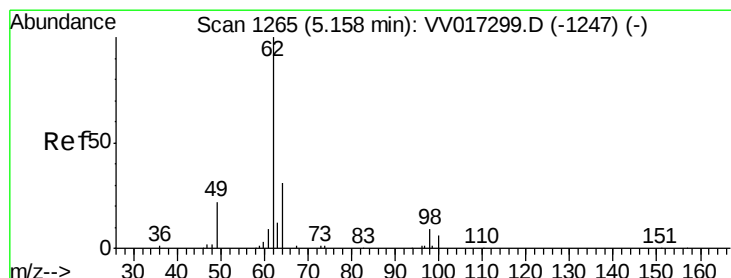
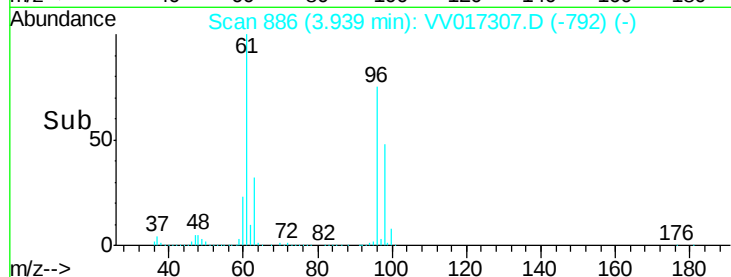
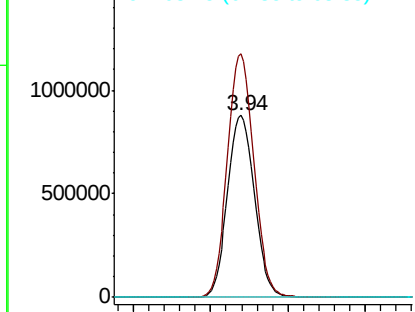
cis-1,2-Dichloroethene
 Concen: 180.114 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV017307.D
 Acq: 02 Jul 2020 13:48

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 96 Resp: 2129473
 Ion Ratio Lower Upper
 96 100
 61 133.7 91.0 169.0
 68 0.0 0.0 0.0#



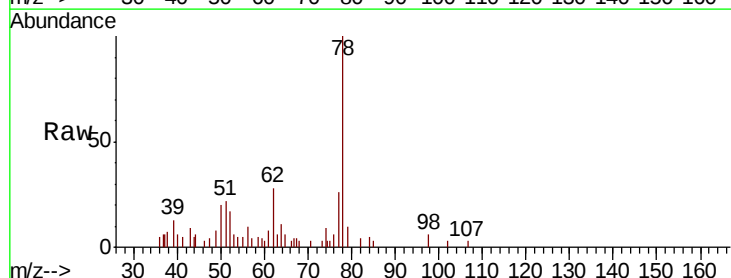
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



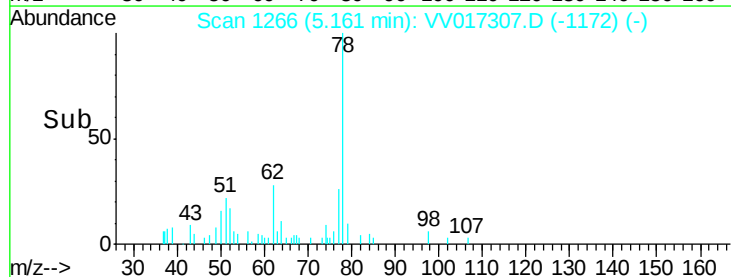
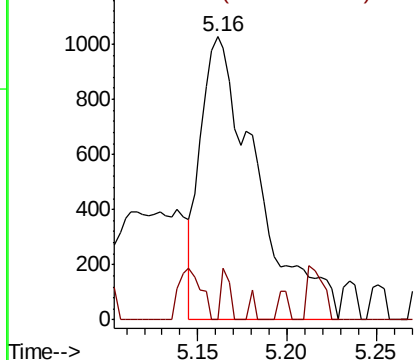
#27

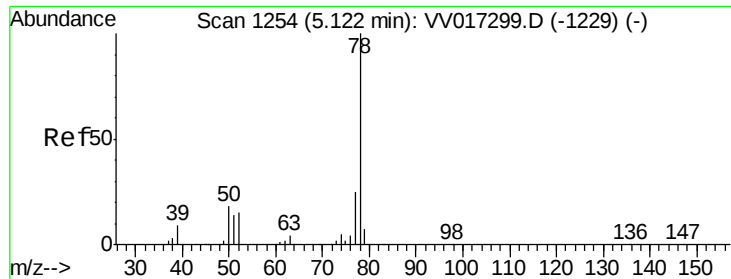
1,2-Dichloroethane
 Concen: 0.171 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VV017307.D
 Acq: 02 Jul 2020 13:48

Tgt Ion: 62 Resp: 2257
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.7 10.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.05 (97.75 to 98.75): VV0

