

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017022.D
 Acq On : 22 Jun 2020 17:22
 Operator : SY/MD
 Sample : L3067-01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXF8

Manual Integrations
 APPROVED

MMDadoda
 6/24/2020 8:57:37 AM

Quant Time: Jun 23 05:18:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 23 04:53:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	197342	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	189206	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	96056	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	63343	5.35	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	107.00%
7) Chloroethane-d5	1.58	69	47916	5.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	111.20%
11) 1,1-Dichloroethene-d2	2.13	63	303469	13.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	269.20%#
20) 2-Butanone-d5	3.95	46	166543	55.17	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.34%
24) Chloroform-d	4.38	84	137507	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.60%
26) 1,2-Dichloroethane-d4	5.06	65	73502	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%
32) Benzene-d6	5.07	84	263707	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.40%
36) 1,2-Dichloropropane-d6	6.10	67	76322	5.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.80%
41) Toluene-d8	7.34	98	244050	5.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.00%
45) trans-1,3-Dichloropropene-	7.65	79	26461	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
48) 2-Hexanone-d5	8.11	63	117227	50.27	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.54%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	55521m	5.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	94215	5.31	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	70078	5.412	ug/L	96
8) Chloroethane	1.60	64	71777	10.030	ug/L	99
12) 1,1-Dichloroethene	2.13	96	381177	40.246	ug/L #	69
16) Methylene chloride	2.53	84	1410	0.139	ug/L	81
18) trans-1,2-Dichloroethene	2.78	96	8668	0.864	ug/L	99
19) 1,1-Dichloroethane	3.21	63	8963074	397.468	ug/L	97
22) cis-1,2-Dichloroethene	3.94	96	124575	9.077	ug/L	96
25) Chloroform	4.41	83	4092m	0.166	ug/L	
27) 1,2-Dichloroethane	5.16	62	10290	0.672	ug/L #	95
29) 1,1,1-Trichloroethane	4.64	97	25998139m	1146.900	ug/L	
33) Benzene	5.13	78	119248	2.407	ug/L	100
34) Trichloroethene	5.94	95	9546	0.658	ug/L	95
35) Methylcyclohexane	6.14	83	3228	0.143	ug/L #	30
42) Toluene	7.41	91	34289	0.595	ug/L	98
47) 1,1,2-Trichloroethane	7.87	97	6103	0.702	ug/L	94
49) Tetrachloroethene	8.00	164	4922	0.421	ug/L	90
53) Chlorobenzene	8.90	112	179418	4.996	ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jun 23 04:53:49 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	9.04	91	8304	0.135	ug/L	100
55) m,p-xylene	9.16	106	5941	0.246	ug/L	95
56) o-xylene	9.57	106	7769	0.345	ug/L	97
58) Isopropylbenzene	9.95	105	20477	0.331	ug/L #	95
63) 1,3-Dichlorobenzene	11.21	146	3699	0.128	ug/L	94
64) 1,4-Dichlorobenzene	11.30	146	12588	0.428	ug/L	88
66) 1,2-Dichlorobenzene	11.67	146	56037	2.135	ug/L	95

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

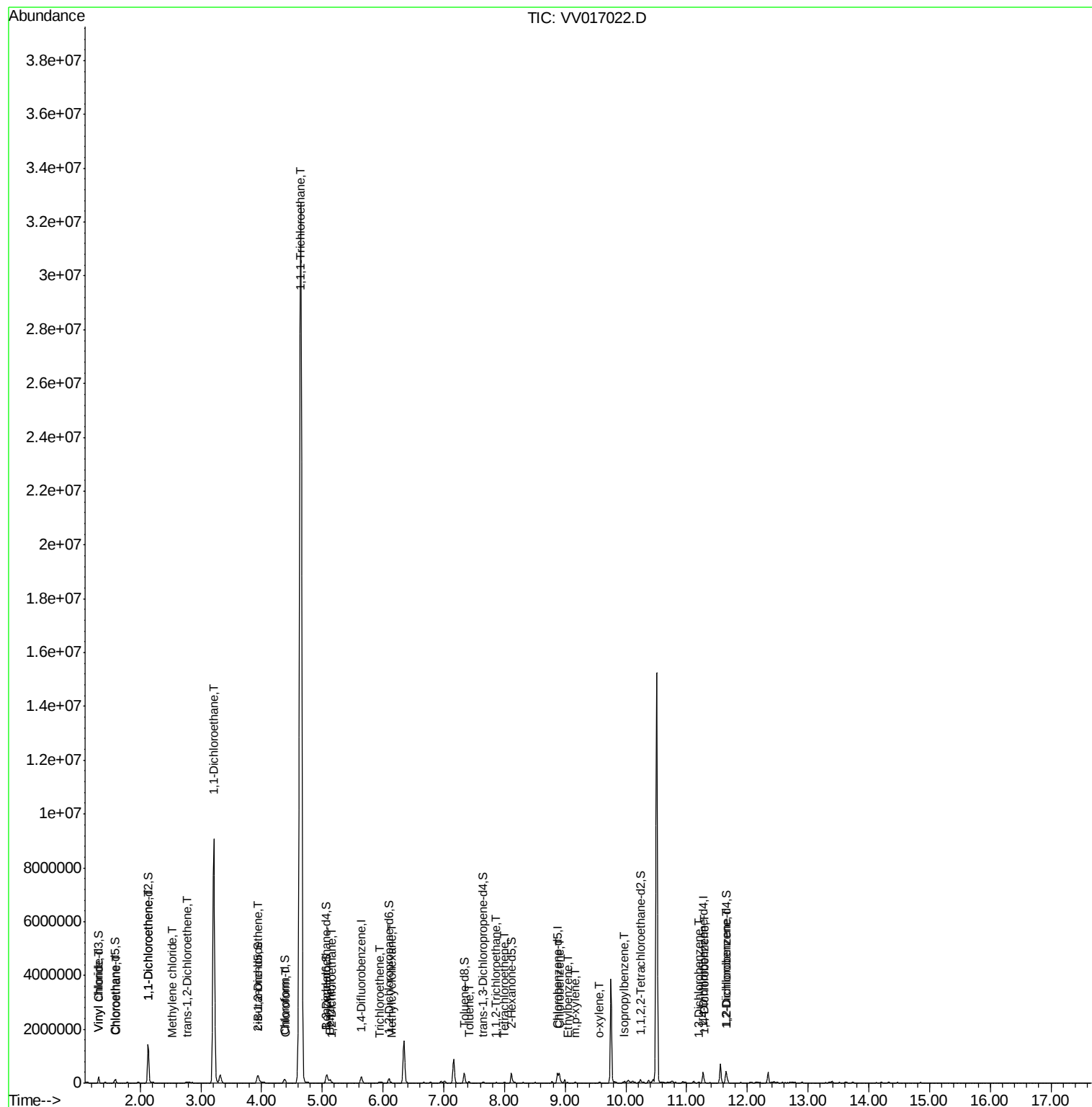
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
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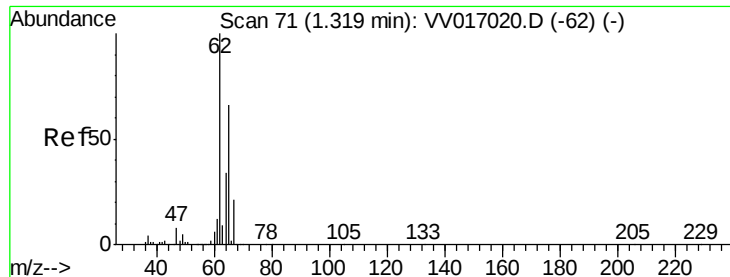
Instrument :
MSVOA_V
ClientSampleId :
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QLast Update : Tue Jun 23 04:53:49 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 5.412 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017022.D

Acq: 22 Jun 2020 17:22

Instrument :

MSVOA_V

ClientSampleId :

BFXF8

Tot Ion: 62 Resp: 70078

Ion Ratio Lower Upper

62 100

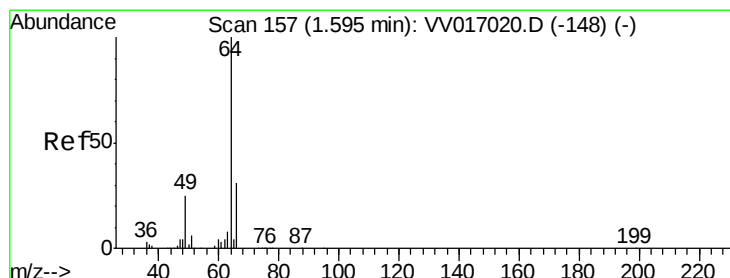
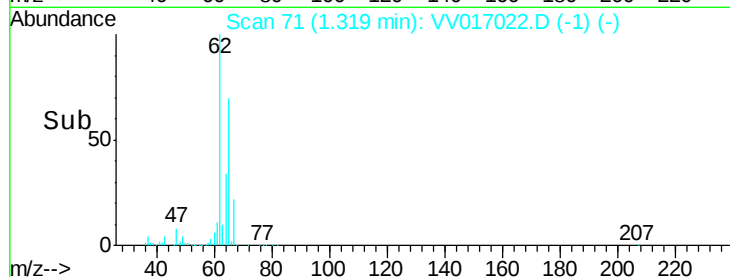
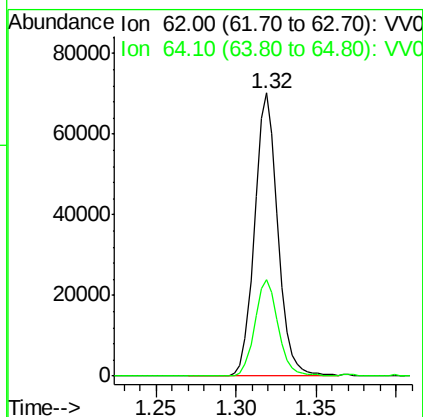
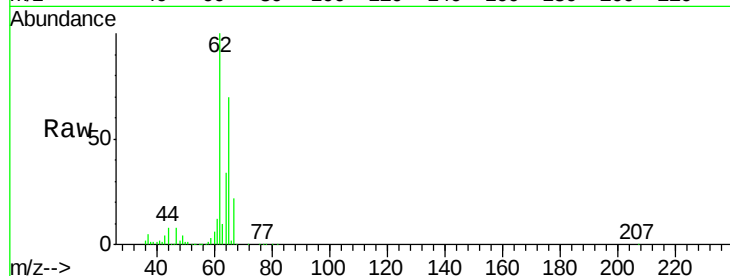
64 34.3 22.5 41.7

