

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071020\
 Data File : VV017430.D
 Acq On : 10 Jul 2020 10:58
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 11 00:19:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM070820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 10 13:38:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	286617	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	271218	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	150069	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	64305	43.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.20%
7) Chloroethane-d5	1.58	69	47591	45.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.80%
11) 1,1-Dichloroethene-d2	2.12	63	155442	46.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.02%
21) 2-Butanone-d5	3.91	46	99728	97.85	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.85%
24) Chloroform-d	4.37	84	162482	47.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.16%
26) 1,2-Dichloroethane-d4	5.05	65	112775	47.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.22%
32) Benzene-d6	5.07	84	275449	47.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.02%
36) 1,2-Dichloropropane-d6	6.09	67	80123	47.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.98%
41) Toluene-d8	7.33	98	268086	47.59	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.18%
43) trans-1,3-Dichloropropene-	7.64	79	47819	48.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.40%
47) 2-Hexanone-d5	8.11	63	72844	105.20	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.20%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	111953	47.26	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.52%
64) 1,2-Dichlorobenzene-d4	11.65	152	118253	47.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.26%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	140866	45.767	ug/L 100
3) Chloromethane	1.25	50	95419	44.034	ug/L 100
5) Vinyl chloride	1.32	62	98465	44.957	ug/L 96
6) Bromomethane	1.53	94	54588	49.102	ug/L 94
8) Chloroethane	1.60	64	51485	45.304	ug/L 96
9) Trichlorofluoromethane	1.76	101	188028	45.857	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	91136	47.882	ug/L 98
12) 1,1-Dichloroethene	2.13	96	79356	46.096	ug/L 92
13) Acetone	2.19	43	127556	91.944	ug/L 100
14) Carbon disulfide	2.31	76	224195	42.788	ug/L 100
15) Methyl Acetate	2.44	43	81941	44.497	ug/L 98
16) Methylene chloride	2.52	84	87700	43.757	ug/L 99
17) trans-1,2-Dichloroethene	2.78	96	84409	45.088	ug/L 98
18) Methyl tert-butyl Ether	2.78	73	295174	47.261	ug/L 100
19) 1,1-Dichloroethane	3.21	63	155332	45.124	ug/L 98
20) cis-1,2-Dichloroethene	3.94	96	92834	46.281	ug/L 100
22) 2-Butanone	3.99	43	129754	95.682	ug/L 95

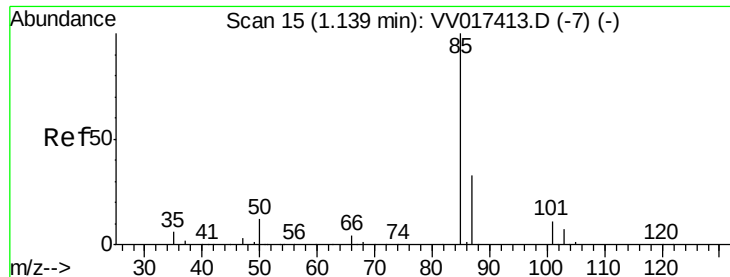
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071020\
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 Quant Title : VOC Analysis
 QLast Update : Fri Jul 10 13:38:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	51702	46.324	ug/L	96
25) Chloroform	4.40	83	182317	47.186	ug/L	97
27) 1,2-Dichloroethane	5.15	62	156697	46.138	ug/L	98
29) Cyclohexane	4.70	56	132370	46.802	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	179847	48.221	ug/L	99
31) Carbon tetrachloride	4.85	117	165041	48.346	ug/L	99
33) Benzene	5.12	78	339130	47.303	ug/L	100
34) Trichloroethene	5.94	95	96816	45.485	ug/L	97
35) Methylcyclohexane	6.15	83	148152	47.531	ug/L	100
37) 1,2-Dichloropropane	6.20	63	84434	48.151	ug/L	99
38) Bromodichloromethane	6.53	83	136895	47.944	ug/L	100
39) cis-1,3-Dichloropropene	7.05	75	143092	47.884	ug/L	99
40) 4-Methyl-2-pentanone	7.24	43	229879	94.808	ug/L	99
42) Toluene	7.41	91	383861	47.903	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	149961	48.519	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	89709	47.152	ug/L	94
46) Tetrachloroethene	8.00	164	83009	46.445	ug/L	98
48) 2-Hexanone	8.16	43	185067	94.285	ug/L	97
49) Dibromochloromethane	8.27	129	110711	46.646	ug/L	100
50) 1,2-Dibromoethane	8.37	107	95530	46.912	ug/L	99
51) Chlorobenzene	8.90	112	249758	45.995	ug/L	99
52) Ethylbenzene	9.03	91	436184	47.589	ug/L	99
53) m,p-Xylene	9.16	106	166215	48.438	ug/L	99
54) o-xylene	9.56	106	163500	49.605	ug/L	99
55) Styrene	9.58	104	278570	48.656	ug/L	95
56) Isopropylbenzene	9.95	105	451483	49.236	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	127478	45.627	ug/L	97
59) 1,2,3-Trichloropropane	10.30	75	112798	46.421	ug/L	99
61) Bromoform	9.75	173	83032	45.999	ug/L	98
62) 1,3-Dichlorobenzene	11.20	146	219992	46.979	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	217472	45.758	ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	220168	47.165	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	34844	45.873	ug/L	95
67) 1,3,5-Trichlorobenzene	12.67	180	171770	48.696	ug/L	99
68) 1,2,4-trichlorobenzene	13.29	180	148431	47.986	ug/L	97
69) Naphthalene	13.52	128	435064	50.365	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	154983	49.258	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 45.767 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

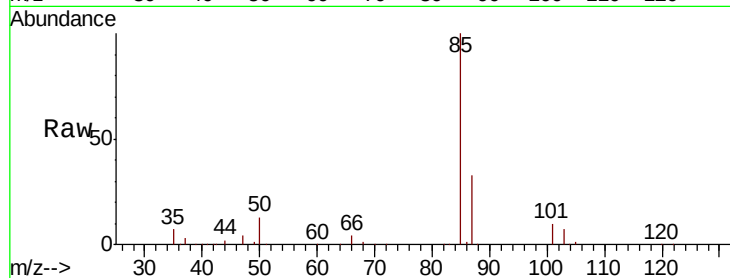
ClientSampleId :

Tot Ion: 85 Resp: 140866

Ion Ratio Lower Upper

85 100

87 32.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

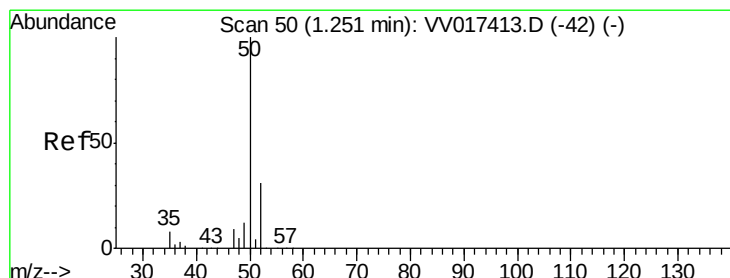
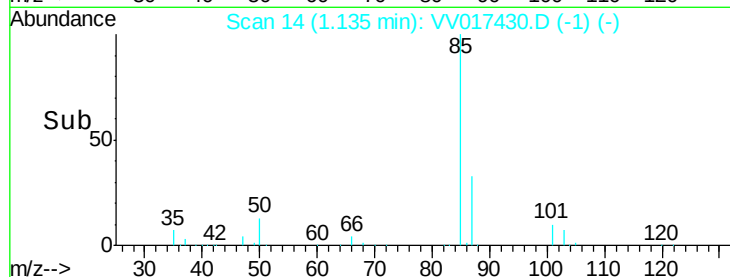
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 44.034 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV017430.D

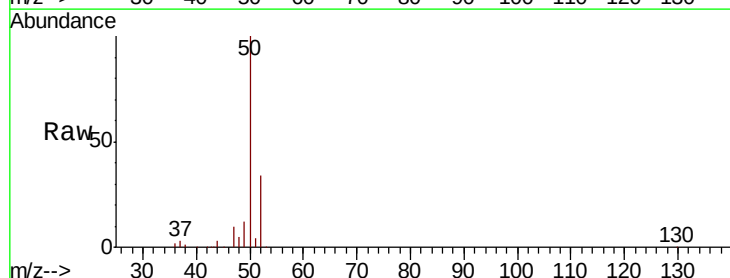
Acq: 10 Jul 2020 10:58

Tgt Ion: 50 Resp: 95419

Ion Ratio Lower Upper

50 100

52 33.6 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

100000

80000

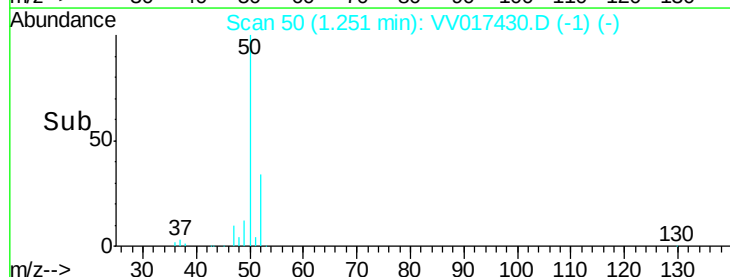
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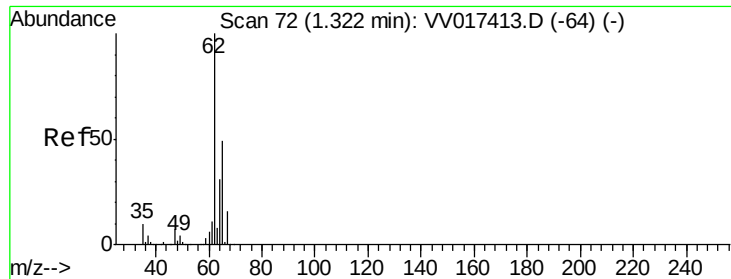
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 44.957 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

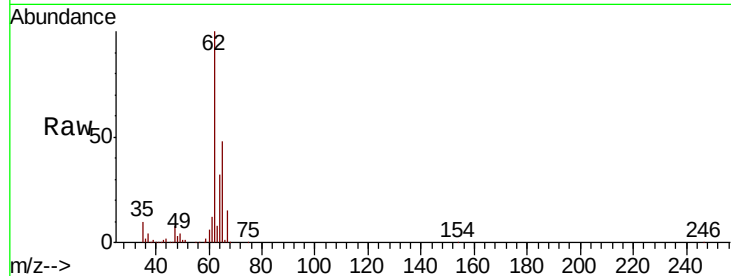
ClientSampleId :

Tot Ion: 62 Resp: 98465

Ion Ratio Lower Upper

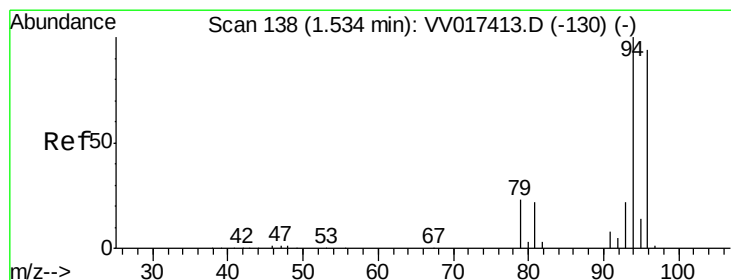
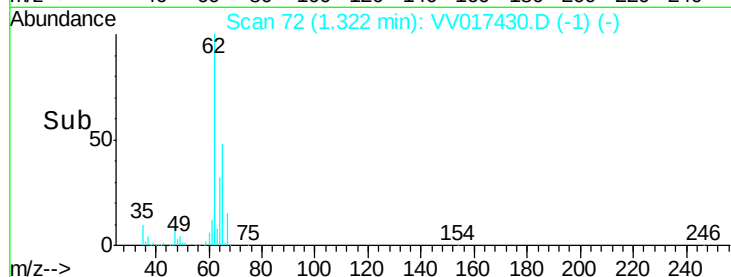
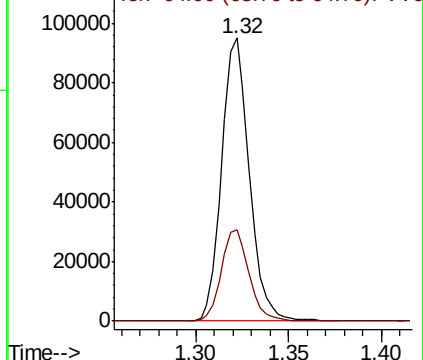
62 100

64 32.3 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 49.102 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV017430.D

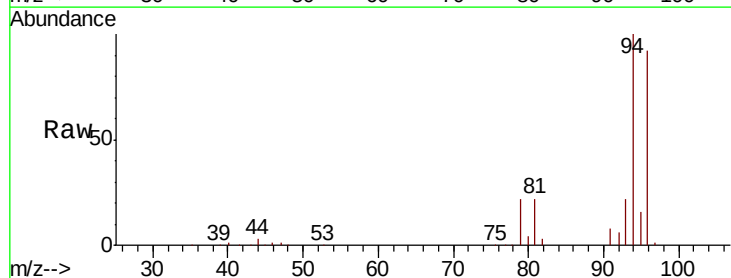
Acq: 10 Jul 2020 10:58

Tgt Ion: 94 Resp: 54588

Ion Ratio Lower Upper

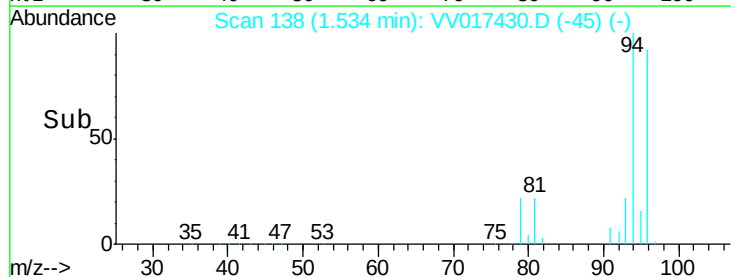
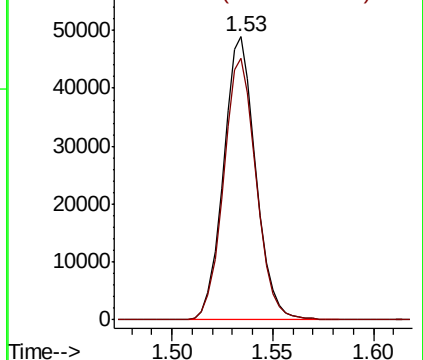
94 100