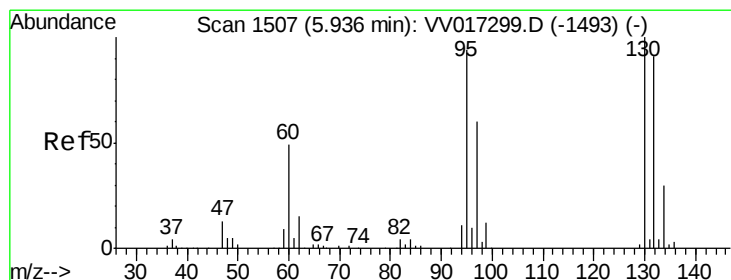
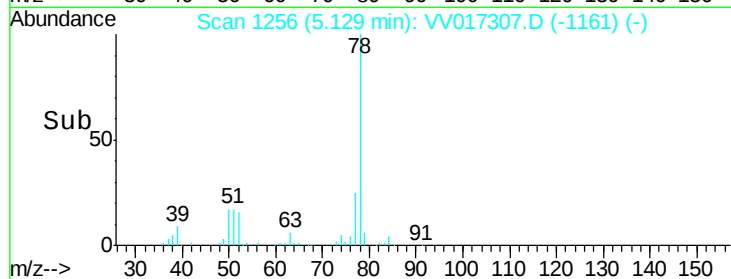
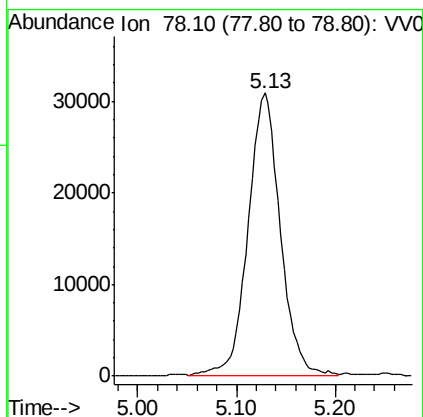
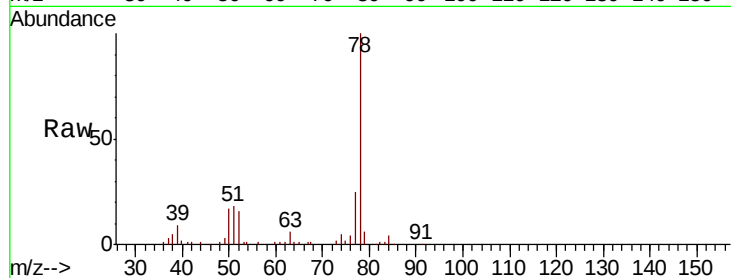




#33
Benzene
Concen: 1.608 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.01 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

Tgt Ion: 78 Resp: 68886

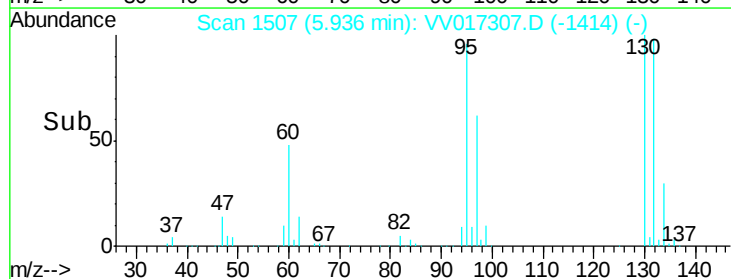
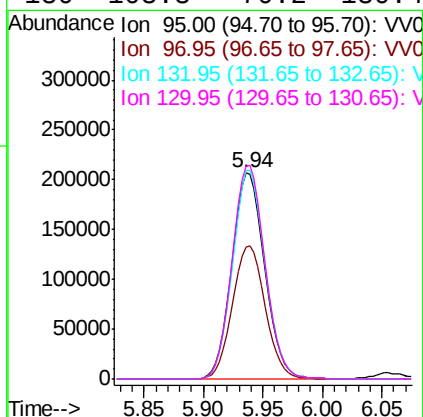
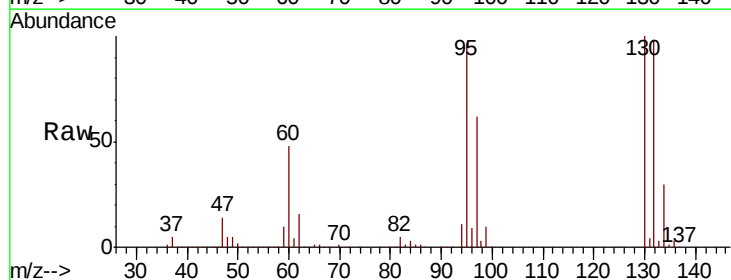
Instrument :
MSVOA_V
ClientSampled :

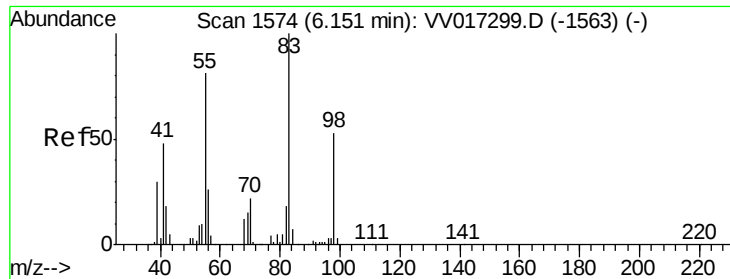


#34
Trichloroethene
Concen: 31.481 ug/L
RT: 5.94 min Scan# 1507
Delta R.T. 0.00 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

Tgt Ion: 95 Resp: 395009

Ion	Ratio	Lower	Upper
95	100		
97	64.1	45.3	84.1
132	101.0	68.8	127.8
130	103.3	70.2	130.4





#35

Methylcyclohexane

Concen: 0.123 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.01 min

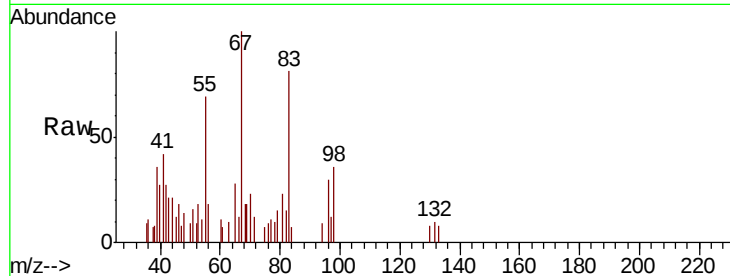
Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 2390