Manual Integrations

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#8

Chloroethane

Concen: 10.030 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV017022.D

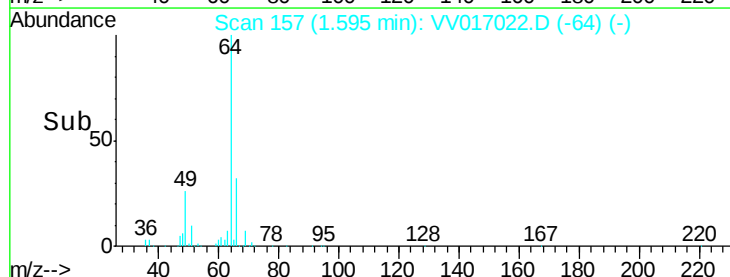
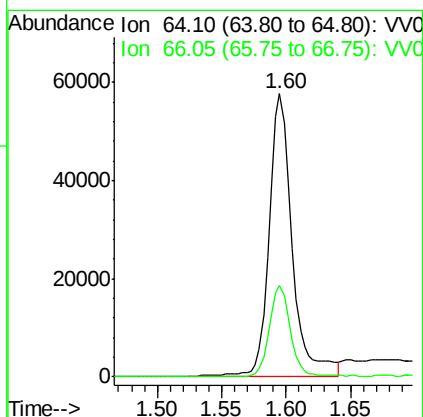
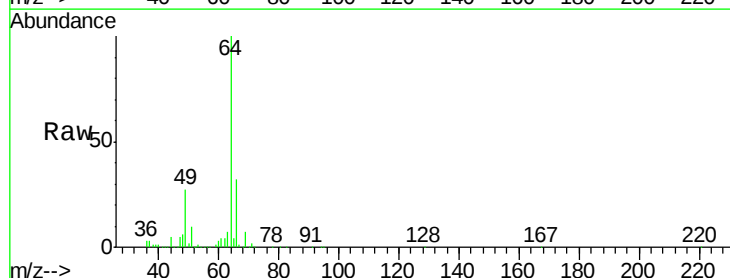
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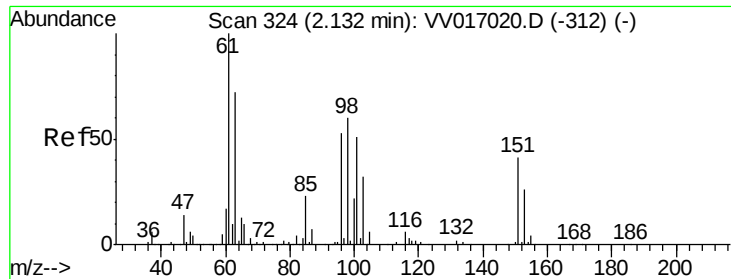
Tgt Ion: 64 Resp: 71777

Ion Ratio Lower Upper

64 100

66 32.2 22.8 42.4





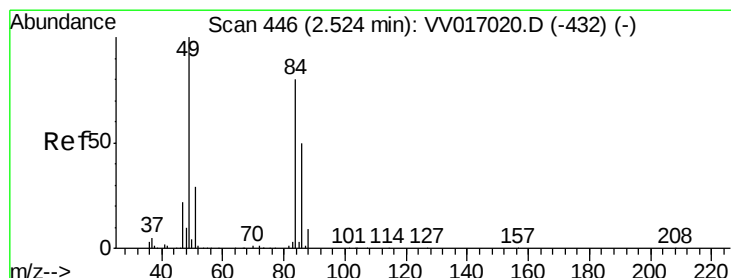
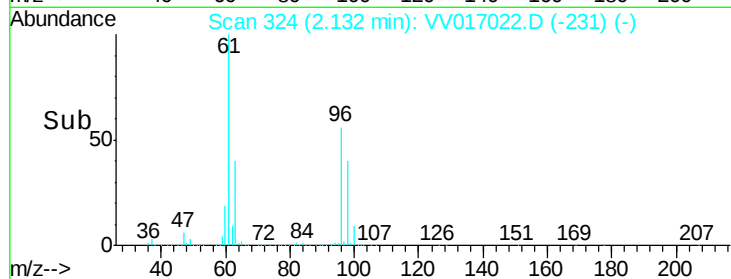
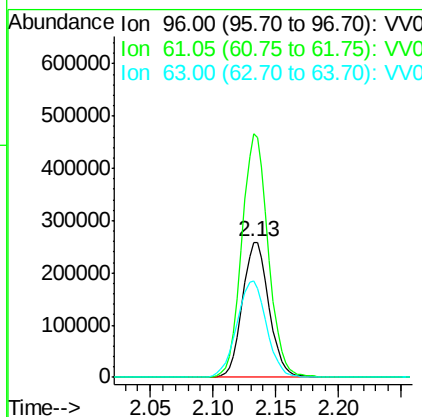
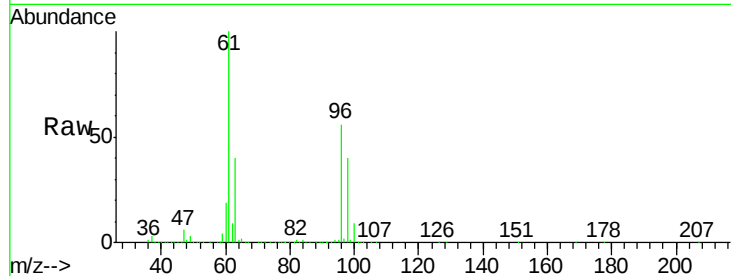
#12
1,1-Dichloroethene
Concen: 40.246 ug/L
RT: 2.13 min Scan# 324
Delta R.T. 0.00 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Instrument :
MSVOA_V
ClientSampled :
BFXF8

Tot Ion	Ratio	Lower	Upper
96	100		
61	180.0	125.0	232.2
63	71.4	109.8	203.8#

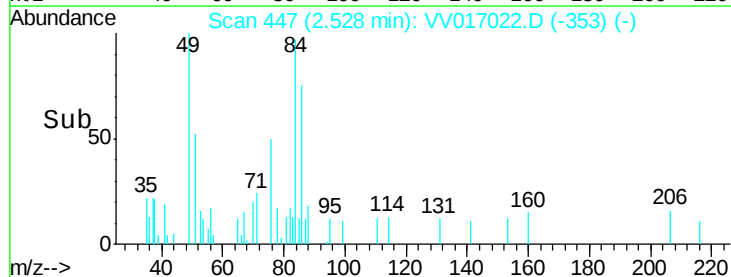
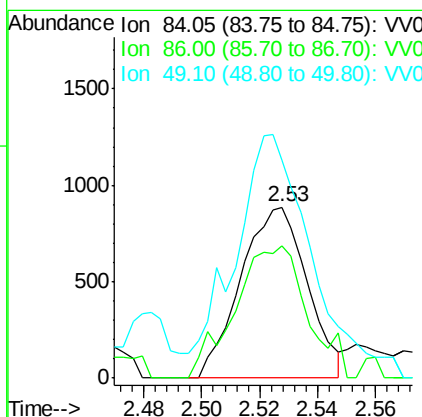
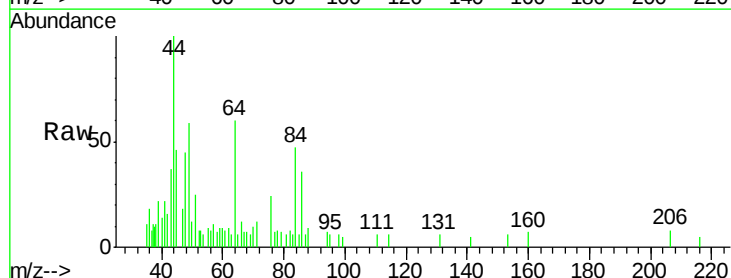
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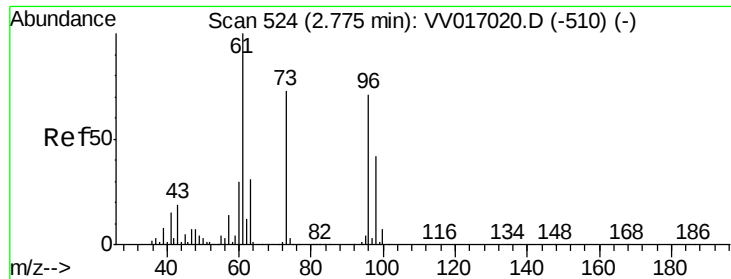
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#16
Methylene chloride
Concen: 0.139 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Tgt Ion	Ratio	Lower	Upper
84	100		
86	77.5	45.8	85.0
49	152.1	89.6	166.4