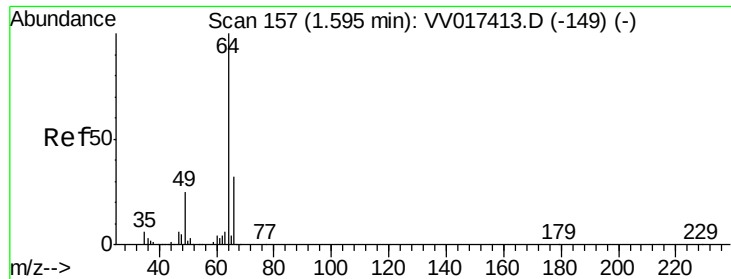
96 92.4 69.0 128.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

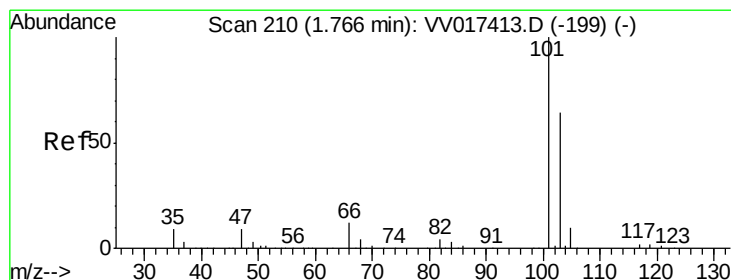
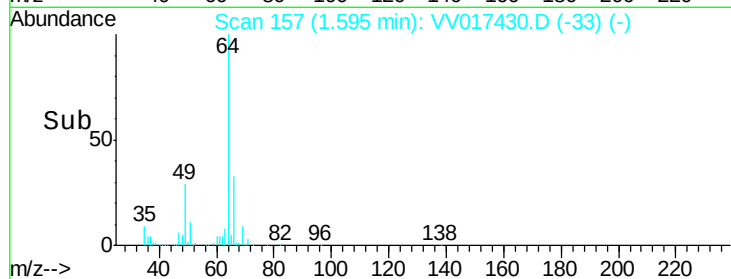
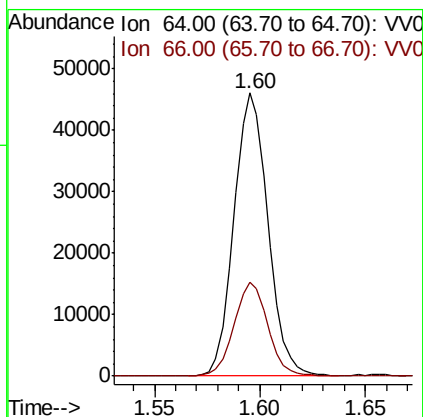
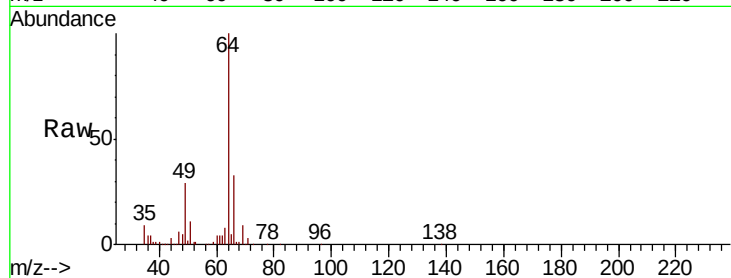




#8
Chloroethane
Concen: 45.304 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

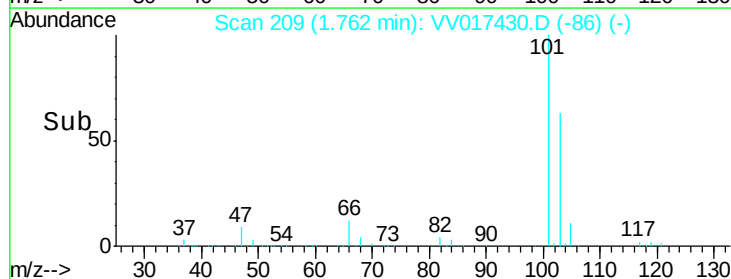
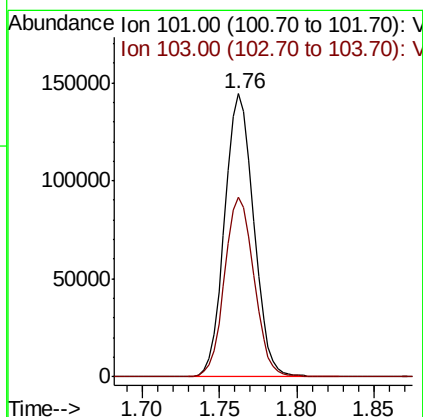
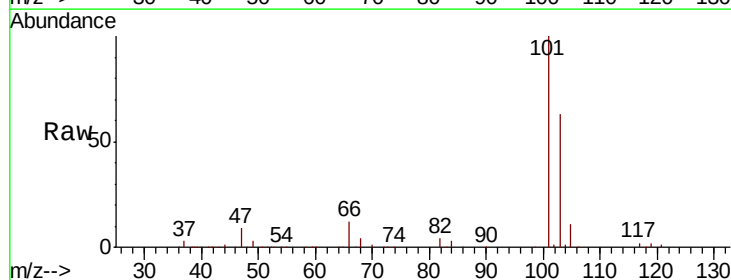
Instrument :
MSVOA_V
ClientSampled :

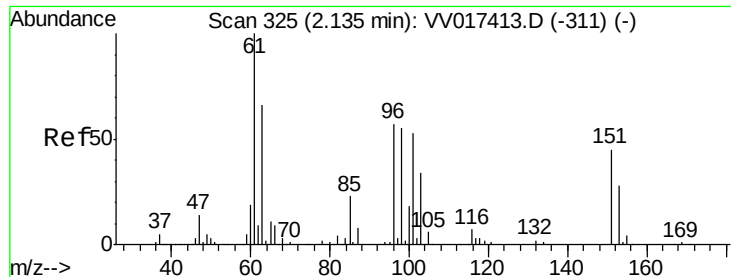
Tot Ion: 64 Resp: 51485
Ion Ratio Lower Upper
64 100
66 33.3 21.8 40.4



#9
Trichlorofluoromethane
Concen: 45.857 ug/L
RT: 1.76 min Scan# 209
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

Tgt Ion: 101 Resp: 188028
Ion Ratio Lower Upper
101 100
103 64.3 51.9 77.9





#10

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

Concen: 47.882 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

ClientSampled :

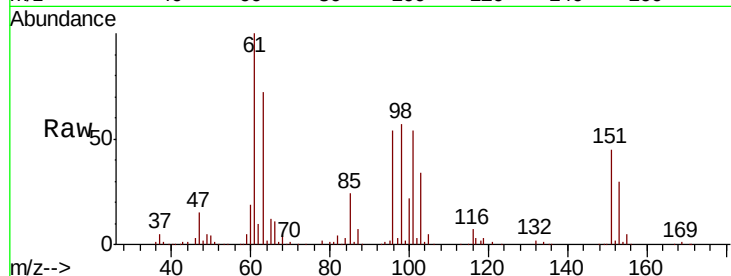
Tot Ion:101 Resp: 91136

Ion Ratio Lower Upper

101 100

85 44.3 36.2 54.4

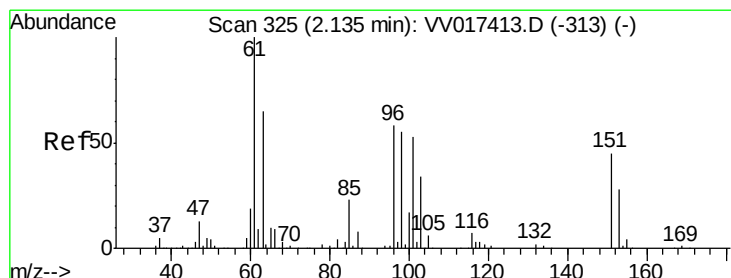
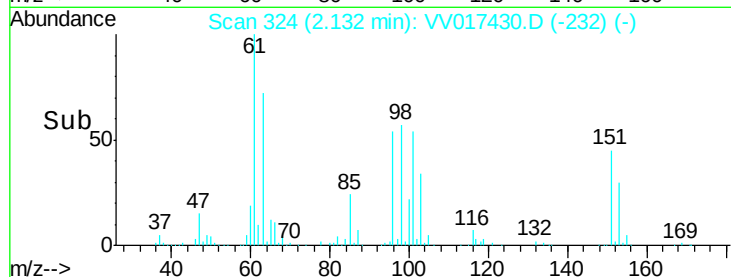
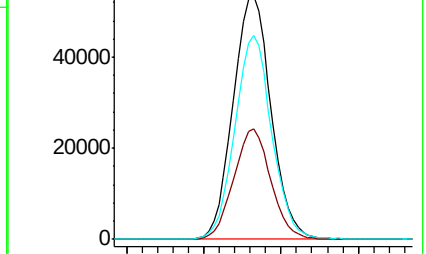
151 81.4 66.8 100.2



Abundance Ion 101.00 (100.70 to 101.70): VV017430.D (-232) (-)

Ion 85.00 (84.70 to 85.70): VV017430.D (-232) (-)

Ion 151.00 (150.70 to 151.70): VV017430.D (-232) (-)



#12

1,1-Dichloroethene

Concen: 46.096 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

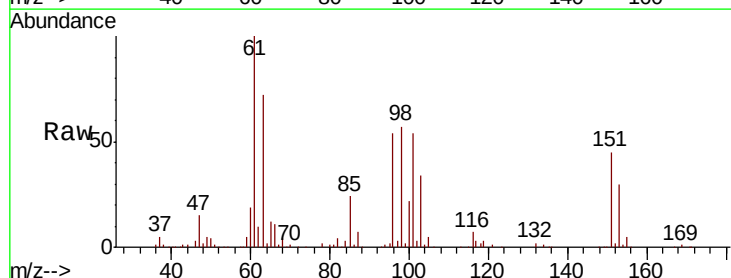
Tgt Ion: 96 Resp: 79356

Ion Ratio Lower Upper

96 100

61 184.0 132.7 246.4

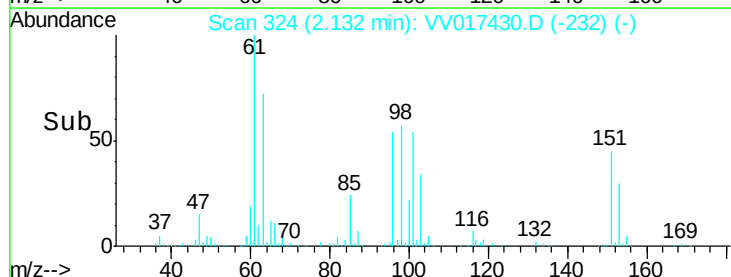
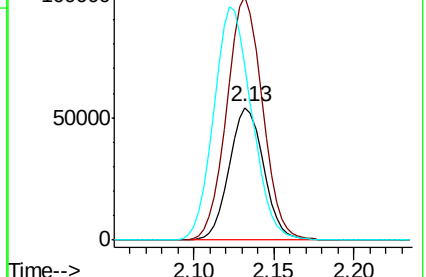
63 131.6 103.3 191.8

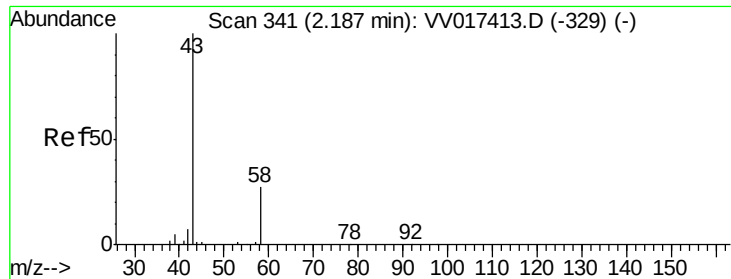


Abundance Ion 96.00 (95.70 to 96.70): VV017430.D (-232) (-)

Ion 61.00 (60.70 to 61.70): VV017430.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV017430.D (-232) (-)





#13

Acetone

Concen: 91.944 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

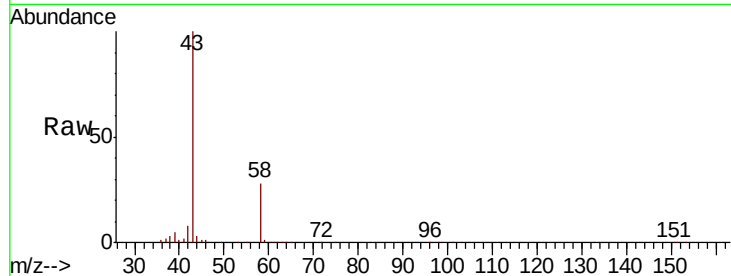
ClientSampleId :