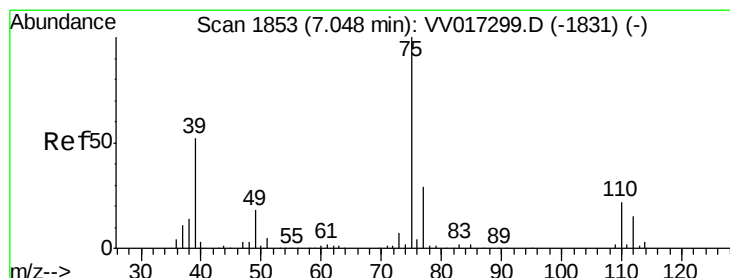
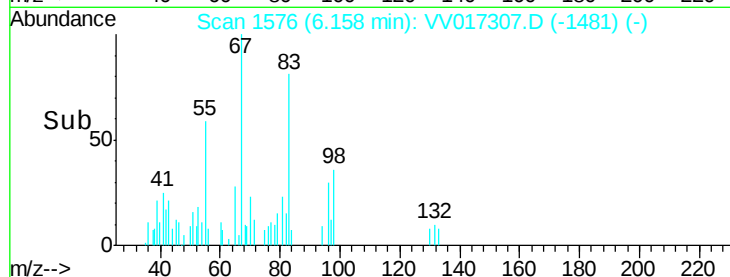
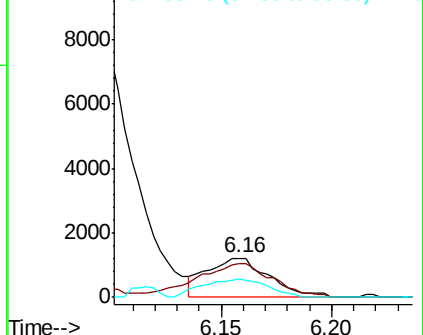
Ion	Ratio	Lower	Upper
83	100		
55	106.5	63.6	95.4#
98	49.3	38.8	58.2



Abundance Ion 83.15 (82.85 to 83.85): VV017299.D (-1563) (-)

Ion 55.10 (54.80 to 55.80): VV017299.D (-1563) (-)

Ion 98.15 (97.85 to 98.85): VV017299.D (-1563) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.131 ug/L

RT: 7.01 min Scan# 1840

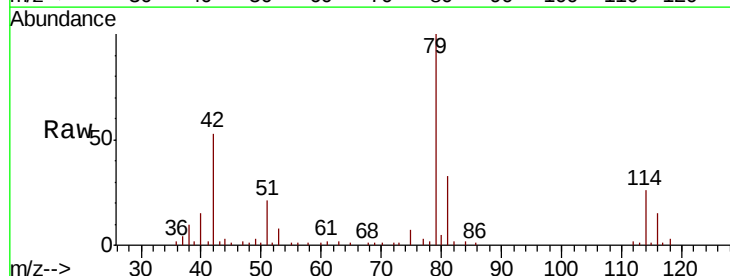
Delta R.T. -0.04 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

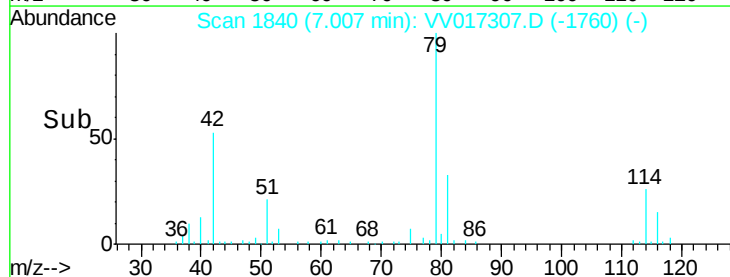
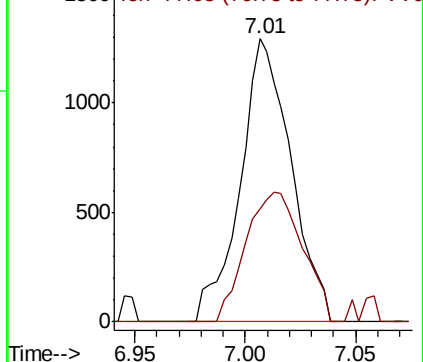
Tgt Ion: 75 Resp: 2066

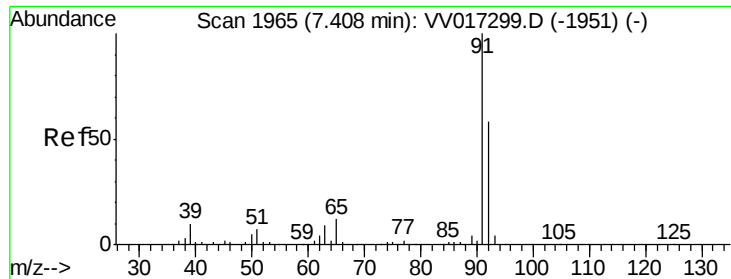
Ion	Ratio	Lower	Upper
75	100		
77	40.0	22.3	41.5



Abundance Ion 75.05 (74.75 to 75.75): VV017299.D (-1831) (-)

Ion 77.05 (76.75 to 77.75): VV017299.D (-1831) (-)





#42

Toluene

Concen: 2.326 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

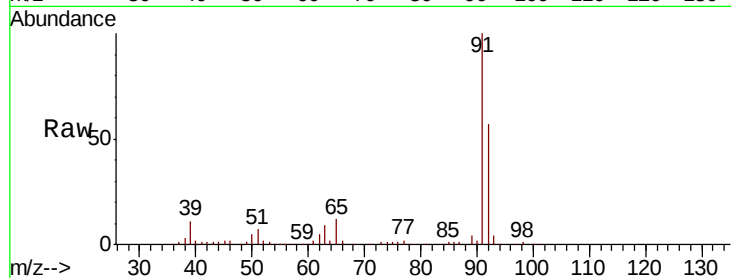
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 115885

Ion Ratio Lower Upper

91 100

92 57.1 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV017299.D (-1951) (-)

Ion 92.15 (91.85 to 92.85): VV017299.D (-1951) (-)

7.41

60000

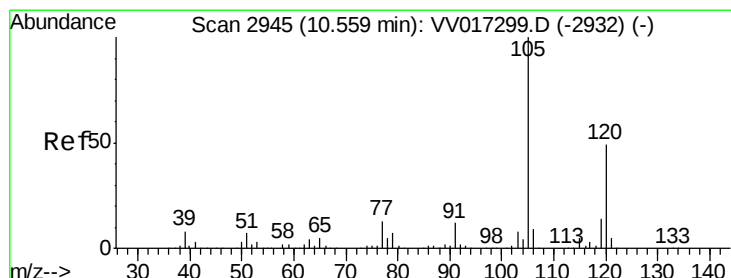
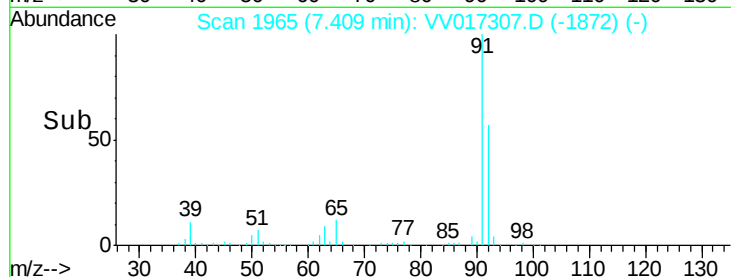
40000