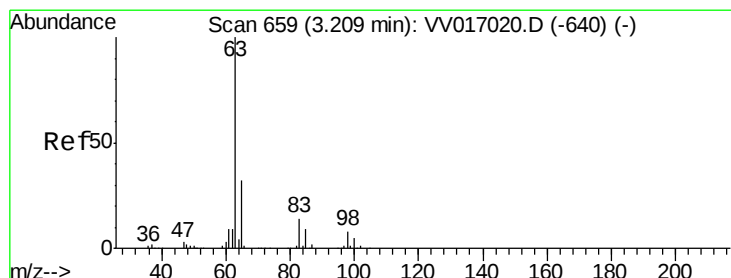
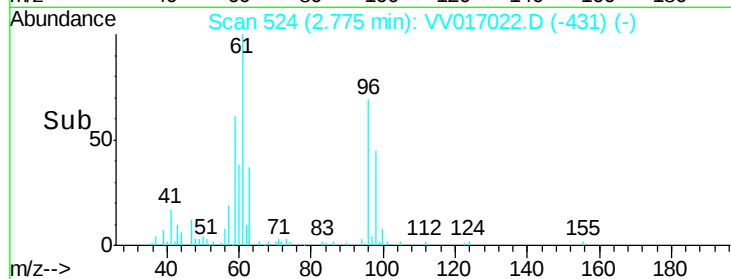
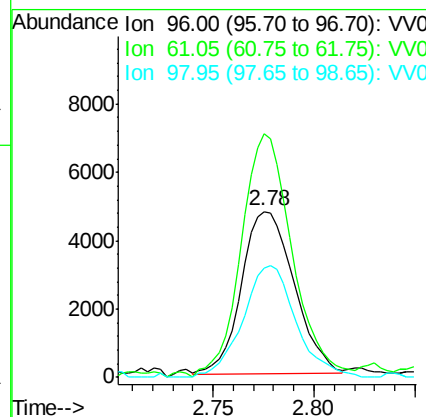
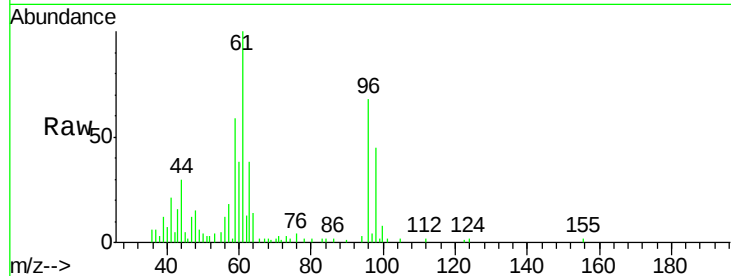
#18
trans-1,2-Dichloroethene
Concen: 0.864 ug/L
RT: 2.78 min Scan# 524
Delta R.T. 0.00 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Instrument :
MSVOA_V
ClientSampleId :
BFXF8

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.6	102.3	189.9
98	66.0	44.7	82.9

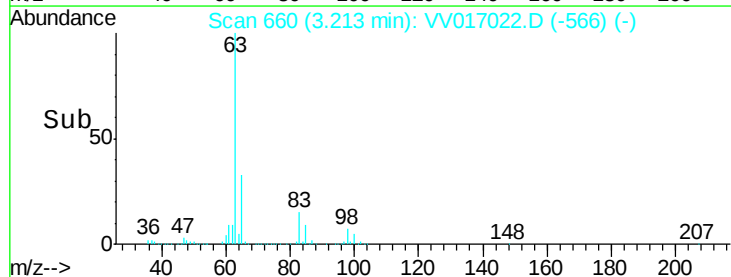
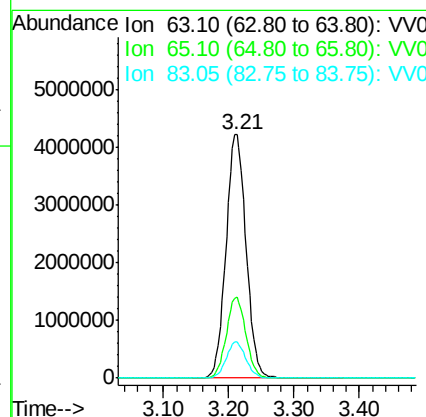
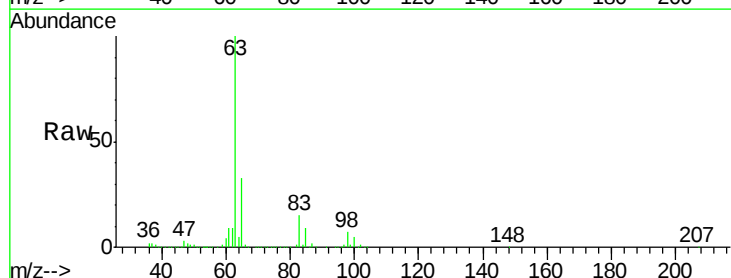
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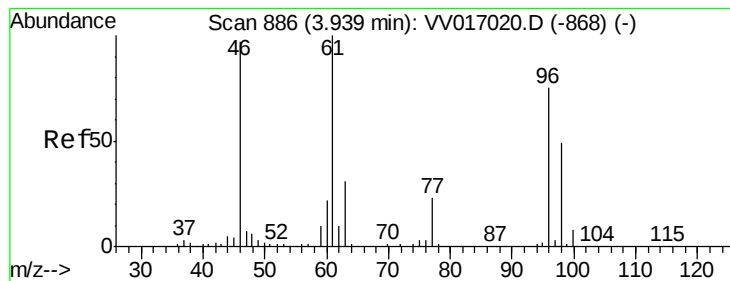
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#19
1,1-Dichloroethane
Concen: 397.468 ug/L
RT: 3.21 min Scan# 660
Delta R.T. 0.00 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Tgt Ion	Ratio	Lower	Upper
63	100		
65	33.1	21.8	40.4
83	14.7	9.7	17.9





#22

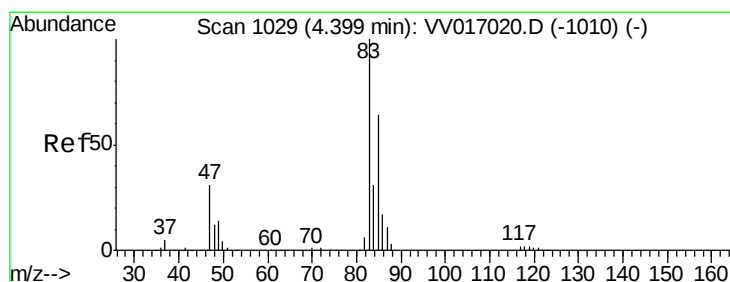
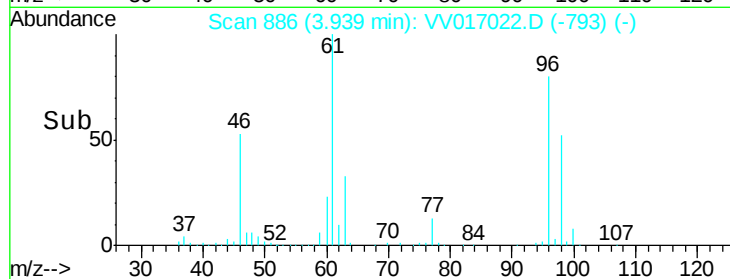
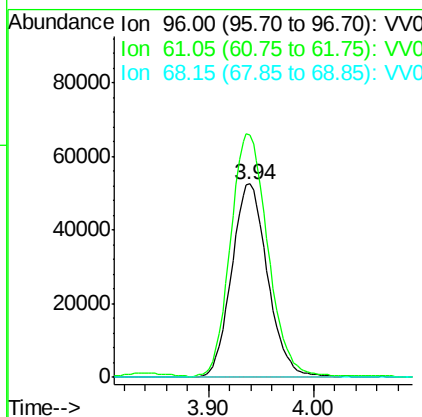
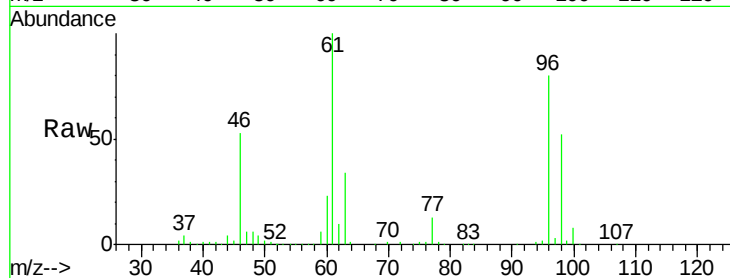
cis-1,2-Dichloroethene
Concen: 9.077 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.00 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Instrument :
MSVOA_V
ClientSampleId :
BFXF8