Tot Ion: 43 Resp: 127556

Ion Ratio Lower Upper

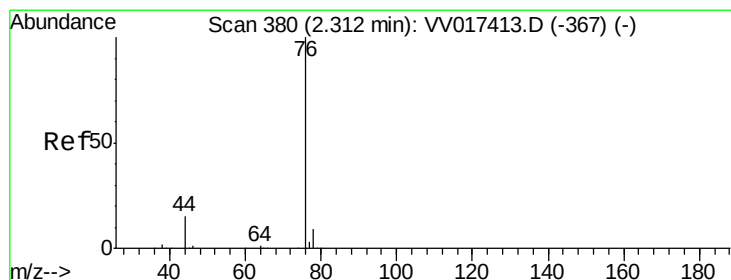
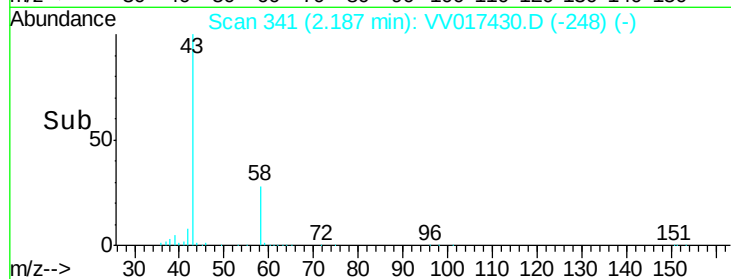
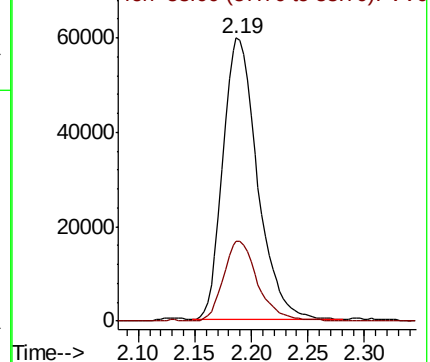
43 100

58 28.1 0.0 56.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 42.788 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV017430.D

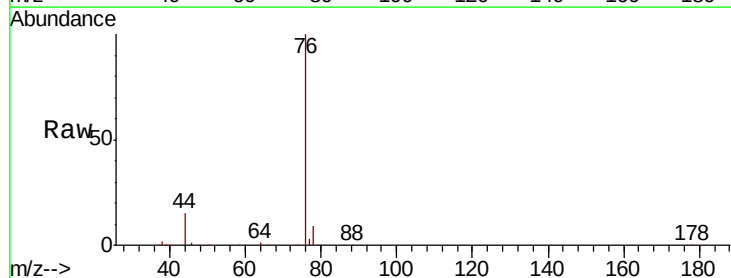
Acq: 10 Jul 2020 10:58

Tgt Ion: 76 Resp: 224195

Ion Ratio Lower Upper

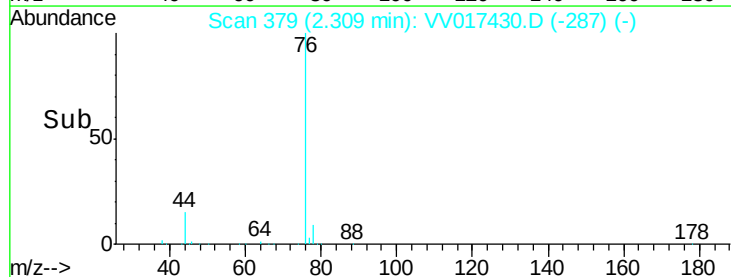
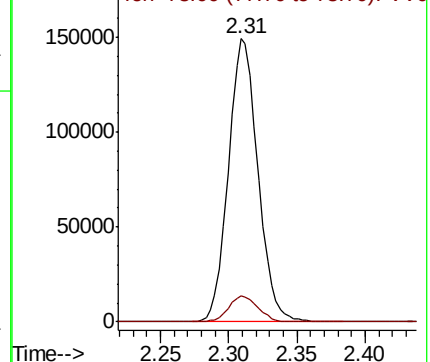
76 100

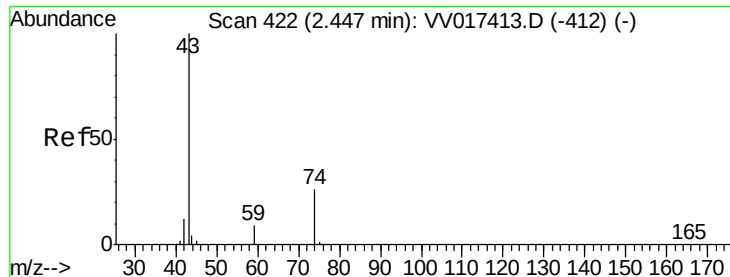
78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

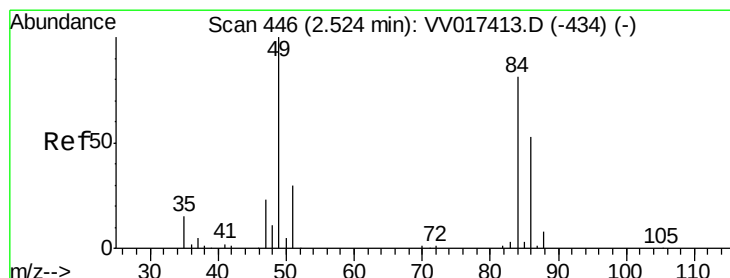
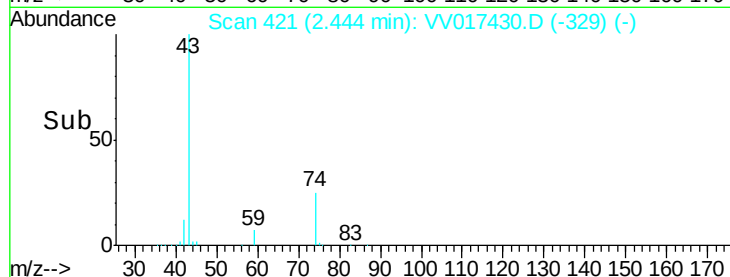
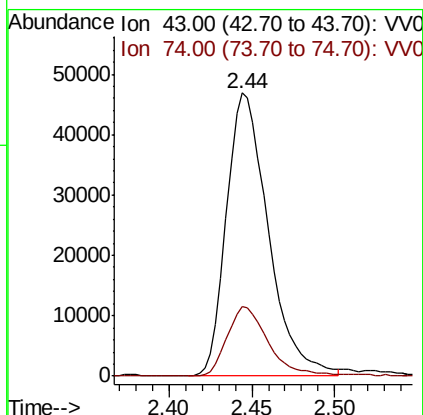
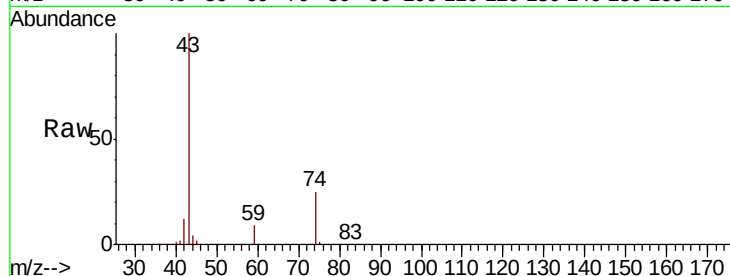




#15
Methvl Acetate
Concen: 44.497 ug/L
RT: 2.44 min Scan# 421
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

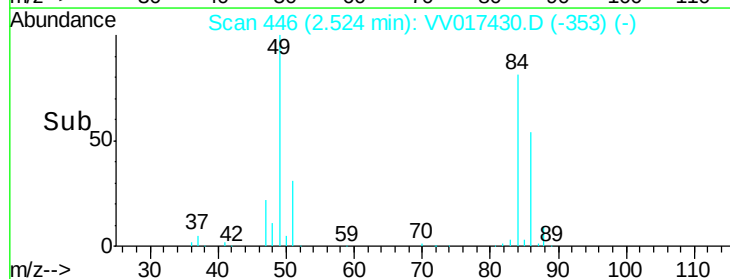
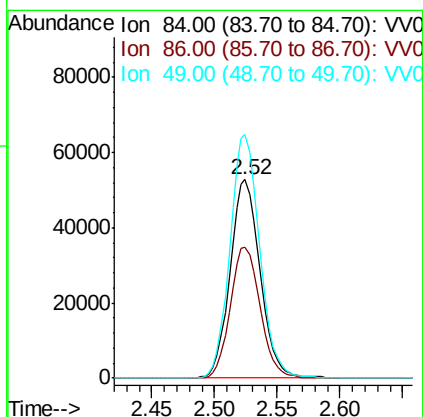
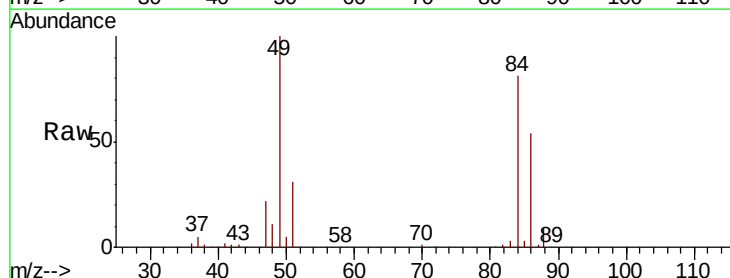
Instrument :
MSVOA_V
ClientSampled :

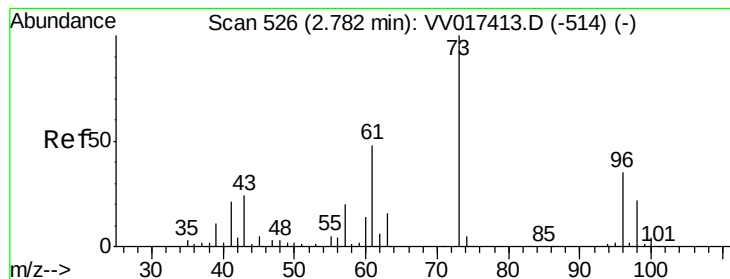
Tot Ion: 43 Resp: 81941
Ion Ratio Lower Upper
43 100
74 24.2 20.2 30.4



#16
Methylene chloride
Concen: 43.757 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

Tgt Ion: 84 Resp: 87700
Ion Ratio Lower Upper
84 100
86 66.3 46.5 86.5
49 122.7 85.3 158.5





#17

trans-1,2-Dichloroethene

Concen: 45.088 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :
MSVOA_V
ClientSampled :

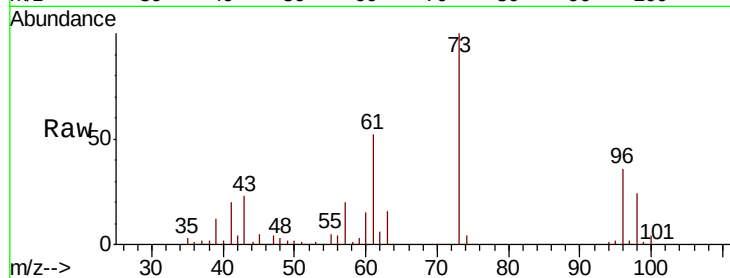
Tot Ion: 96 Resp: 84409

Ion Ratio Lower Upper

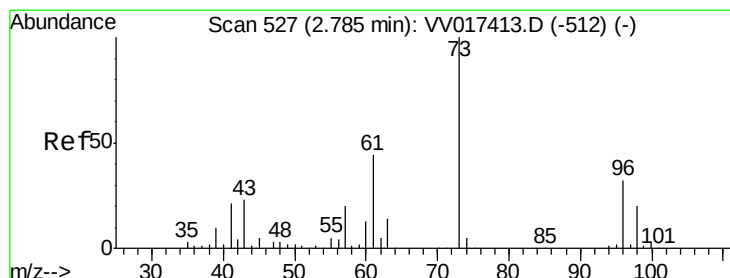
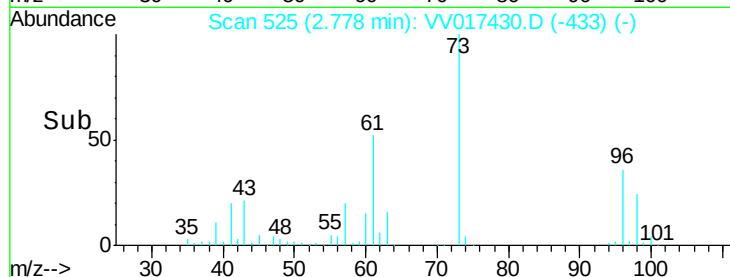
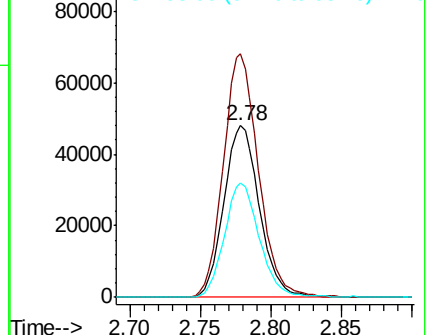
96 100

61 142.1 99.0 184.0

98 66.8 44.4 82.5



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



#18

Methyl tert-butyl Ether

Concen: 47.261 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

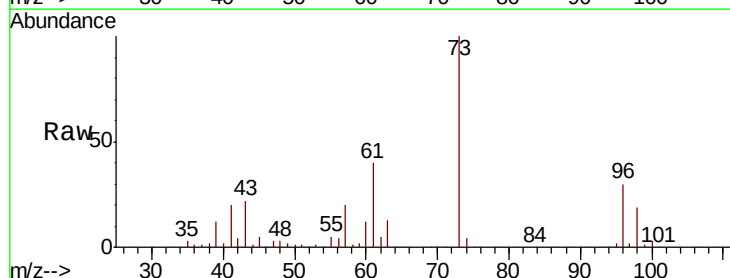
Tgt Ion: 73 Resp: 295174

Ion Ratio Lower Upper

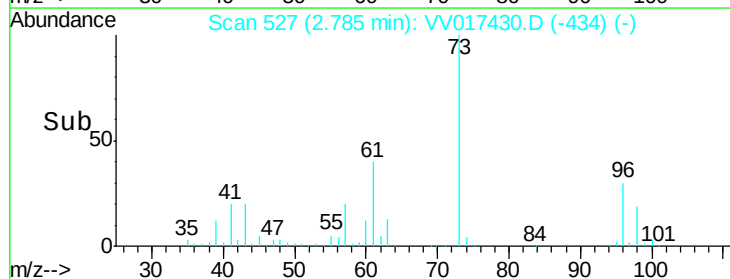
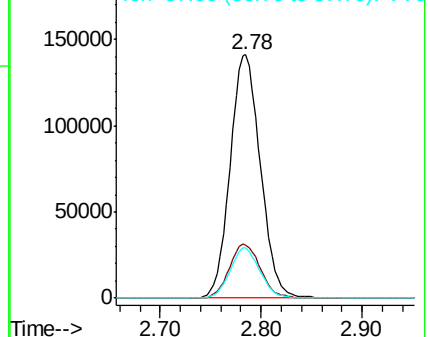
73 100