20000

0

Time-->

7.30 7.40 7.50



#43

1,3,5-Trimethylbenzene

Concen: 0.088 ug/L

RT: 10.94 min Scan# 3064

Delta R.T. 0.38 min

Lab File: VV017307.D

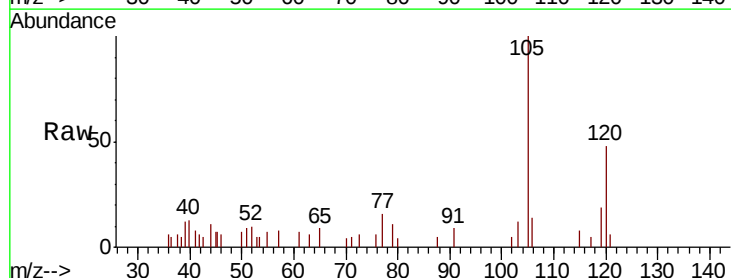
Acq: 02 Jul 2020 13:48

Tgt Ion: 105 Resp: 3932

Ion Ratio Lower Upper

105 100

120 50.8 38.6 57.8



Abundance Ion 105.00 (104.70 to 105.70): VV017299.D (-2932) (-)

Ion 120.00 (119.70 to 120.70): VV017299.D (-2932) (-)

10.94

3000

2500

2000

1500

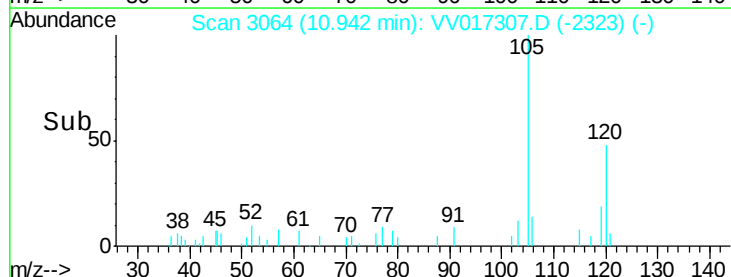
1000

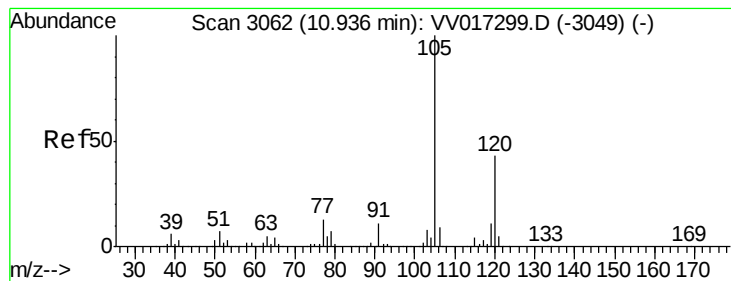
500

0

Time-->

10.90 10.95





#44

1,2,4-Trimethylbenzene

Concen: 0.087 ug/L

RT: 10.94 min Scan# 3064

Delta R.T. 0.01 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

Instrument :

MSVOA_V

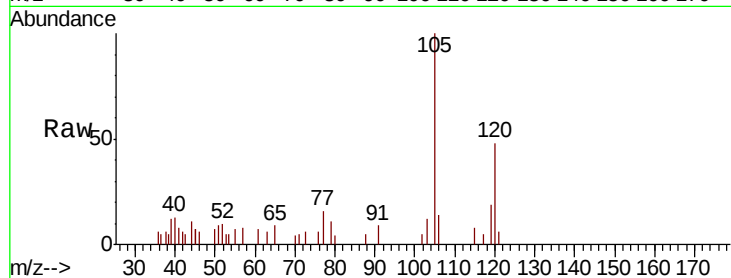
ClientSampled :

Tot Ion:105 Resp: 3932

Ion Ratio Lower Upper

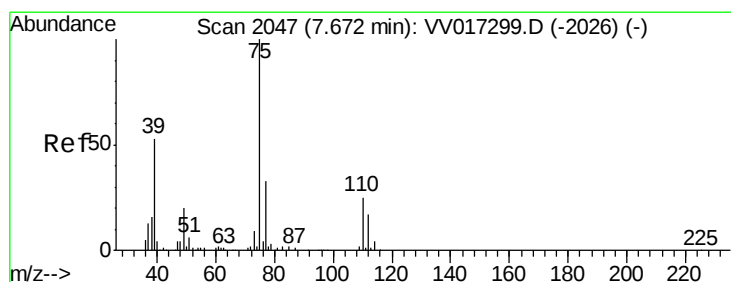
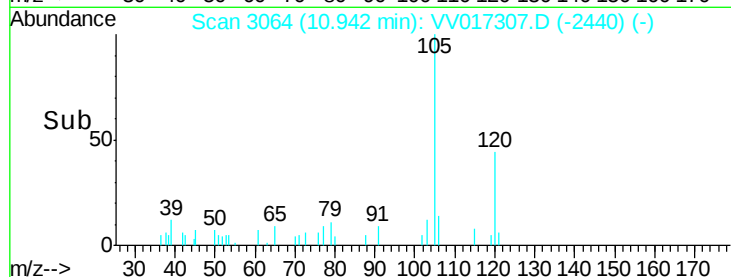
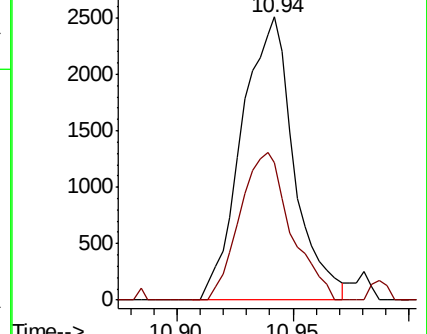
105 100