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		124575		
61	124.9	91.0	169.0		
68	0.0	0.0	0.0		

Manual Integrations
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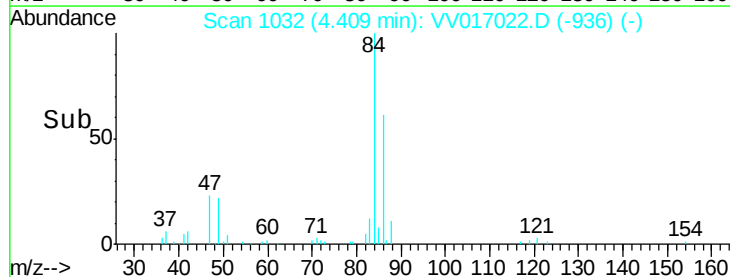
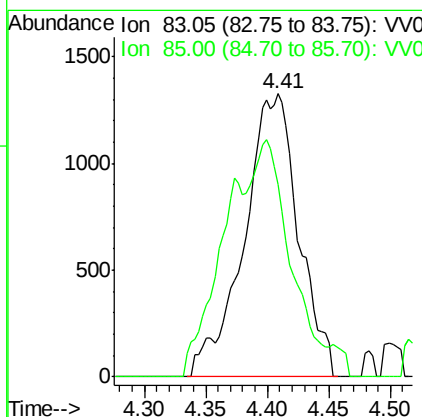
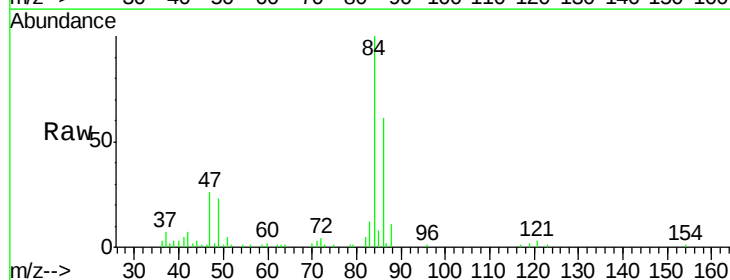
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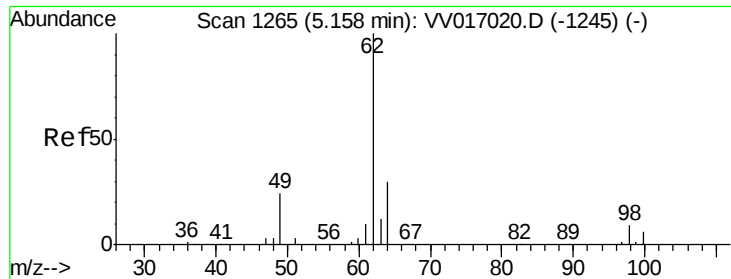


#25

Chloroform
Concen: 0.166 ug/L m
RT: 4.41 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		4092		
85	68.1	44.2	82.2		





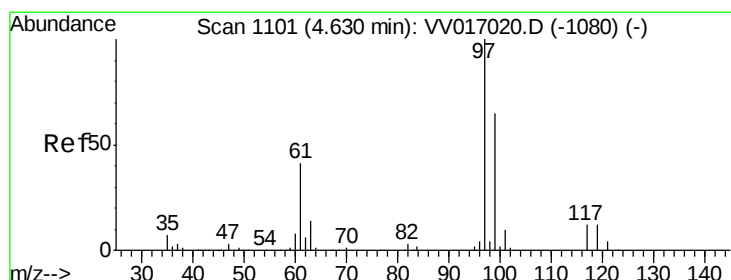
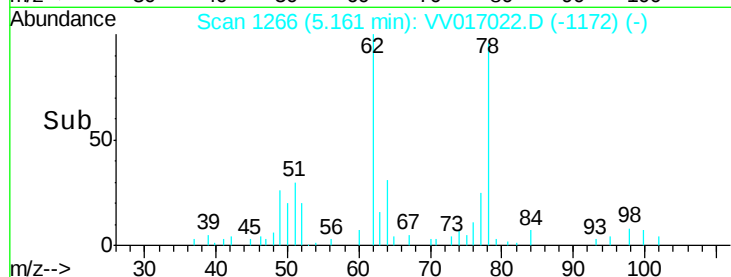
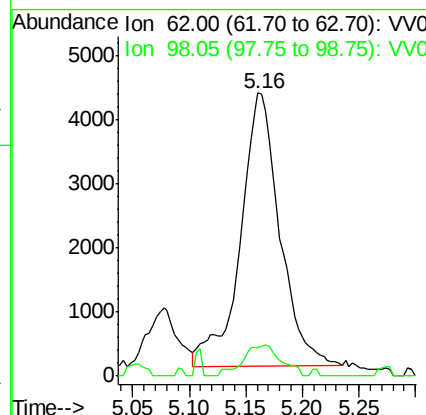
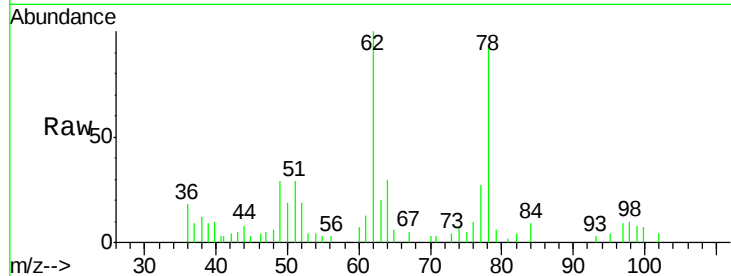
#27
 1,2-Dichloroethane
 Concen: 0.672 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.00 min
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Tot Ion	Ratio	Lower	Upper
62	100		
98	10.2	6.7	10.1#

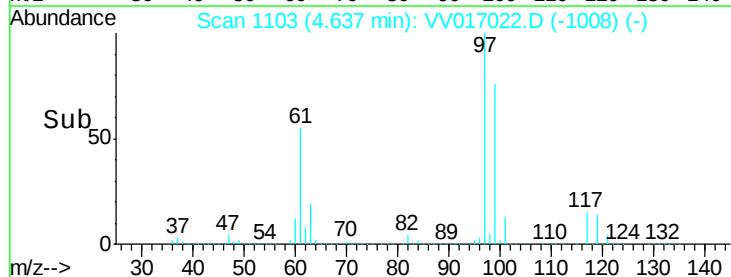
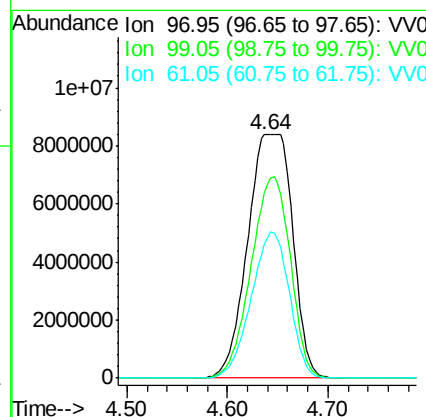
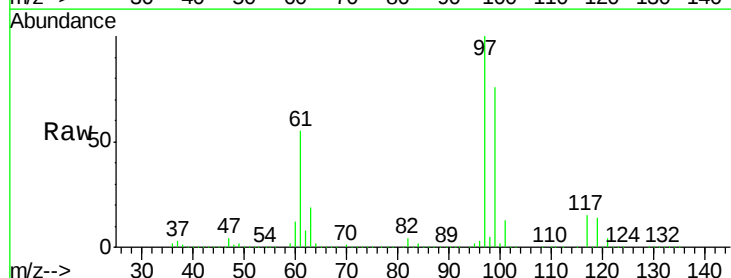
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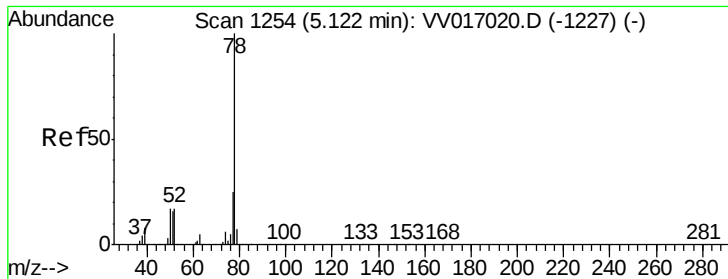
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#29
 1,1,1-Trichloroethane
 Concen: 1146.900 ug/L m
 RT: 4.64 min Scan# 1103
 Delta R.T. 0.01 min
 Lab File: VV017022.D
 Acq: 22 Jun 2020 17:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.3	75.5#
61	0.0	36.0	54.0#





#33

Benzene

Concen: 2.407 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV017022.D

Acq: 22 Jun 2020 17:22

Instrument :

MSVOA_V

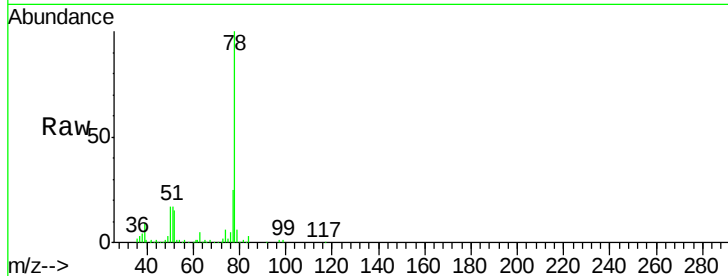
ClientSampleId :