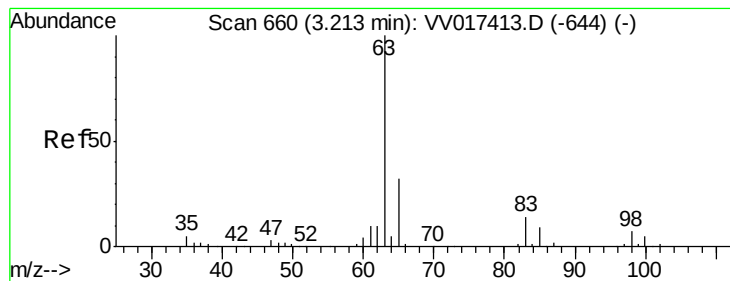
43 22.5 18.2 27.2

57 20.2 16.2 24.4



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 45.124 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

ClientSampleId :

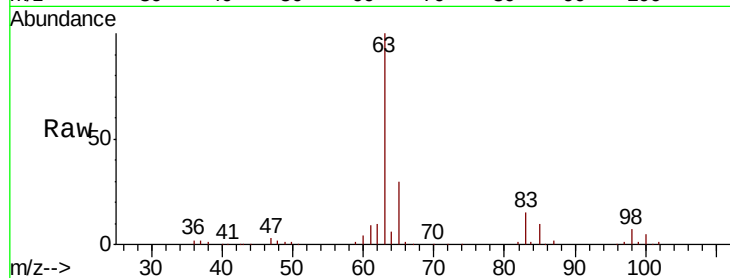
Tot Ion: 63 Resp: 155332

Ion Ratio Lower Upper

63 100

65 30.0 22.1 41.1

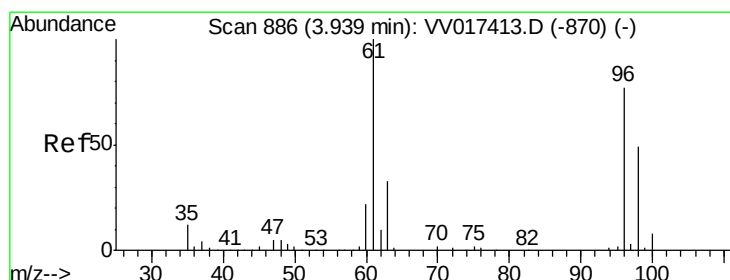
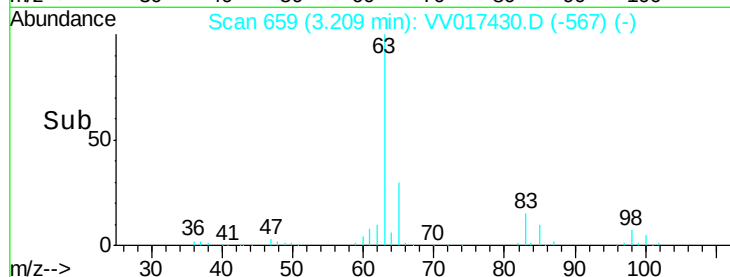
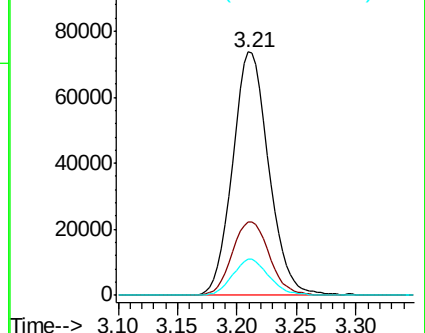
83 14.8 10.1 18.9



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 46.281 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

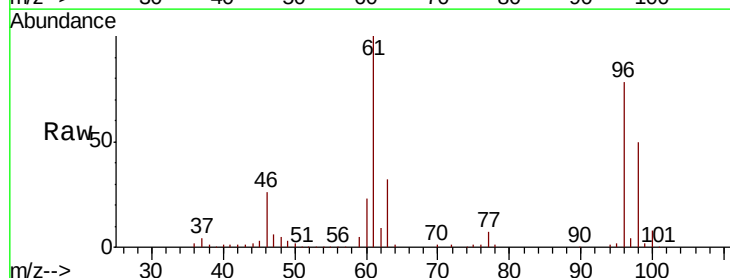
Tgt Ion: 96 Resp: 92834

Ion Ratio Lower Upper

96 100

61 127.4 88.9 165.1

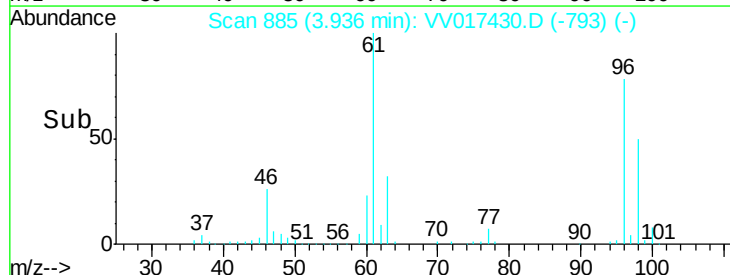
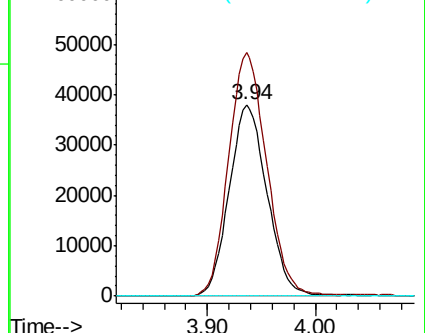
68 0.0 0.0 0.0

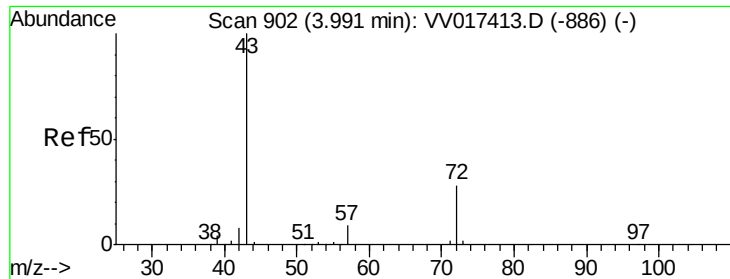


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 95.682 ug/L

RT: 3.99 min Scan# 901

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

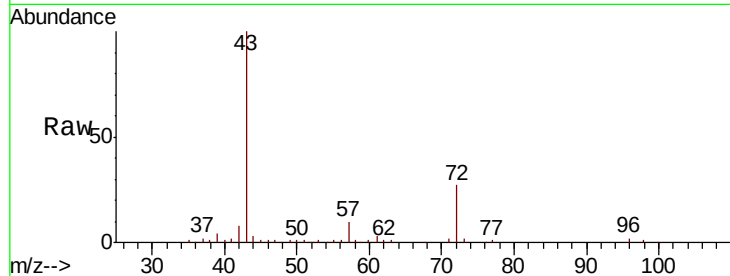
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 129754

Ion Ratio Lower Upper

43 100

72 26.3 11.9 35.5

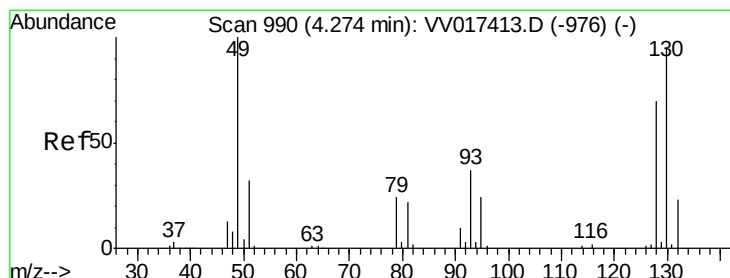
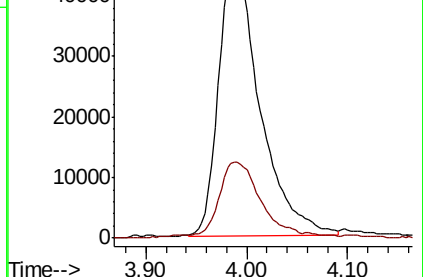
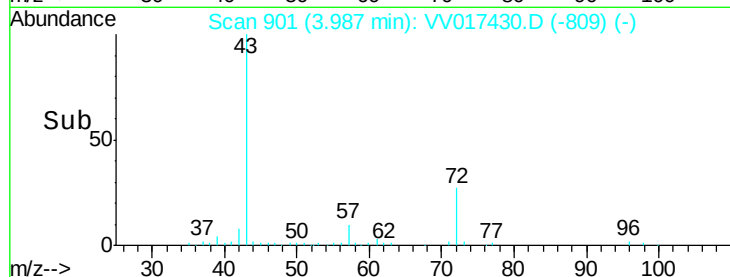


Abundance Ion 43.00 (42.70 to 43.70): VV017430.D (-890) (-)

Ion 72.00 (71.70 to 72.70): VV017430.D (-890) (-)

3.99

Time-->



#23

Bromochloromethane

Concen: 46.324 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Tgt Ion:128 Resp: 51702

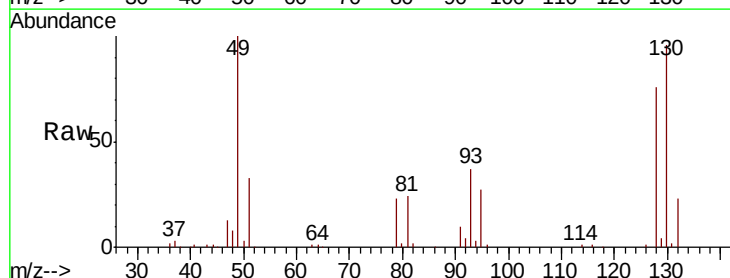
Ion Ratio Lower Upper

128 100

49 130.8 96.7 179.5

130 125.1 88.3 164.1

51 43.0 36.1 54.1



Abundance Ion 128.00 (127.70 to 128.70): VV017430.D (-897) (-)

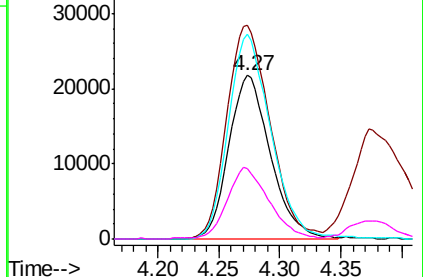
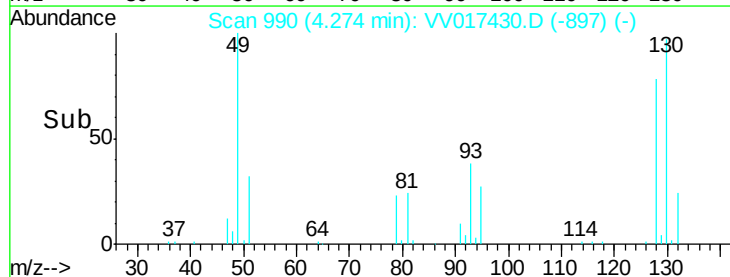
Ion 49.00 (48.70 to 49.70): VV017430.D (-897) (-)

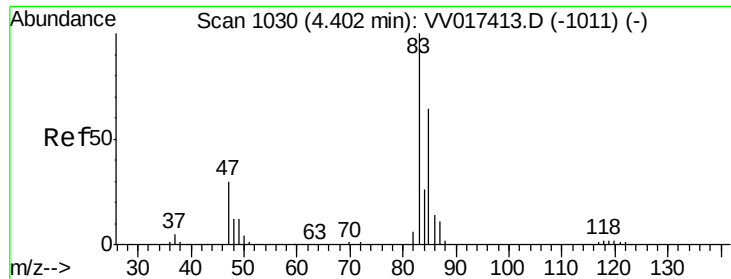
Ion 130.00 (129.70 to 130.70): VV017430.D (-897) (-)

Ion 51.00 (50.70 to 51.70): VV017430.D (-897) (-)

4.27

Time-->

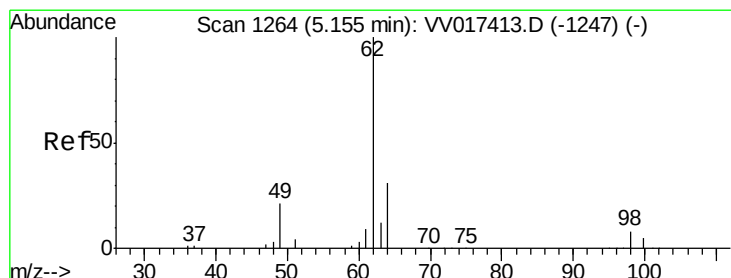
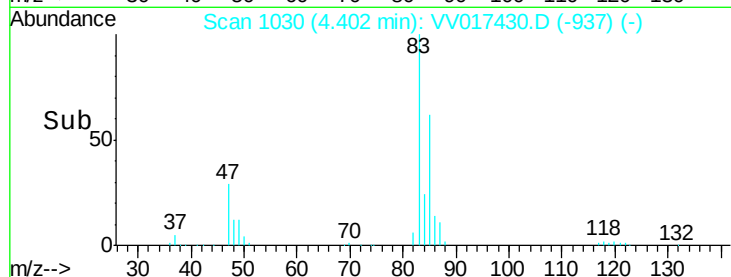
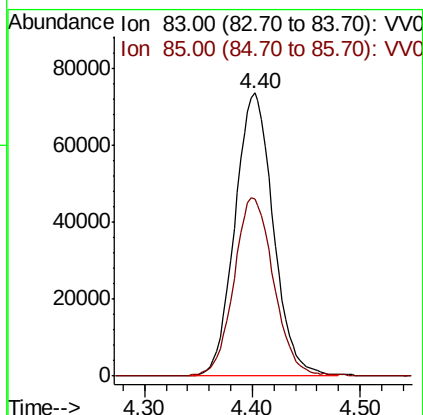
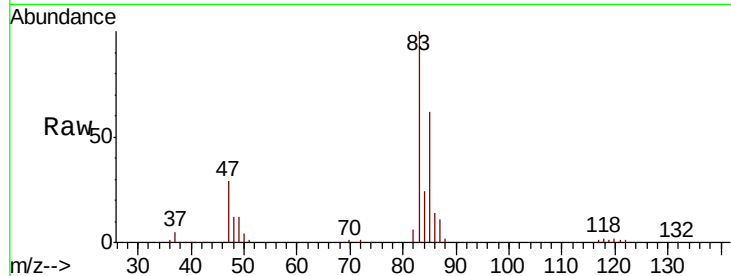