120 50.8 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#46

trans-1,3-Dichloropropene

Concen: 0.078 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV017307.D

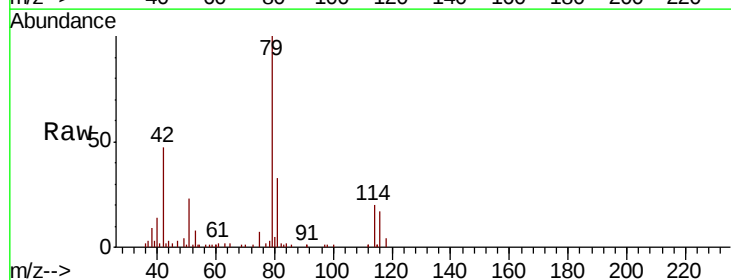
Acq: 02 Jul 2020 13:48

Tgt Ion: 75 Resp: 1060

Ion Ratio Lower Upper

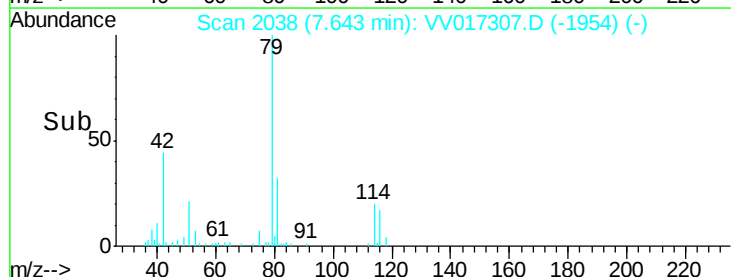
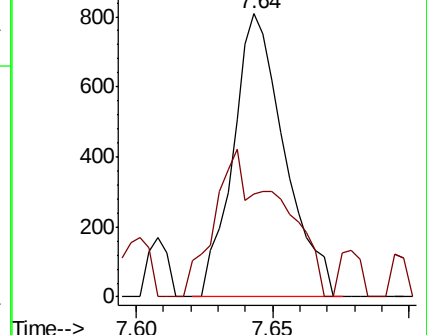
75 100

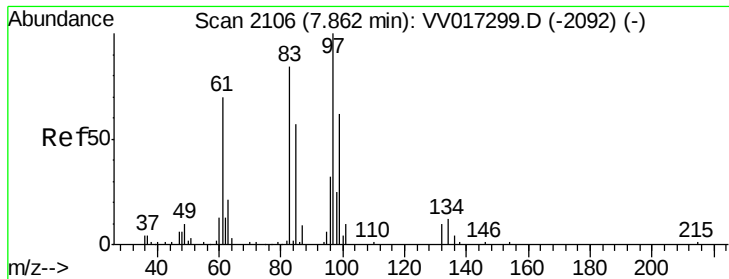
77 36.5 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

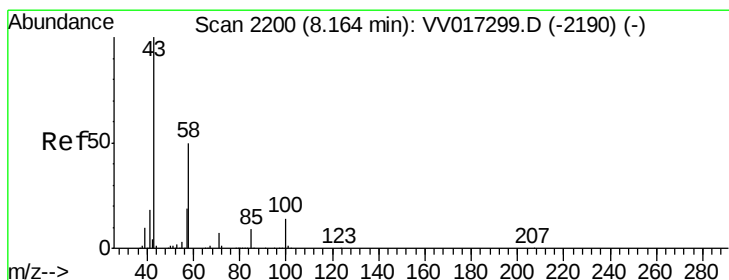
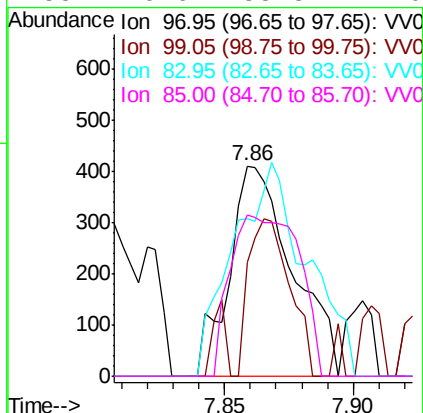
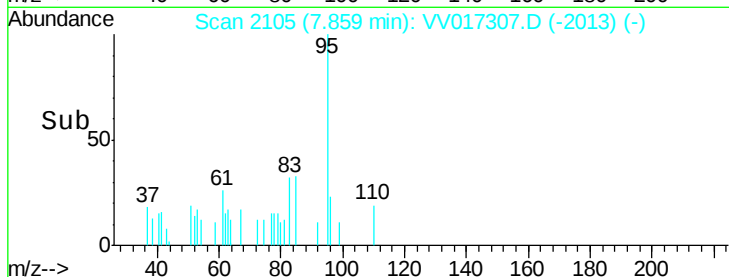
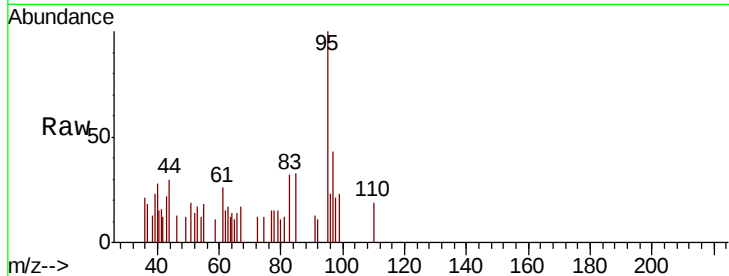




#47
 1,1,2-Trichloroethane
 Concen: 0.093 ug/L
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VV017307.D
 Acq: 02 Jul 2020 13:48