BFXF8

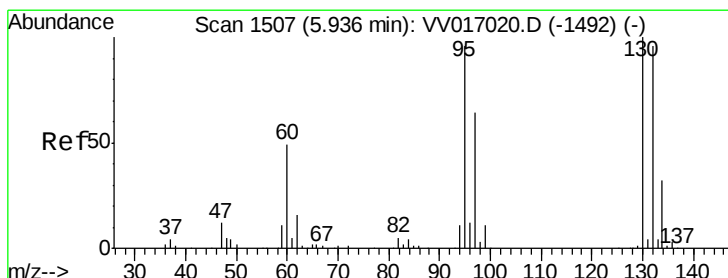
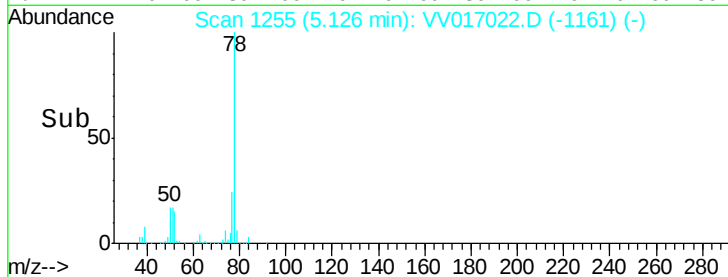
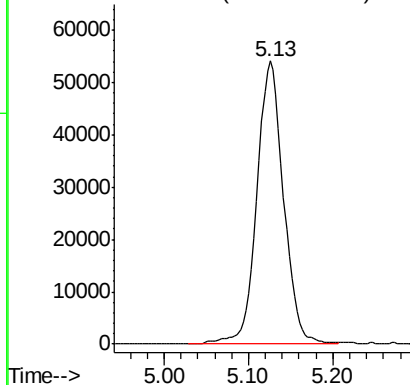
Tgt Ion: 78 Resp: 119248

Manual Integrations
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Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.658 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV017022.D

Acq: 22 Jun 2020 17:22

Tgt Ion: 95 Resp: 9546

Ion Ratio Lower Upper

95 100

97 67.5 45.3 84.1

132 105.9 68.8 127.8

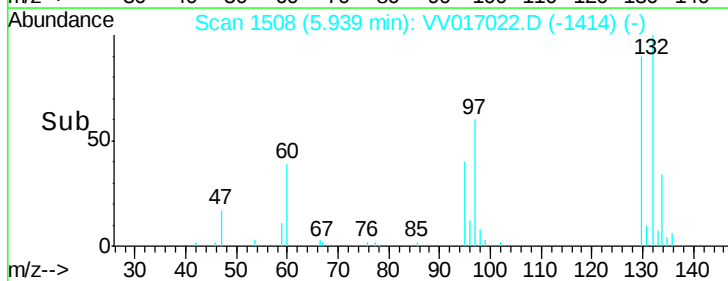
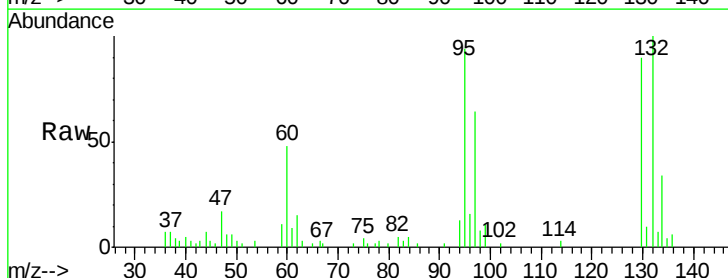
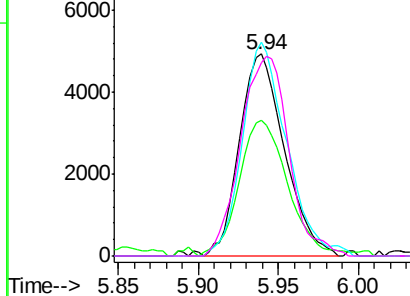
130 95.8 70.2 130.4

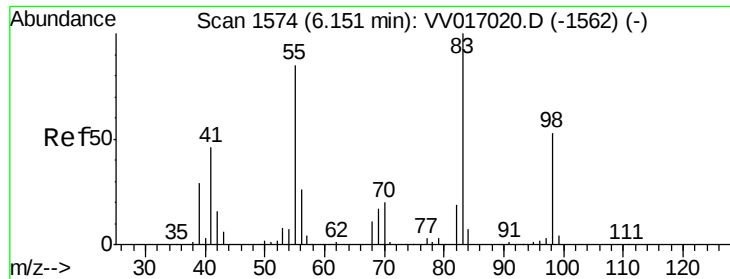
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0





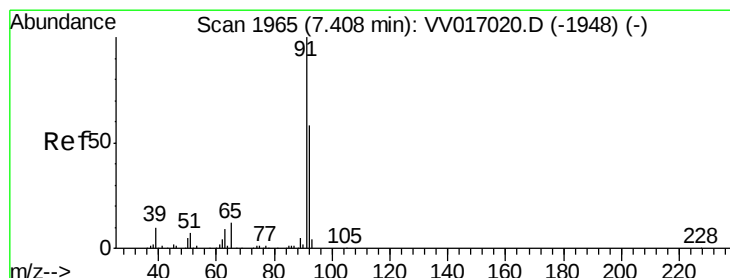
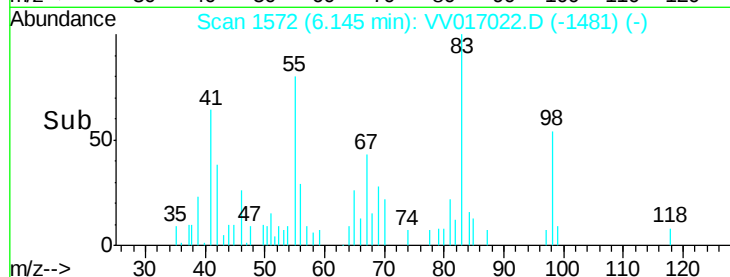
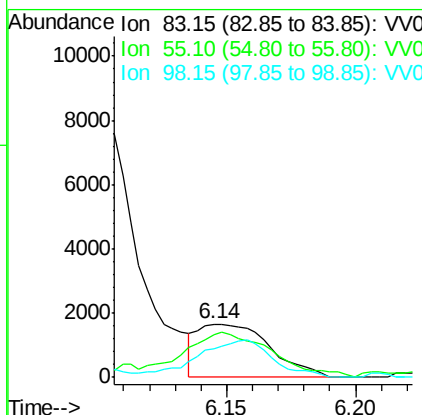
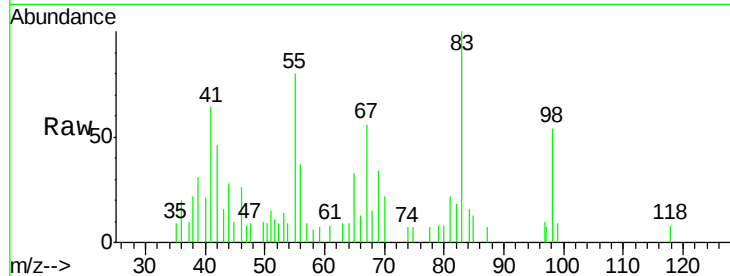
#35
Methvlcvclohexane
Concen: 0.143 ug/L
RT: 6.14 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Instrument :
MSVOA_V
ClientSampled :
BFXF8

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	63.6	95.4#
98	73.1	38.8	58.2#

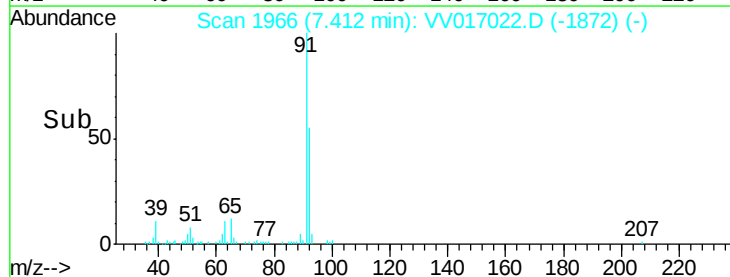
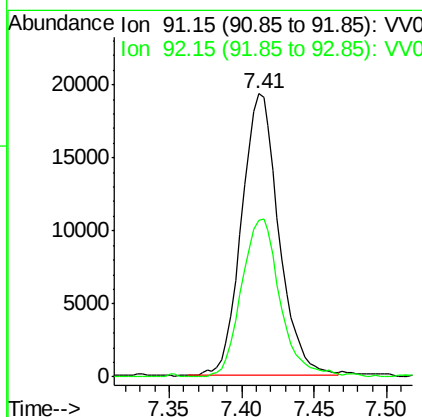
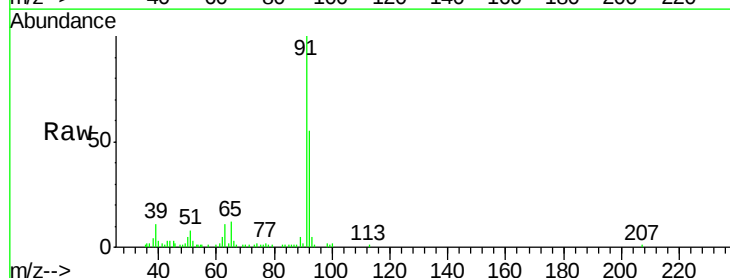
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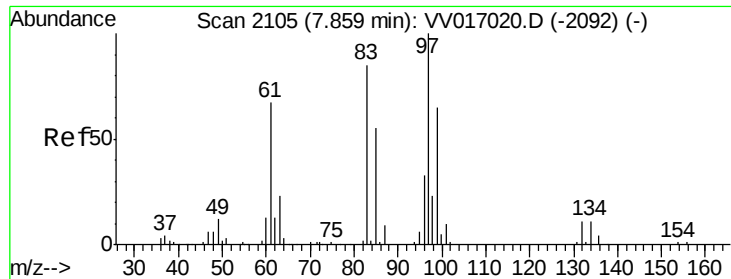
MMDadoda
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#42
Toluene
Concen: 0.595 ug/L
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.4	39.9	74.1