#25
Chloroform
Concen: 47.186 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

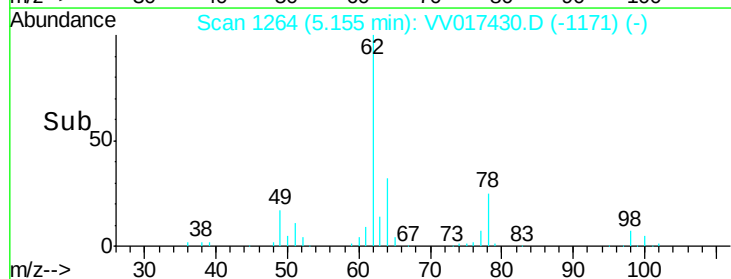
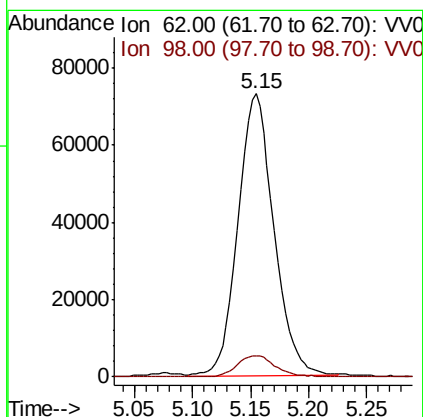
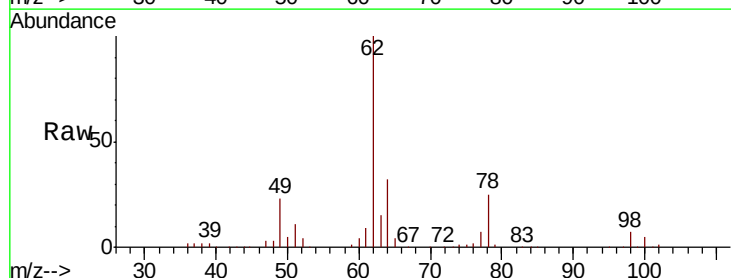
Instrument :
MSVOA_V
ClientSampled :

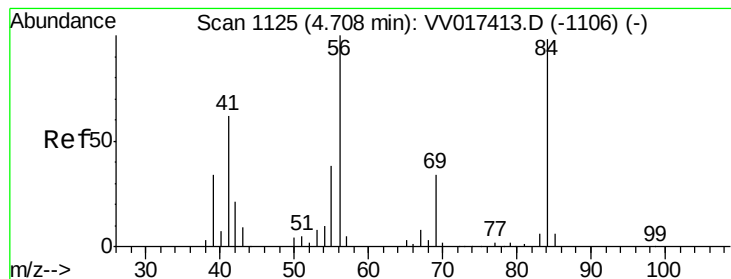
Tot Ion: 83 Resp: 182317
Ion Ratio Lower Upper
83 100
85 62.5 45.1 83.9



#27
1,2-Dichloroethane
Concen: 46.138 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

Tgt Ion: 62 Resp: 156697
Ion Ratio Lower Upper
62 100
98 7.4 6.4 9.6





#29

Cyclohexane

Concen: 46.802 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :
MSVOA_V
ClientSampleId :

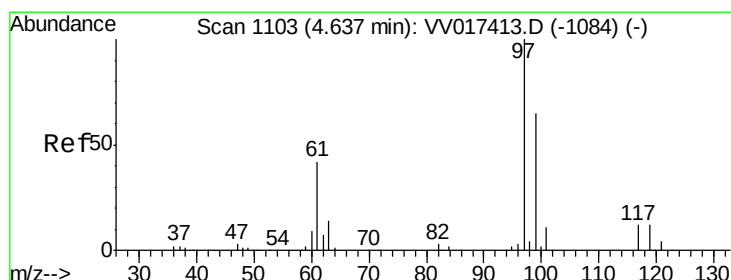
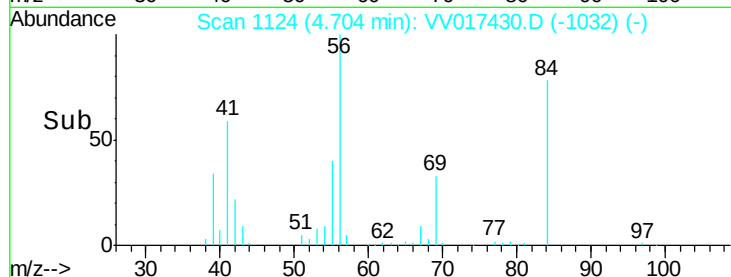
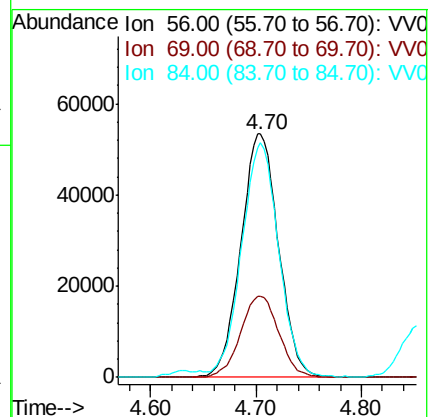
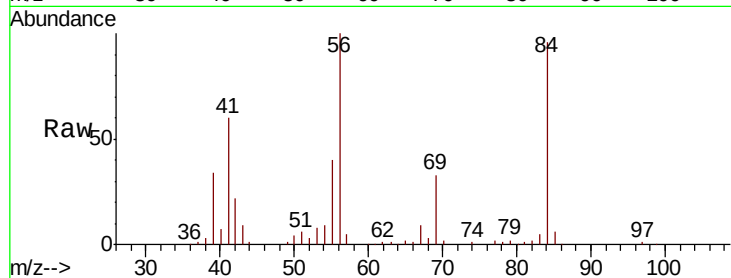
Tot Ion: 56 Resp: 132370

Ion Ratio Lower Upper

56 100

69 33.9 27.0 40.4

84 95.4 77.4 116.0



#30

1,1,1-Trichloroethane

Concen: 48.221 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

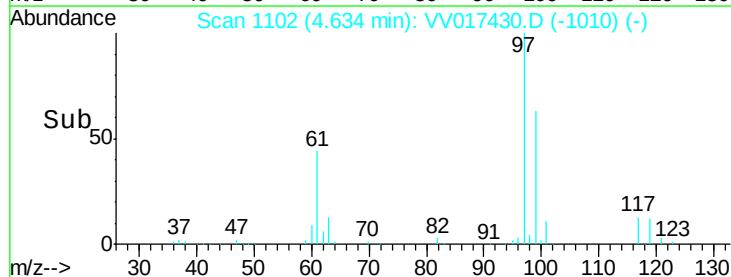
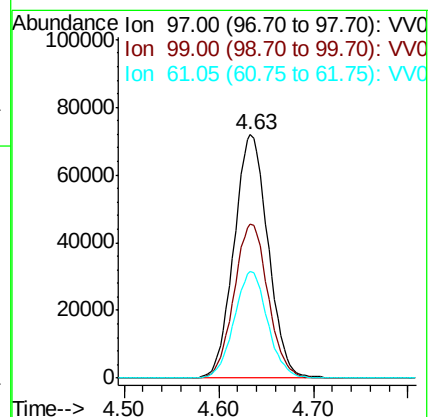
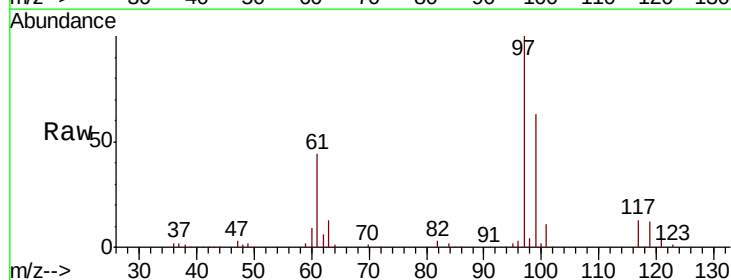
Tgt Ion: 97 Resp: 179847

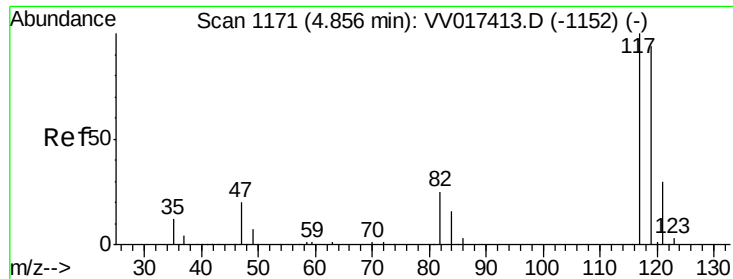
Ion Ratio Lower Upper

97 100

99 63.1 51.3 76.9

61 43.0 34.1 51.1





#31

Carbon tetrachloride

Concen: 48.346 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

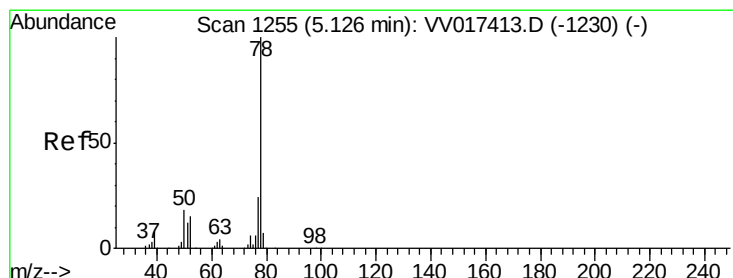
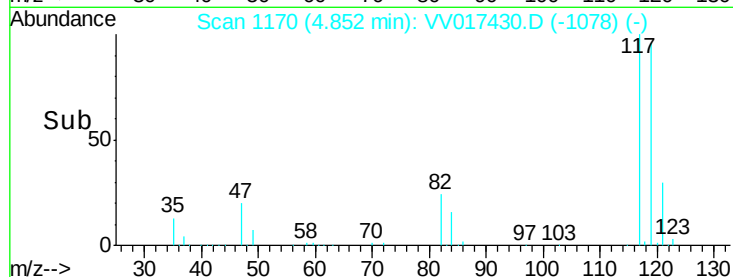
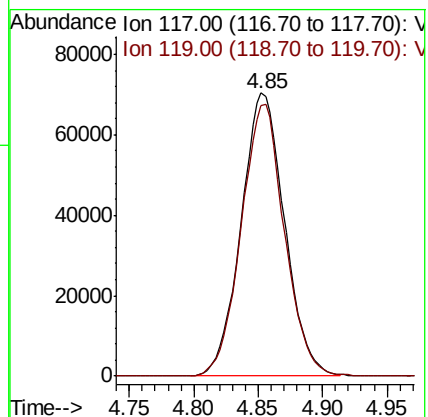
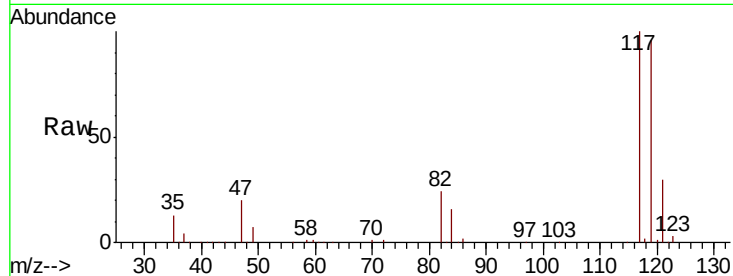
ClientSampleId :

Tot Ion:117 Resp: 165041

Ion Ratio Lower Upper

117 100

119 95.8 77.4 116.0



#33

Benzene

Concen: 47.303 ug/L

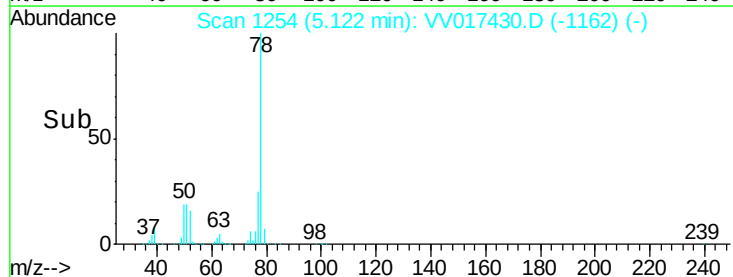
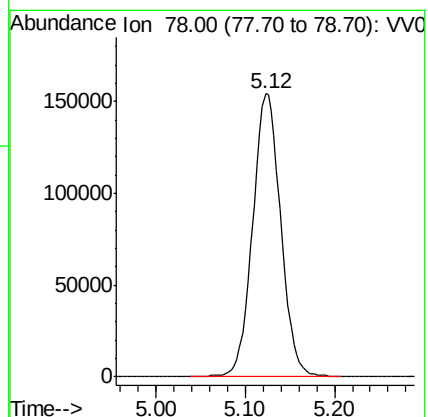
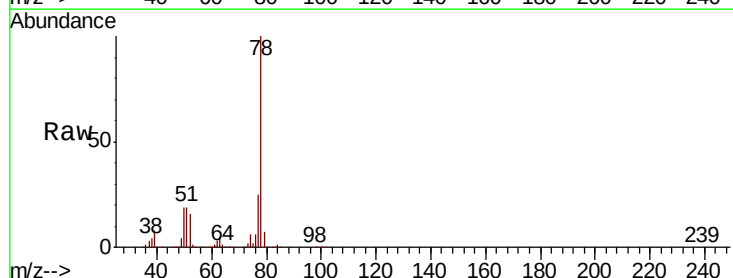
RT: 5.12 min Scan# 1254