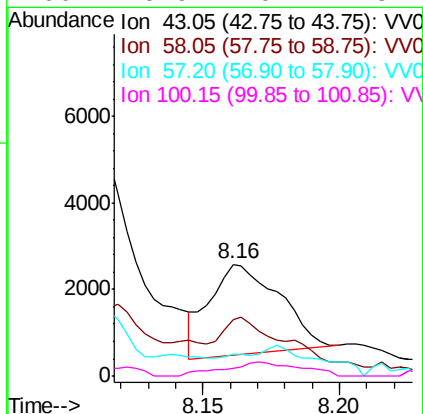
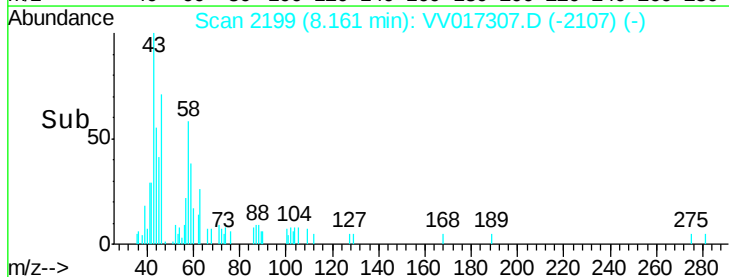
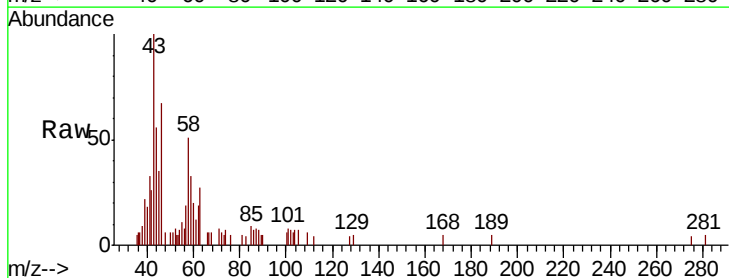
Instrument :
 MSVOA_V
 ClientSampled :

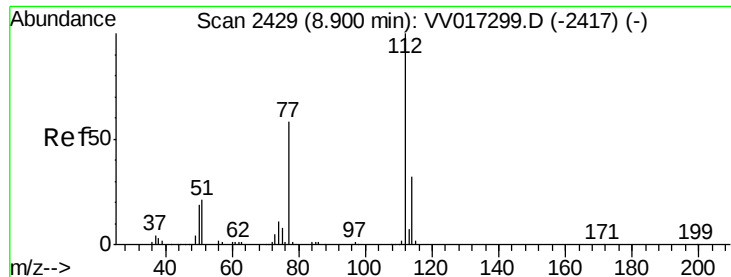
Tot Ion:	97	Resp:	702
Ion	Ratio	Lower	Upper
97	100		
99	53.9	43.6	81.0
83	75.1	57.4	106.6
85	76.6	38.8	72.0#



#50
 2-Hexanone
 Concen: 0.846 ug/L
 RT: 8.16 min Scan# 2199
 Delta R.T. -0.00 min
 Lab File: VV017307.D
 Acq: 02 Jul 2020 13:48

Tgt Ion:	43	Resp:	3686
Ion	Ratio	Lower	Upper
43	100		
58	71.0	41.6	62.4#
57	38.2	15.4	23.0#
100	16.9	10.1	15.1#

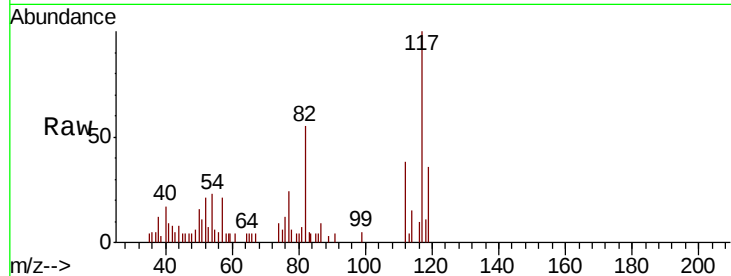




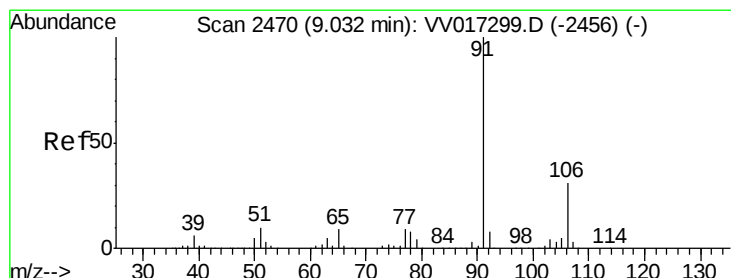
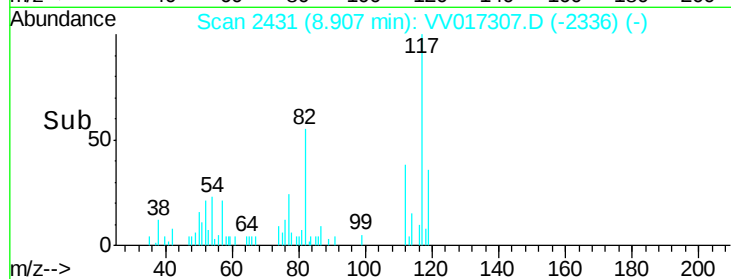
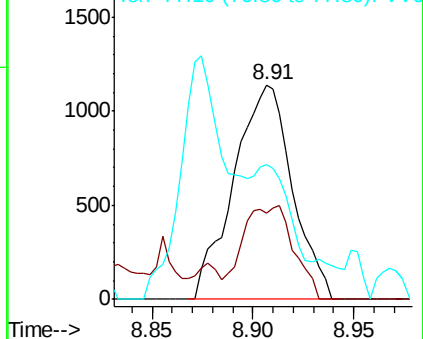
#53
Chlorobenzene
Concen: 0.074 ug/L
RT: 8.91 min Scan# 2431
Delta R.T. 0.01 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:112 Resp: 2307
Ion Ratio Lower Upper
112 100
114 40.1 22.0 41.0
77 62.8 46.0 69.0