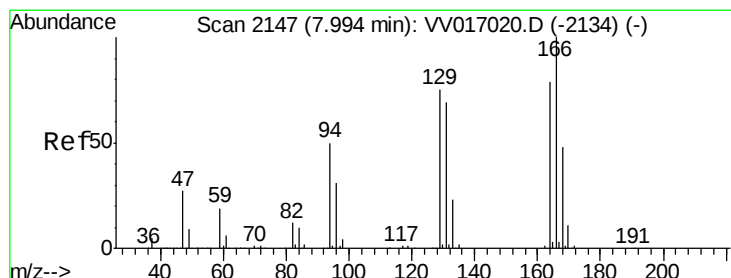
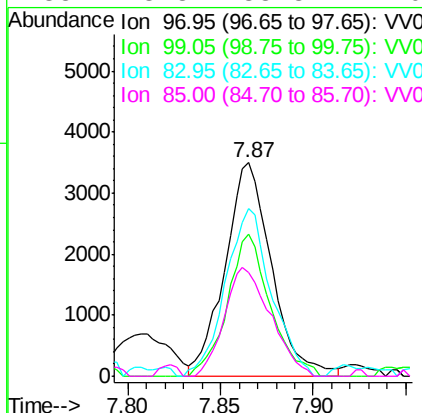
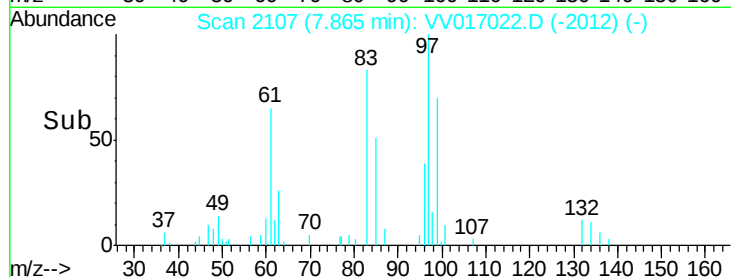
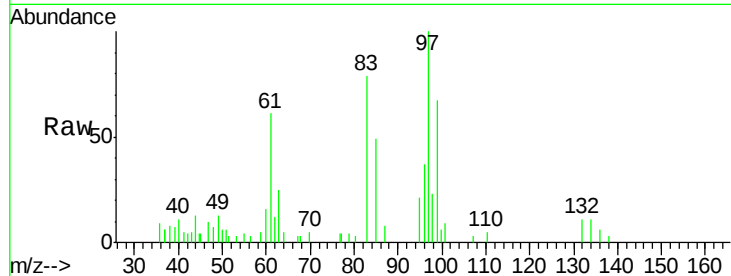
#47
 1,1,2-Trichloroethane
 Concen: 0.702 ug/L
 RT: 7.87 min Scan# 2107
 Delta R.T. 0.01 min
 Lab File: VV017022.D
 Acq: 22 Jun 2020 17:22

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXF8

Tot Ion:	97	Resp:	6103
Ion	Ratio	Lower	Upper
97	100		
99	66.7	43.6	81.0
83	78.7	57.4	106.6
85	48.8	38.8	72.0

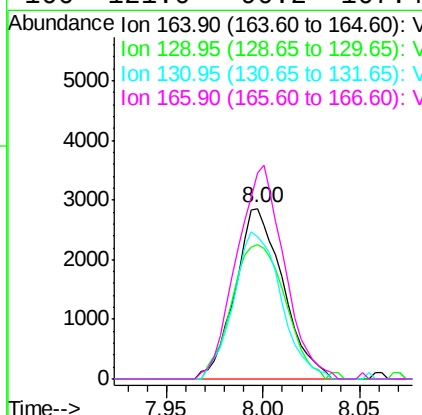
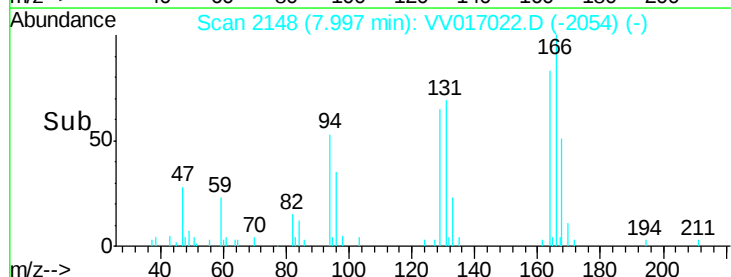
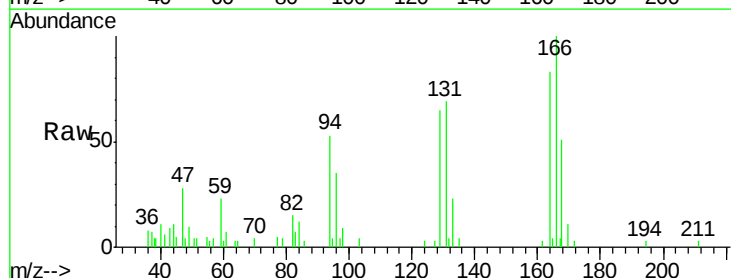
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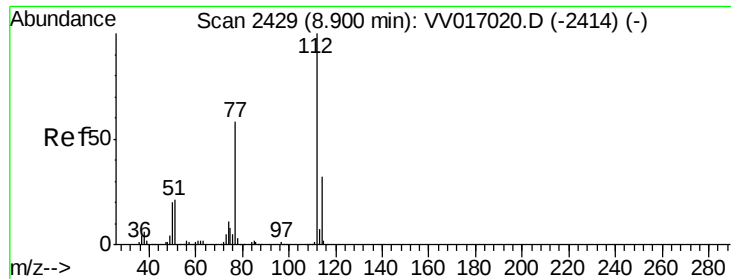
MMDadoda
 6/24/2020 8:57:37 AM



#49
 Tetrachloroethene
 Concen: 0.421 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV017022.D
 Acq: 22 Jun 2020 17:22

Tgt Ion:	164	Resp:	4922
Ion	Ratio	Lower	Upper
164	100		
129	78.6	65.2	121.0
131	83.6	64.1	119.1
166	121.0	90.2	167.4





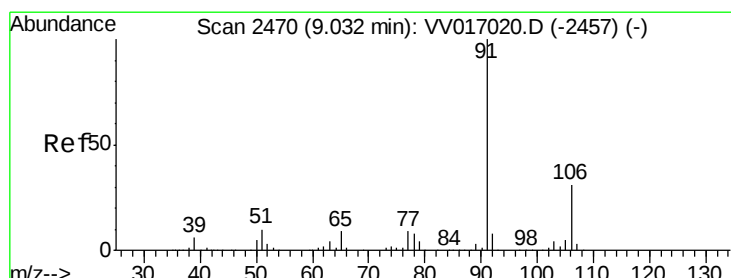
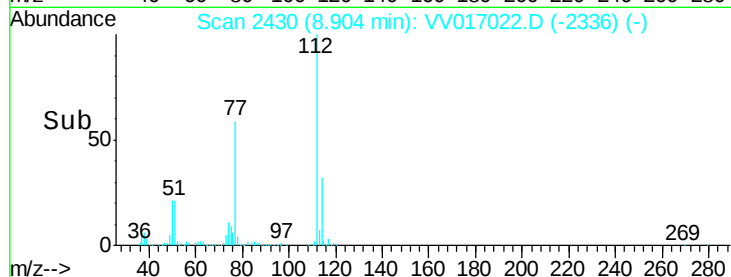
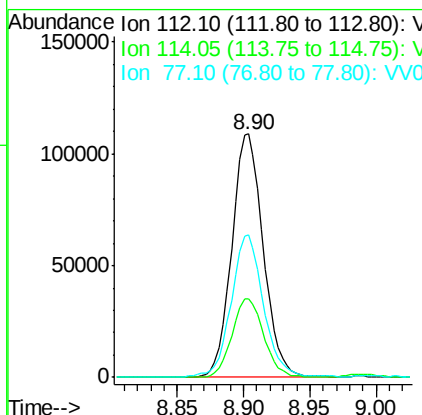
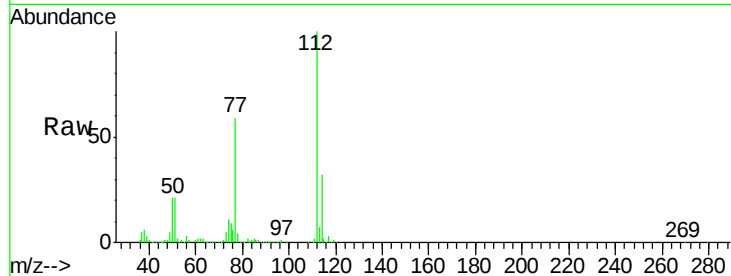
#53
Chlorobenzene
Concen: 4.996 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Instrument :
MSVOA_V
ClientSampled :
BFXF8