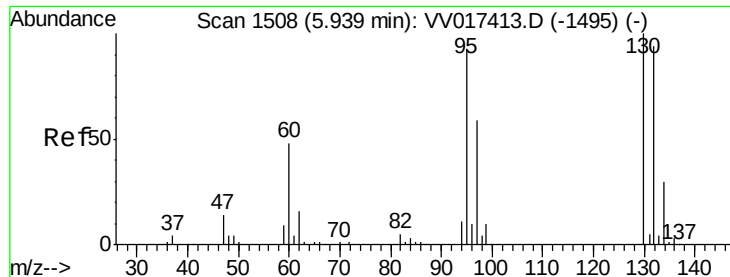
Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Tgt Ion: 78 Resp: 339130

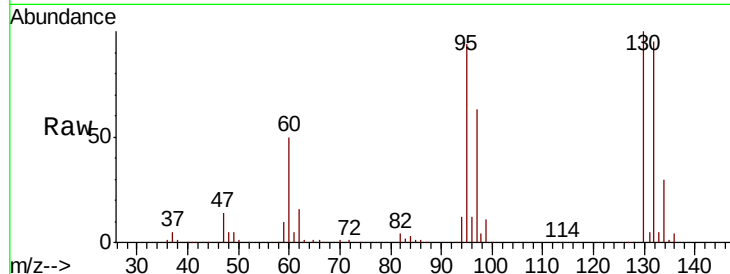




#34
 Trichloroethene
 Concen: 45.485 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 96816
 Ion Ratio Lower Upper
 95 100
 97 67.4 45.6 84.6
 132 101.6 74.1 137.5
 130 106.7 75.5 140.3



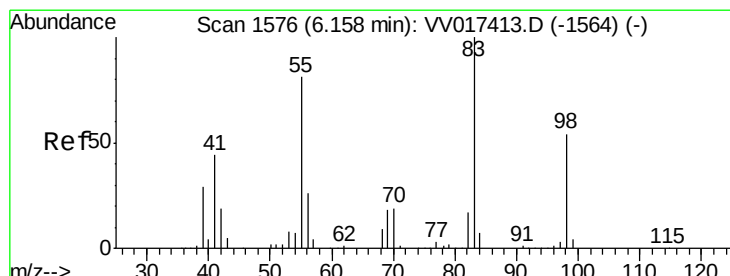
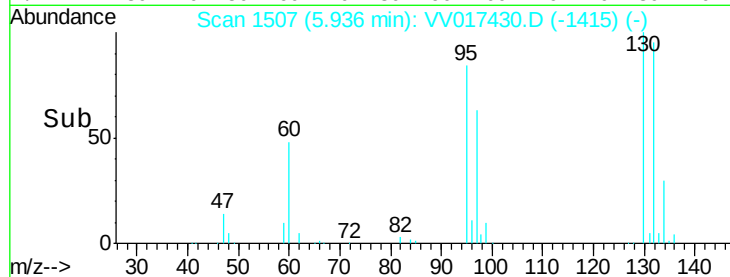
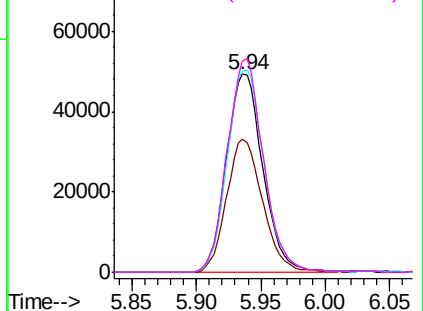
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

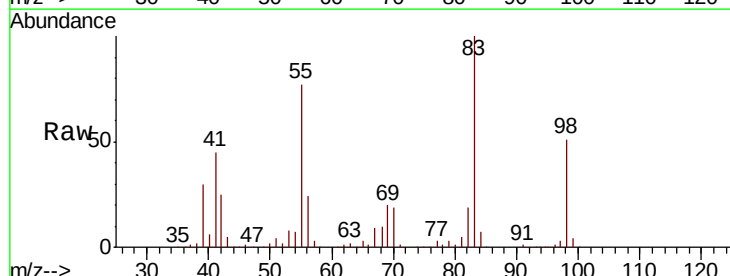
Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35
 Methylcyclohexane
 Concen: 47.531 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Tgt Ion: 83 Resp: 148152
 Ion Ratio Lower Upper
 83 100
 55 75.8 61.0 91.6
 98 51.9 41.3 61.9

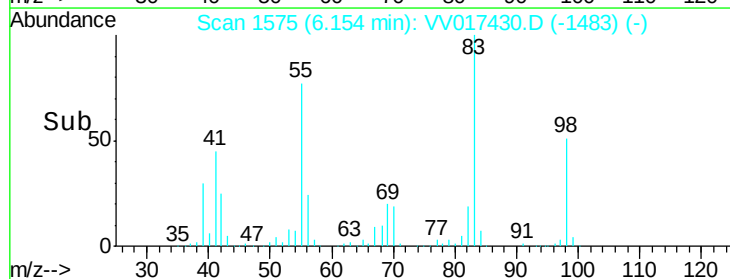
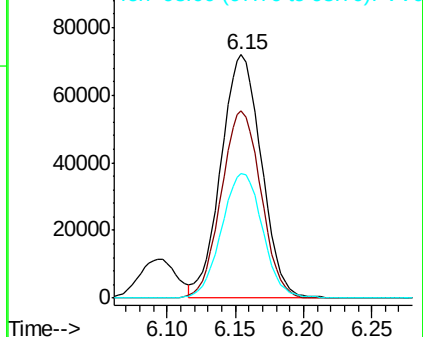


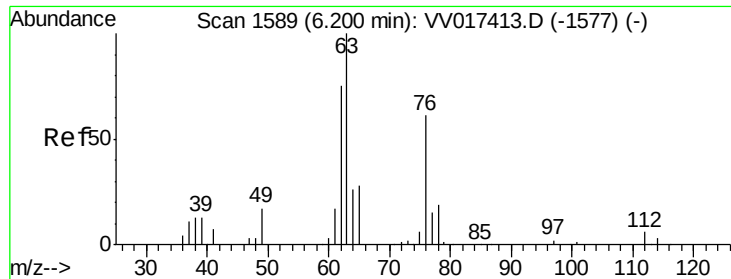
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

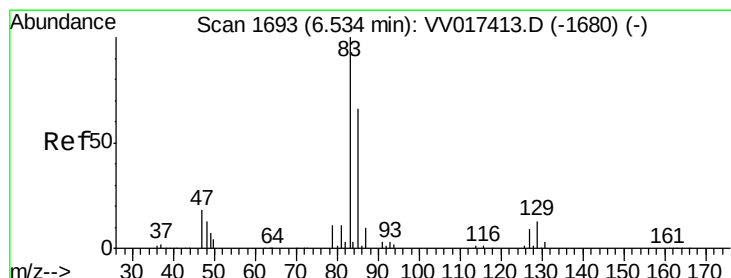
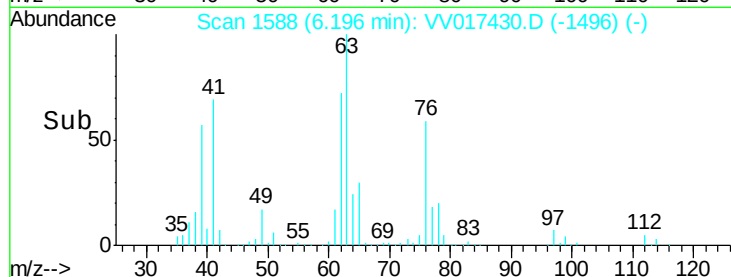
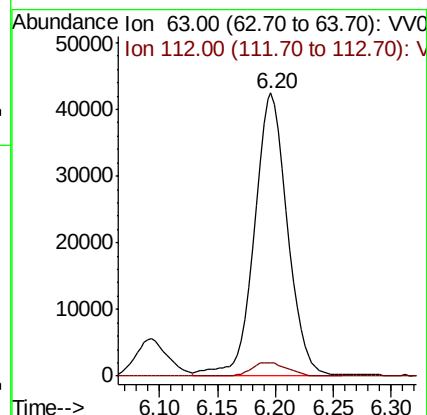
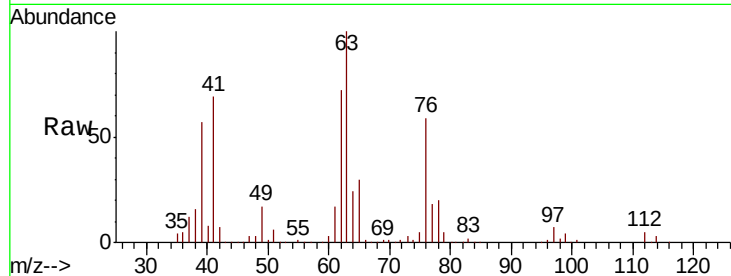




#37
 1,2-Dichloropropane
 Concen: 48.151 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

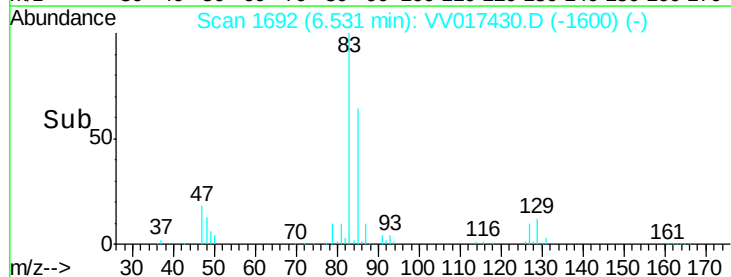
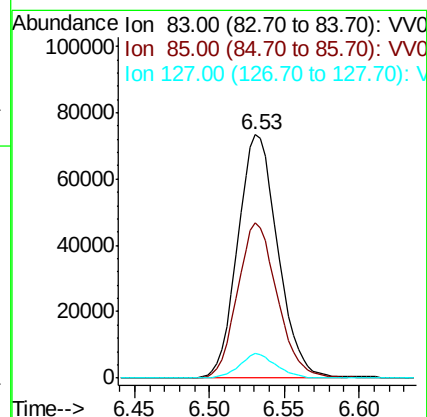
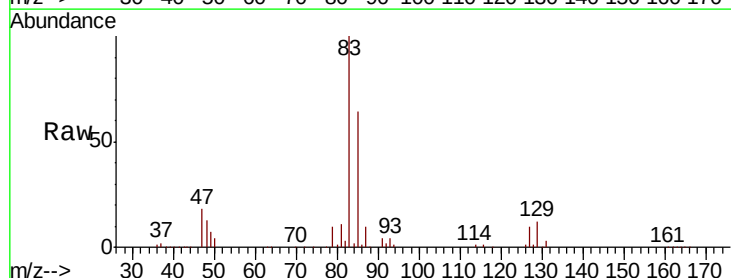
Instrument :
 MSVOA_V
 ClientSampleId :

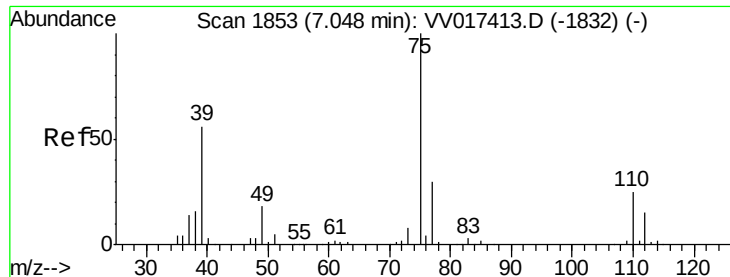
Tot Ion: 63 Resp: 84434
 Ion Ratio Lower Upper
 63 100
 112 5.3 4.4 6.6



#38
 Bromodichloromethane
 Concen: 47.944 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Tgt Ion: 83 Resp: 136895
 Ion Ratio Lower Upper
 83 100
 85 63.6 44.6 82.8
 127 10.0 7.4 11.2

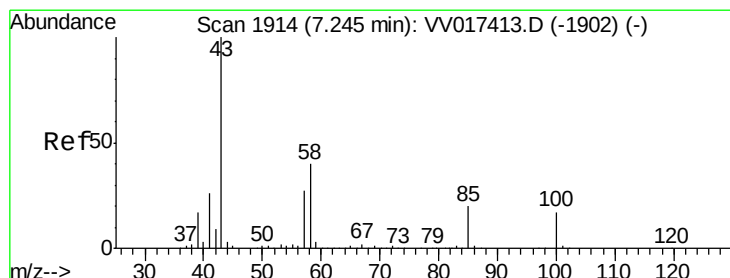
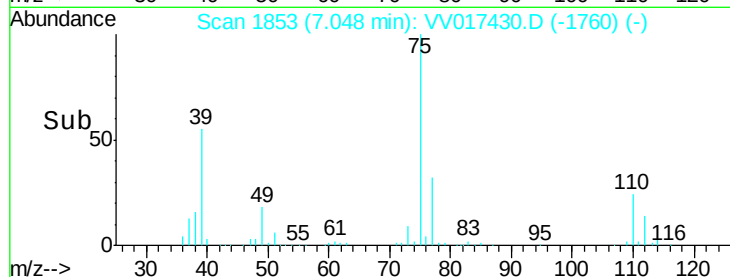
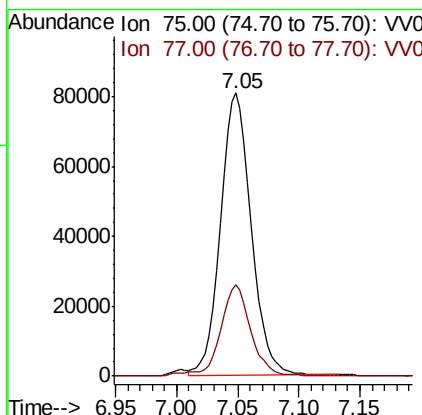
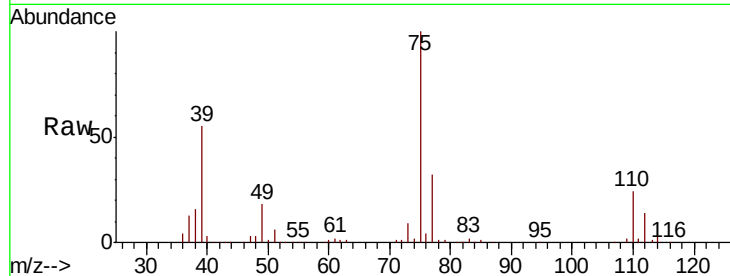