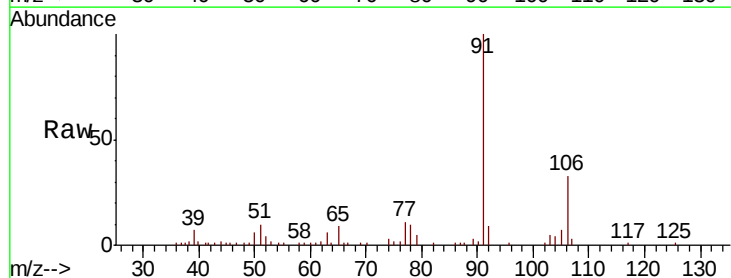


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

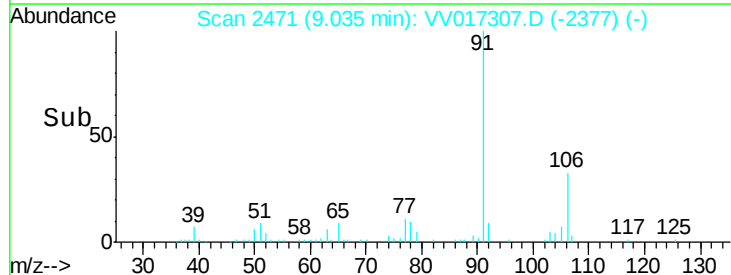
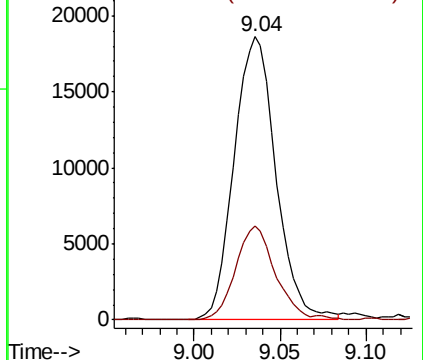


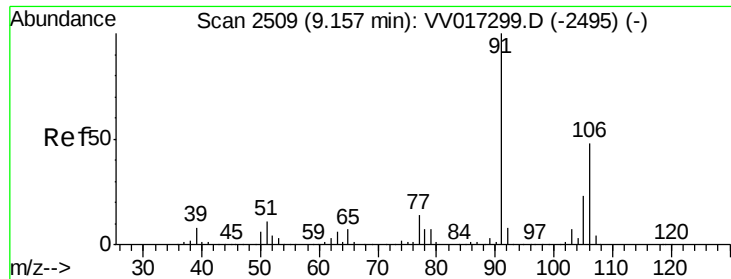
#54
Ethylbenzene
Concen: 0.592 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

Tgt Ion: 91 Resp: 31468
Ion Ratio Lower Upper
91 100
106 33.2 21.1 39.1



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V

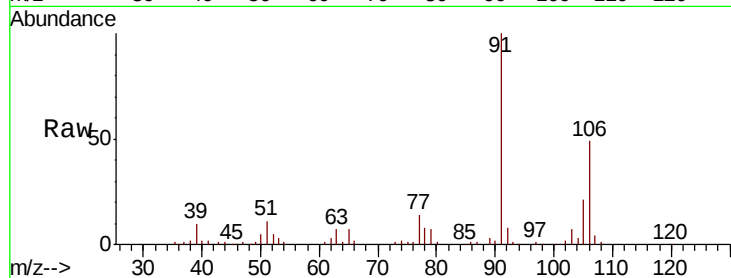




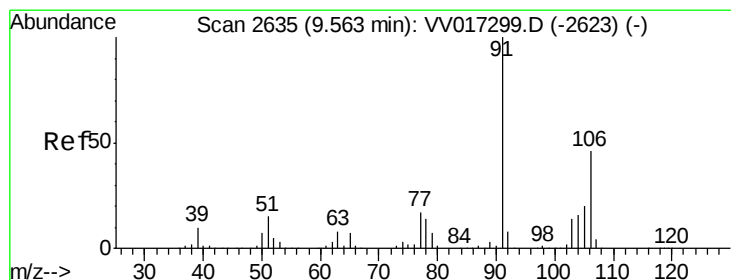
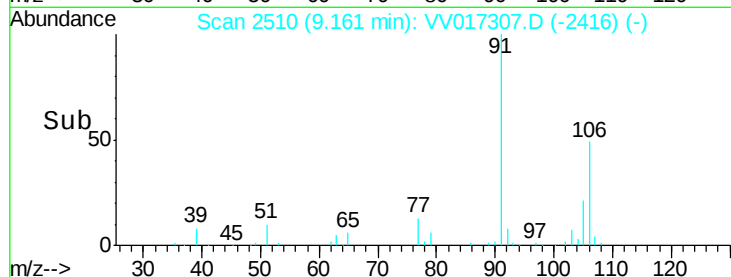
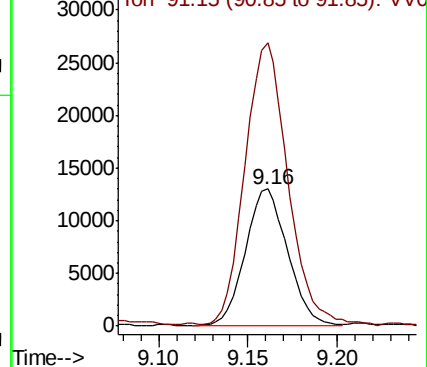
#55
m,p-xylene
Concen: 1.038 ug/L
RT: 9.16 min Scan# 2510
Delta R.T. 0.00 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 21642
Ion Ratio Lower Upper
106 100
91 206.0 142.7 264.9