Tot Ion	Ratio	Resp	Lower	Upper
112	100	179418		
114	32.4		22.0	41.0
77	58.7		46.0	69.0

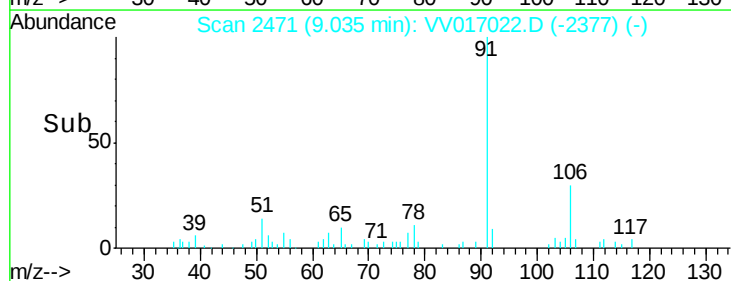
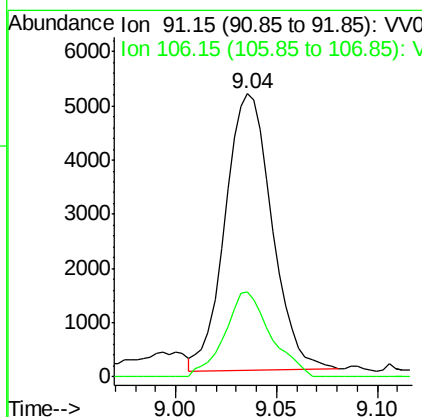
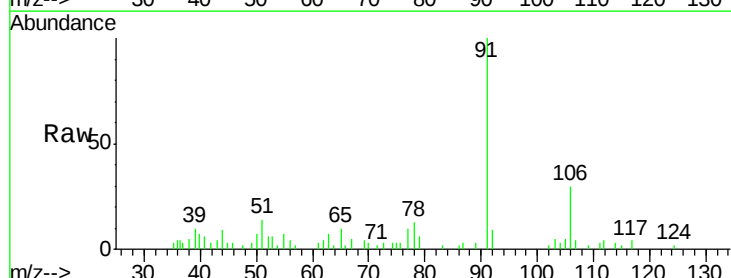
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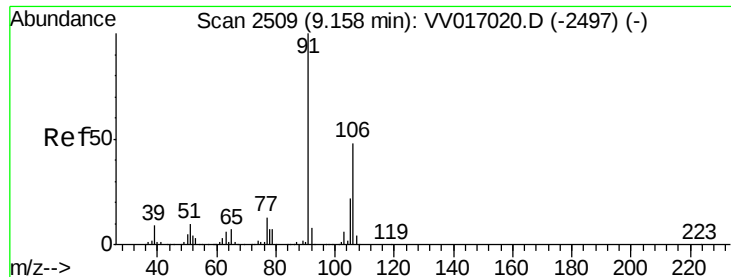
MMDadoda
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#54
Ethylbenzene
Concen: 0.135 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV017022.D
Acq: 22 Jun 2020 17:22

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	8304		
106	30.0		21.1	39.1





#55

m,p-xylene

Concen: 0.246 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017022.D

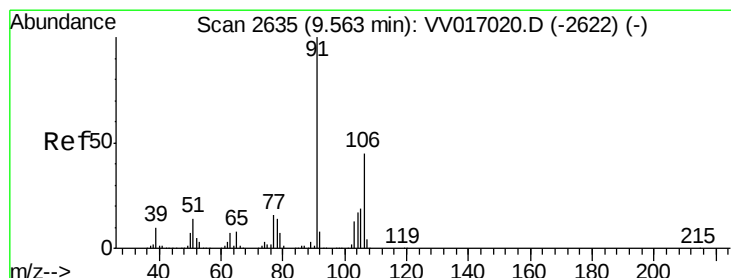
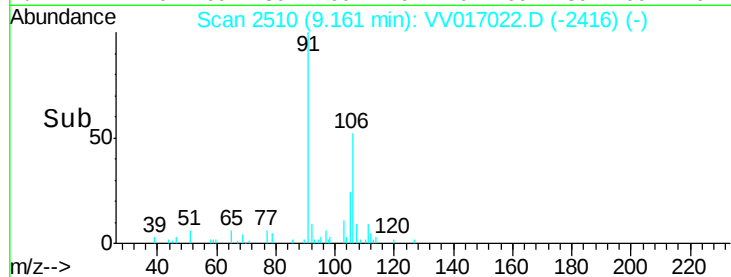
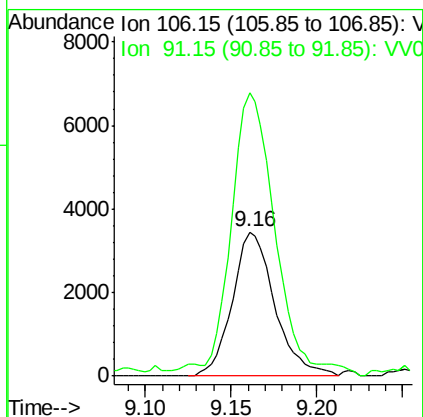
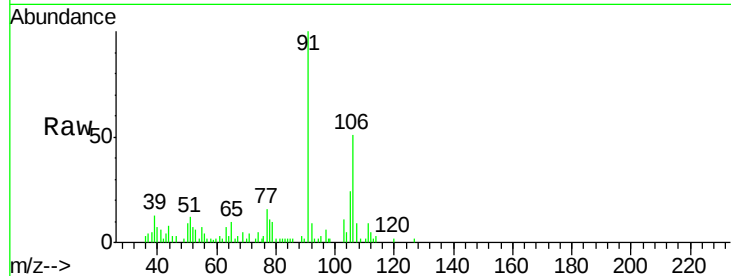
Acq: 22 Jun 2020 17:22

Instrument :
MSVOA_V
ClientSampled :
BFXF8

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	196.6	142.7	264.9	

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#56

o-xylene

Concen: 0.345 ug/L

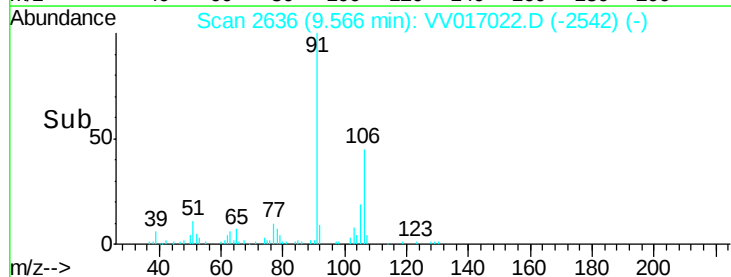
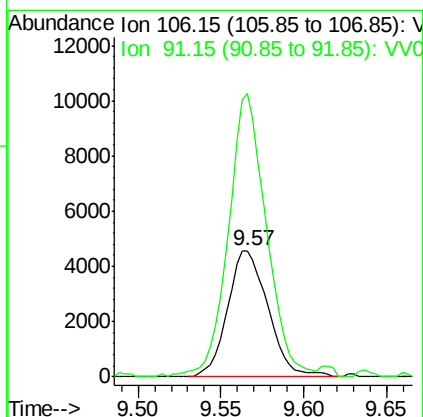
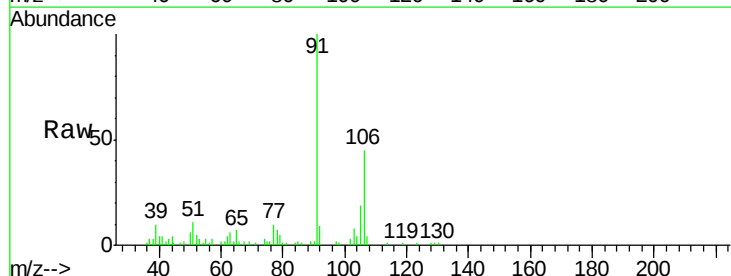
RT: 9.57 min Scan# 2636

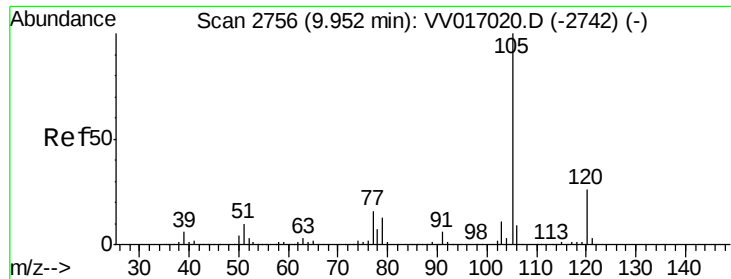
Delta R.T. 0.00 min

Lab File: VV017022.D

Acq: 22 Jun 2020 17:22

Tgt Ion	Ion	Ratio	Lower	Upper
106	100			
91	224.2	153.6	285.2	





#58

Isopropylbenzene

Concen: 0.331 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV017022.D

Acq: 22 Jun 2020 17:22

Instrument :