#39
 cis-1,3-Dichloropropene
 Concen: 47.884 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

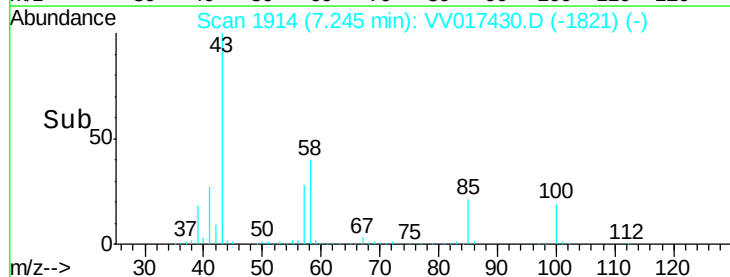
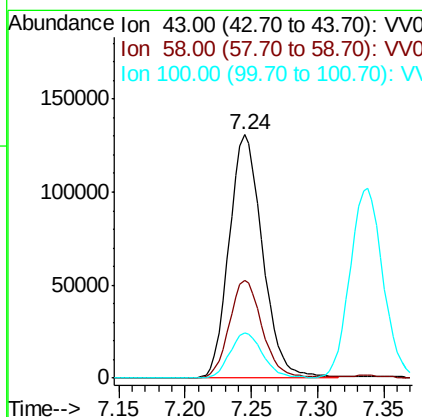
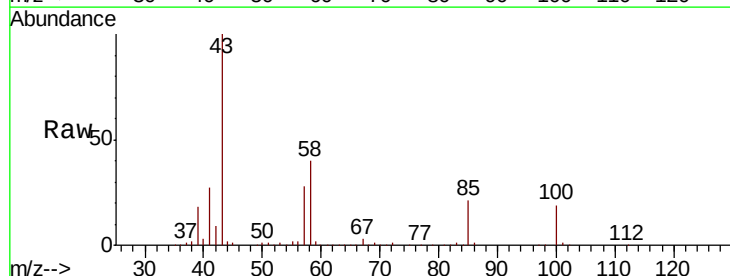
Instrument :
 MSVOA_V
 ClientSampleId :

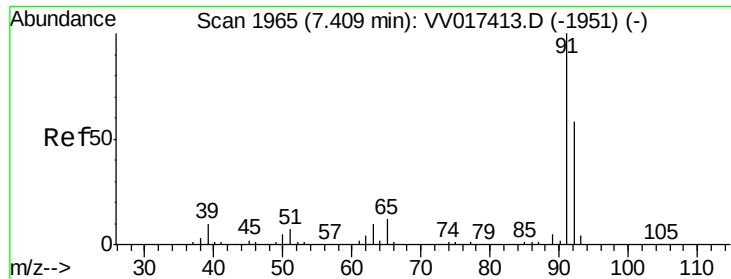
Tot Ion: 75 Resp: 143092
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 94.808 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Tgt Ion: 43 Resp: 229879
 Ion Ratio Lower Upper
 43 100
 58 39.6 32.2 48.4
 100 18.4 14.1 21.1





#42

Toluene

Concen: 47.903 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

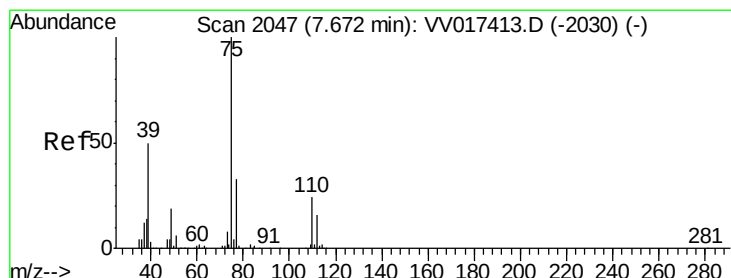
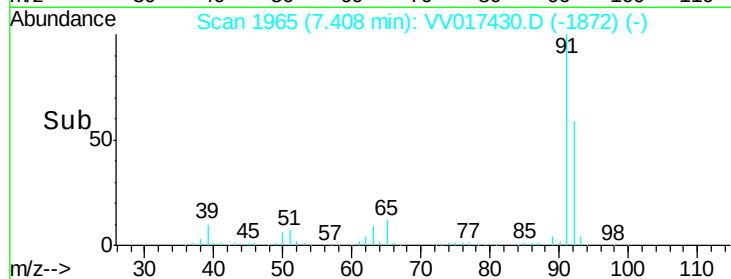
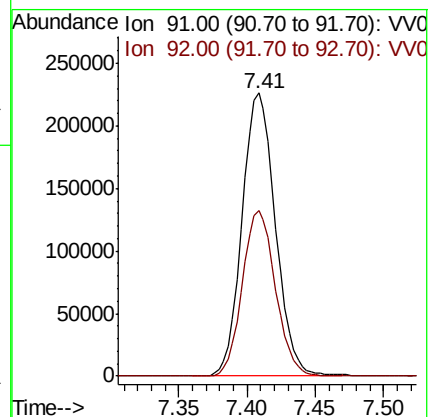
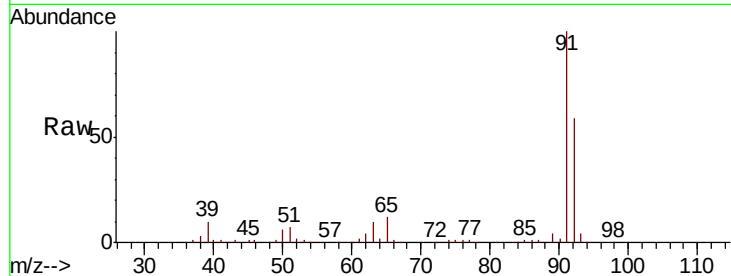
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 383861

Ion Ratio Lower Upper

91 100

92 58.5 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 48.519 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.00 min

Lab File: VV017430.D

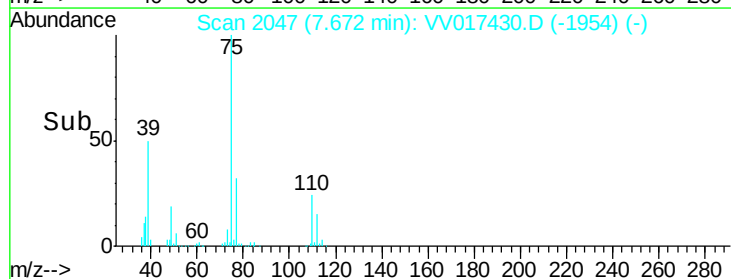
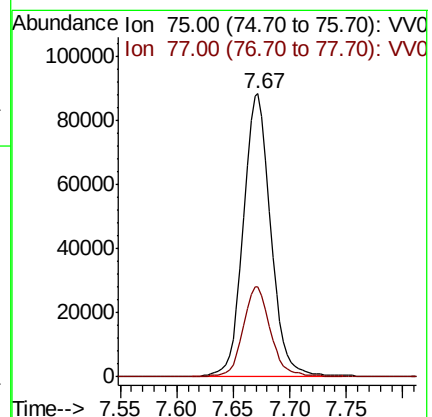
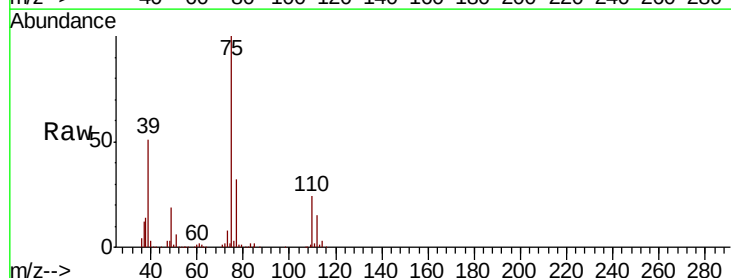
Acq: 10 Jul 2020 10:58

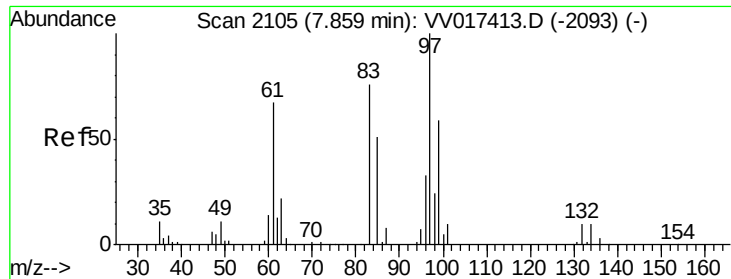
Tgt Ion: 75 Resp: 149961

Ion Ratio Lower Upper

75 100

77 31.8 21.3 39.5

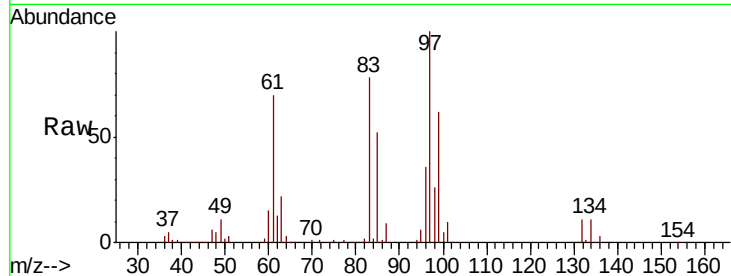




#45
 1,1,2-Trichloroethane
 Concen: 47.152 ug/L
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	89709
Ion	Ratio	Lower	Upper
97	100		
99	62.4	44.6	82.8
83	77.5	60.1	111.7
85	51.7	39.0	72.4



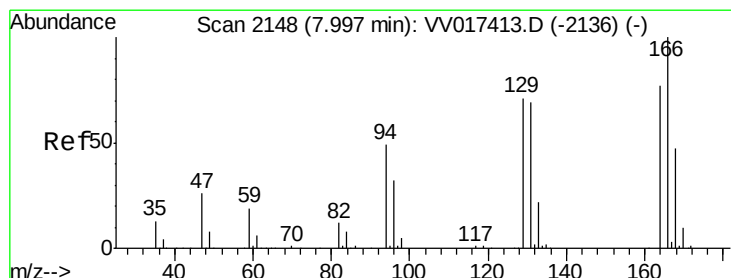
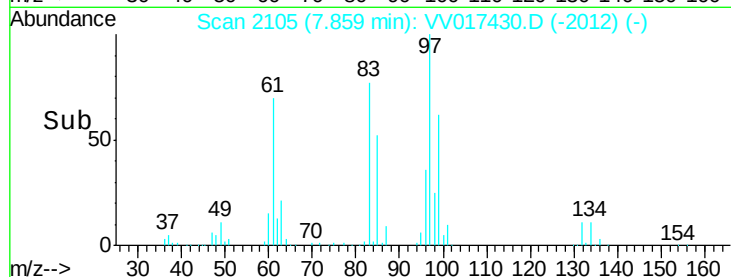
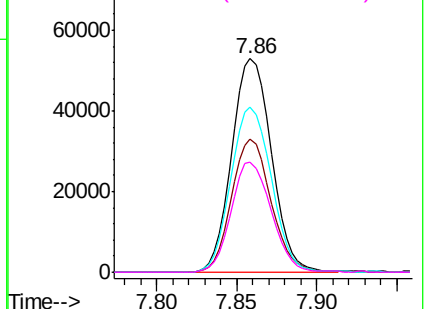
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

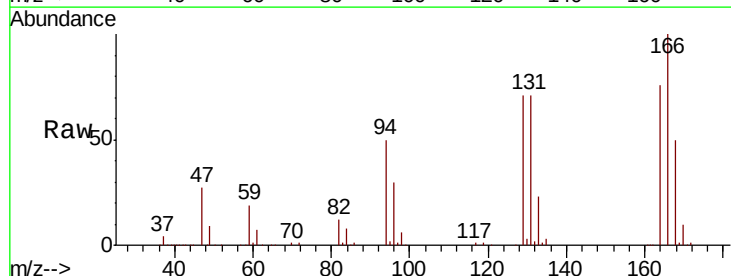
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
 Tetrachloroethene
 Concen: 46.445 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Tgt Ion:	164	Resp:	83009
Ion	Ratio	Lower	Upper
164	100		
129	92.7	66.6	123.8
131	92.9	65.5	121.7
166	131.3	93.9	174.5



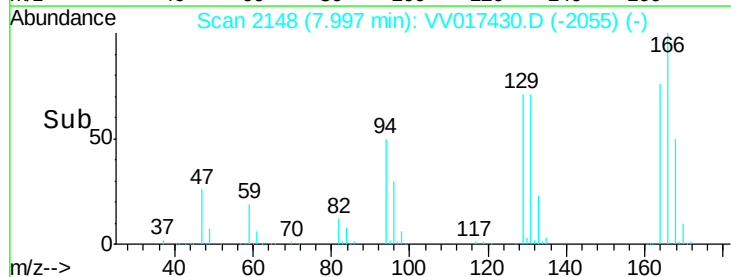
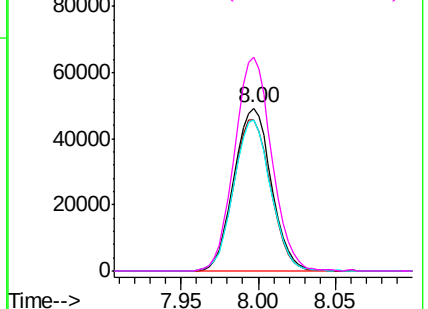
Abundance