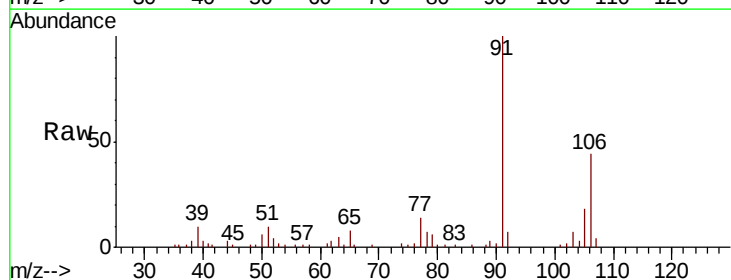


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

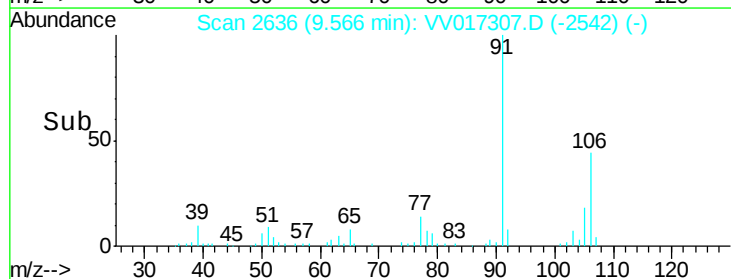
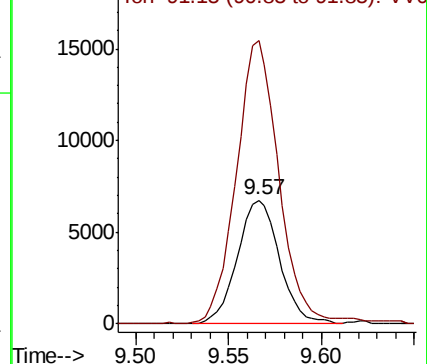


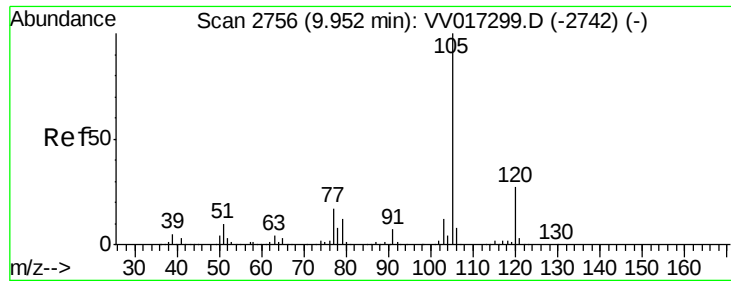
#56
o-xylene
Concen: 0.546 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV017307.D
Acq: 02 Jul 2020 13:48

Tgt Ion:106 Resp: 10624
Ion Ratio Lower Upper
106 100
91 228.4 153.6 285.2



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0





#58

Isopropylbenzene

Concen: 0.060 ug/L

RT: 9.96 min Scan# 2757

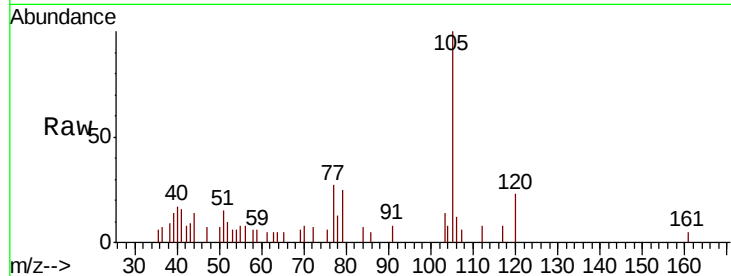
Delta R.T. 0.00 min

Lab File: VV017307.D

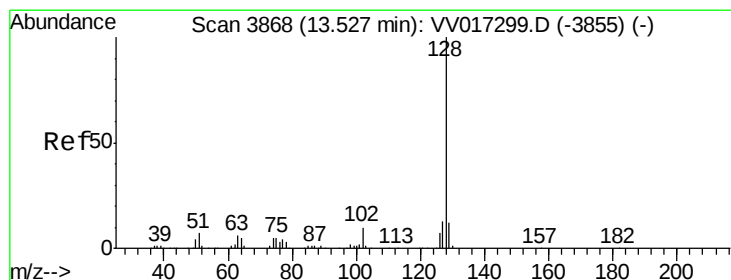
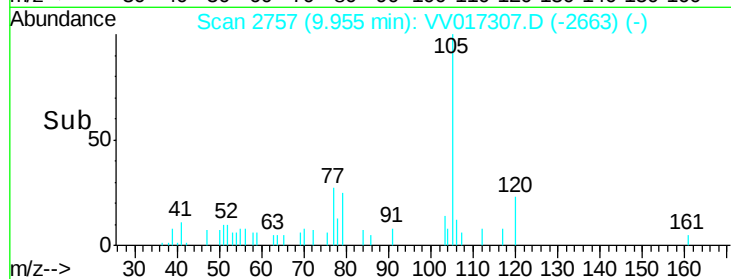
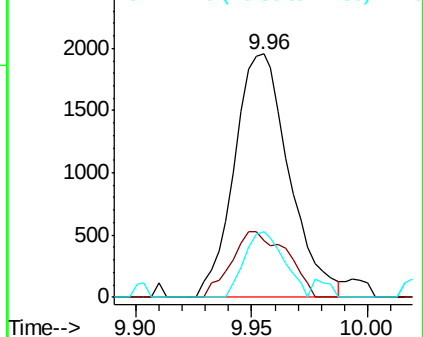
Acq: 02 Jul 2020 13:48

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:105	Resp:	3205
Ion Ratio	Lower	Upper
105	100	
120	27.4	21.2 31.8
77	19.5	13.0 19.4#



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): V



#70

Naphthalene

Concen: 0.184 ug/L

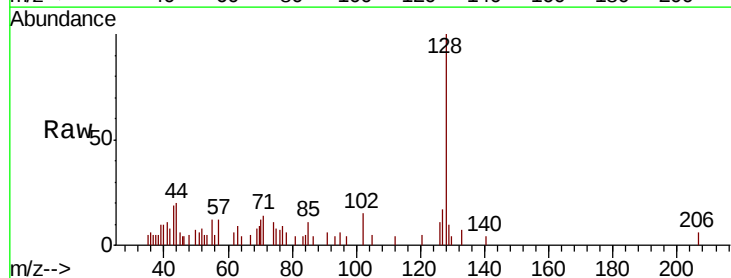
RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV017307.D

Acq: 02 Jul 2020 13:48

Tgt Ion:128	Resp:	4211
Ion Ratio	Lower	Upper
128	100	
129	3.9	8.8 13.2#
127	20.2	10.5 15.7#



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