MSVOA_V

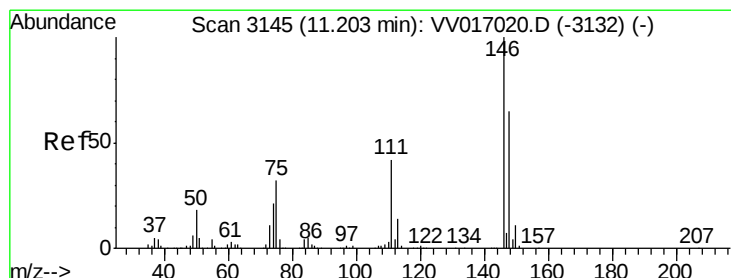
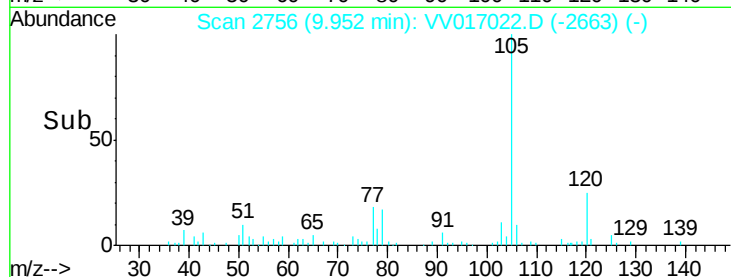
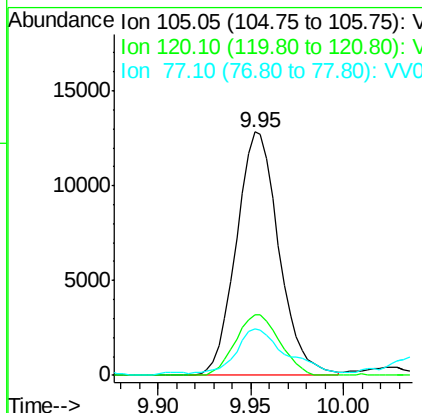
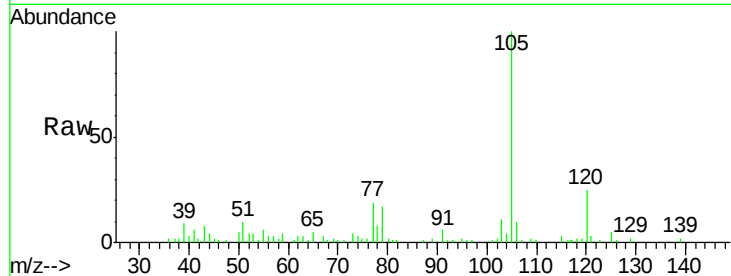
ClientSampleId :

BFXF8

Tot Ion:	105	Resp:	20477
Ion Ratio	Lower	Upper	
105	100		
120	25.7	21.2	31.8
77	20.2	13.0	19.4

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#63

1,3-Dichlorobenzene

Concen: 0.128 ug/L

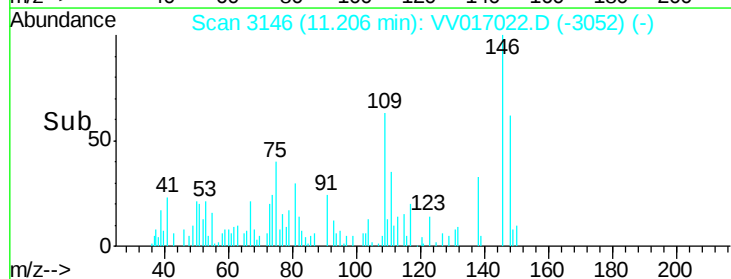
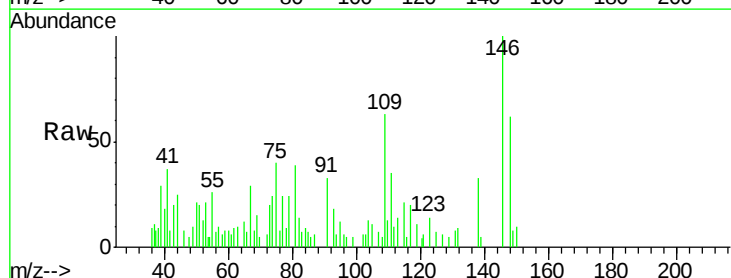
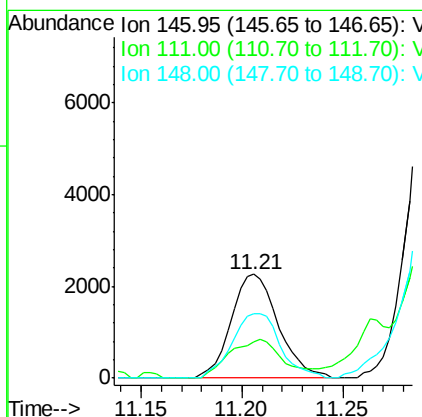
RT: 11.21 min Scan# 3146

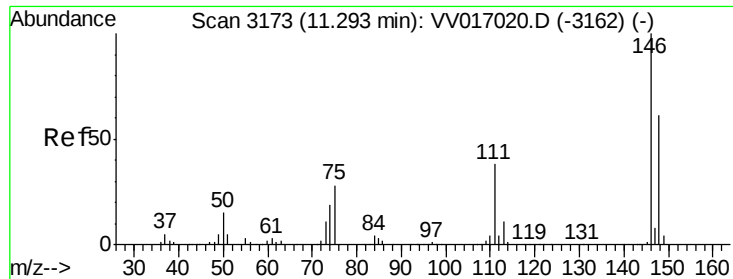
Delta R.T. 0.00 min

Lab File: VV017022.D

Acq: 22 Jun 2020 17:22

Tgt Ion:	146	Resp:	3699
Ion Ratio	Lower	Upper	
146	100		
111	34.9	29.2	54.2
148	61.7	44.9	83.5





#64

1,4-Dichlorobenzene

Concen: 0.428 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV017022.D

Acq: 22 Jun 2020 17:22

Instrument :

MSVOA_V

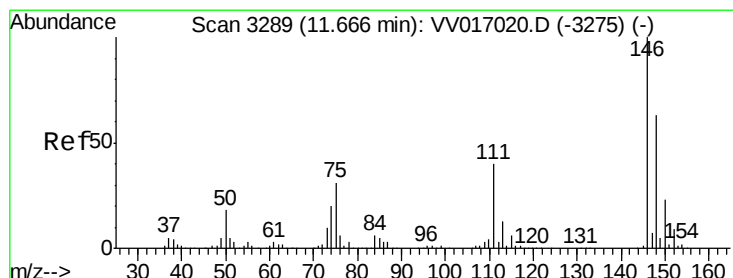
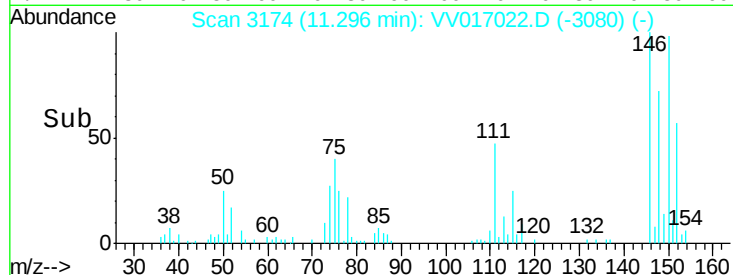
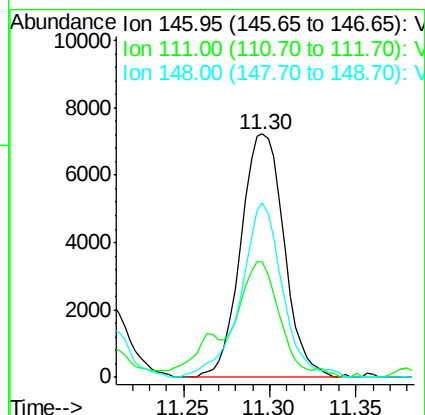
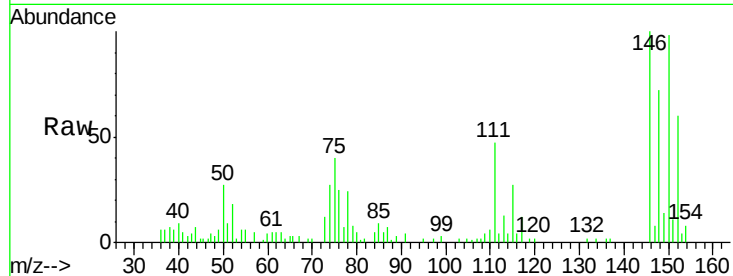
ClientSampleId :

BFXF8

Tot Ion:	146	Resp:	12588
Ion Ratio	Lower	Upper	
146	100		
111	47.3	27.4	50.8
148	71.7	44.3	82.3

Manual Integrations
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#66

1,2-Dichlorobenzene

Concen: 2.135 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV017022.D

Acq: 22 Jun 2020 17:22

Tgt Ion:	146	Resp:	56037
Ion Ratio	Lower	Upper	
146	100		
111	44.4	34.4	51.6
148	67.7	49.9	74.9