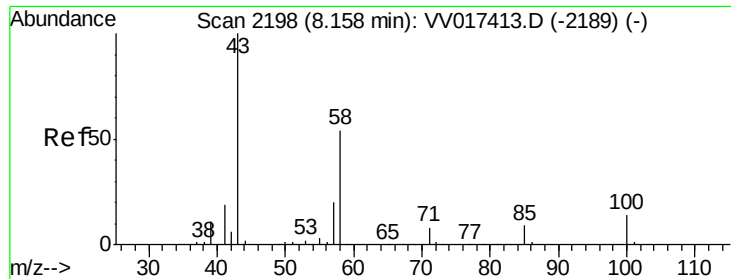
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

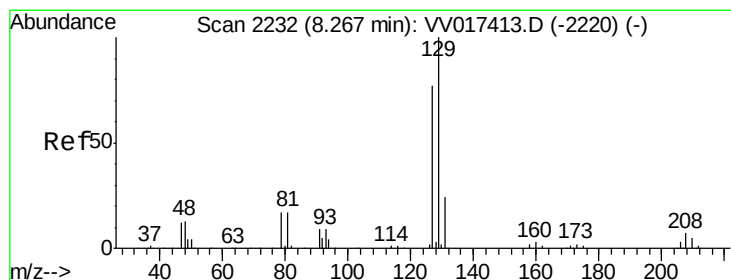
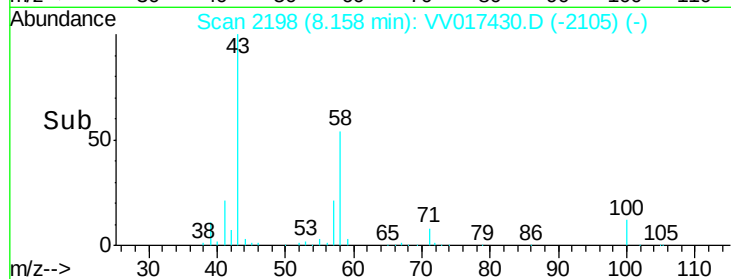
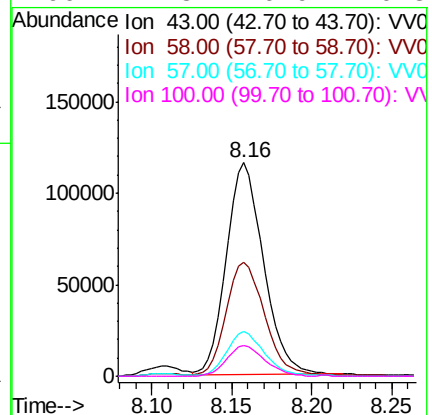
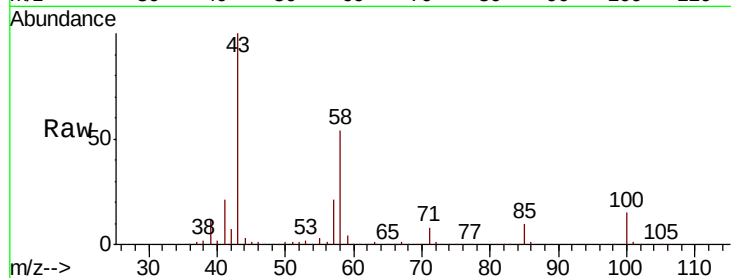




#48
2-Hexanone
Concen: 94.285 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

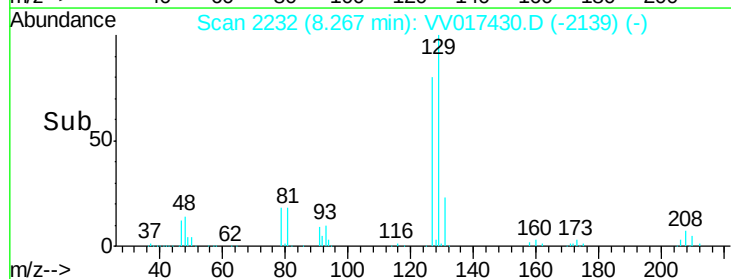
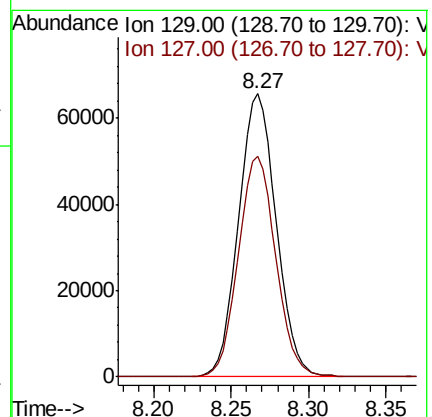
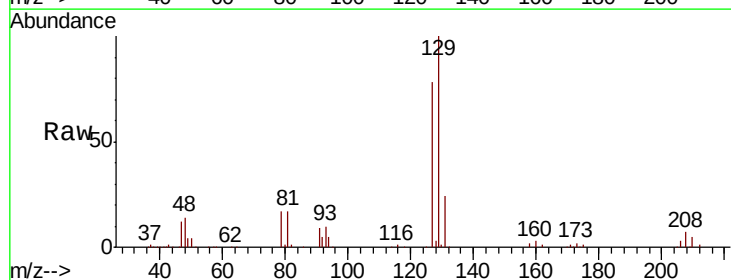
Instrument :
MSVOA_V
ClientSampleId :

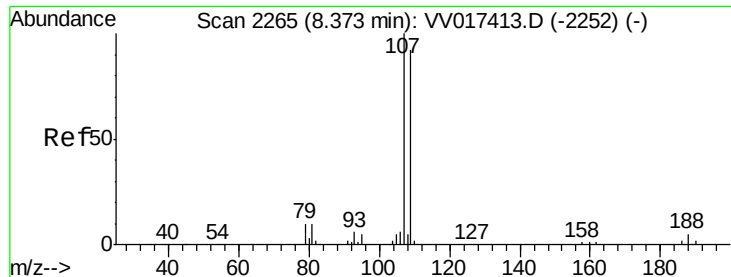
Tot Ion: 43 Resp: 185067
Ion Ratio Lower Upper
43 100
58 55.9 42.6 64.0
57 21.0 16.2 24.4
100 14.8 10.9 16.3



#49
Dibromochloromethane
Concen: 46.646 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

Tgt Ion: 129 Resp: 110711
Ion Ratio Lower Upper
129 100
127 77.9 54.6 101.4

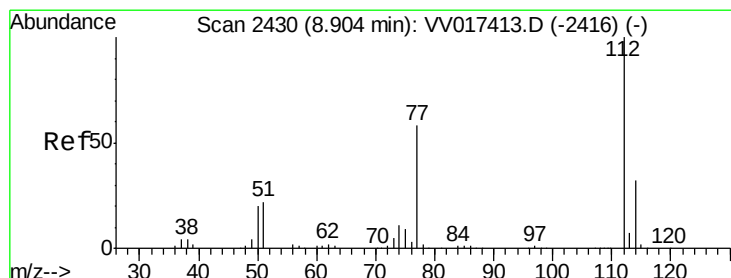
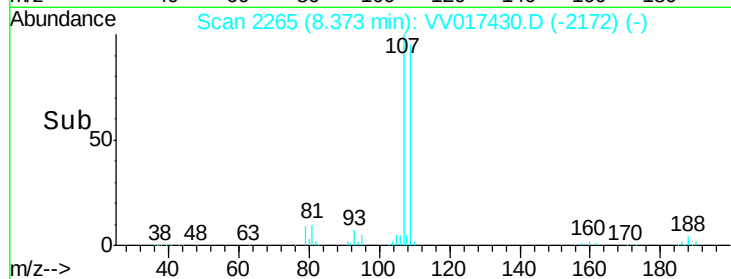
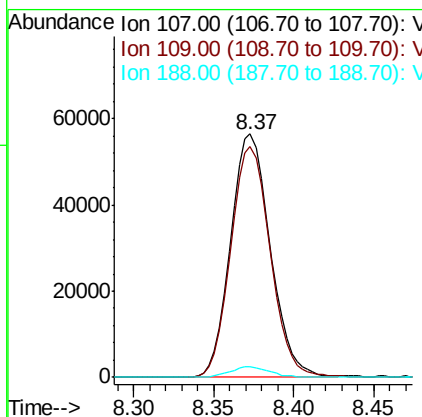
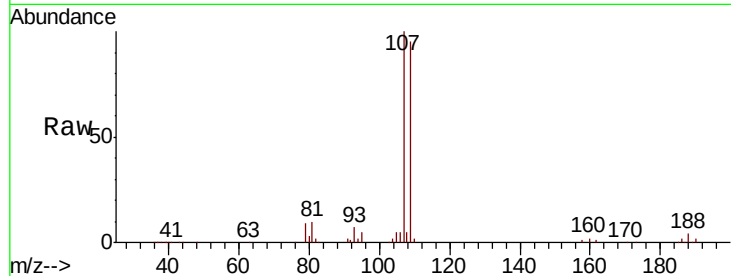




#50
 1,2-Dibromoethane
 Concen: 46.912 ug/L
 RT: 8.37 min Scan# 2265
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

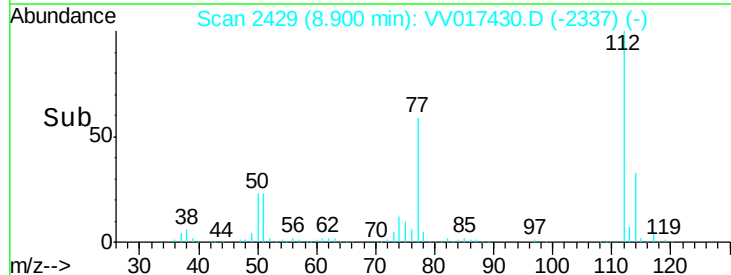
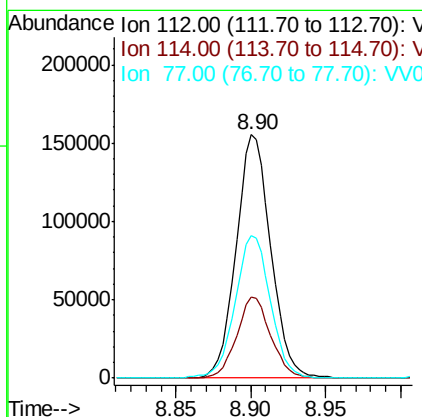
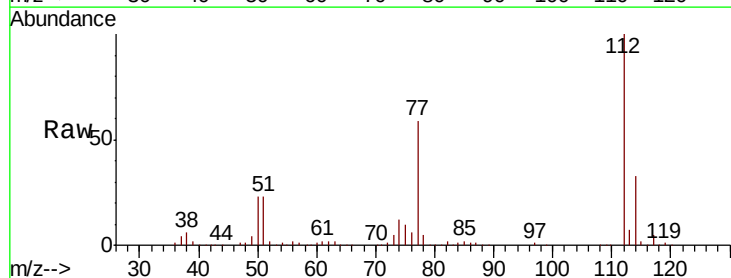
Instrument :
 MSVOA_V
 ClientSampleId :

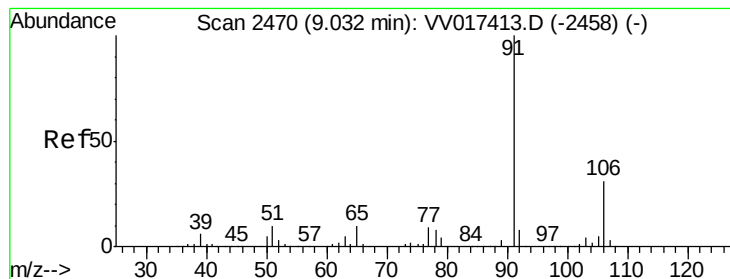
Tot Ion	107	Resp	95530
Ion Ratio	Lower	Upper	
107	100		
109	94.9	67.3	125.1
188	4.4	3.5	5.3



#51
 Chlorobenzene
 Concen: 45.995 ug/L
 RT: 8.90 min Scan# 2429
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Tgt Ion	112	Resp	249758
Ion Ratio	Lower	Upper	
112	100		
114	33.2	22.7	42.1
77	58.7	46.7	70.1





#52

Ethylbenzene

Concen: 47.589 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

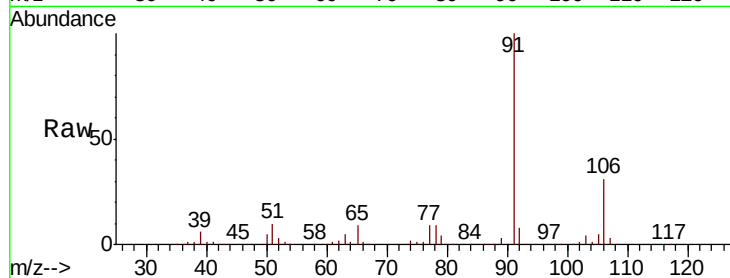
ClientSampleId :

Tot Ion: 91 Resp: 436184

Ion Ratio Lower Upper

91 100

106 30.5 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV017430.D (-2377) (-)

Ion 106.00 (105.70 to 106.70): VV017430.D (-2377) (-)

9.03

250000

200000

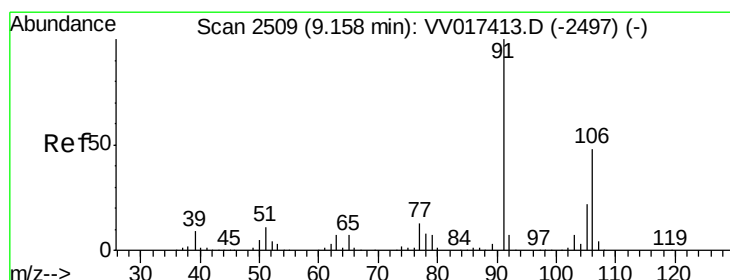
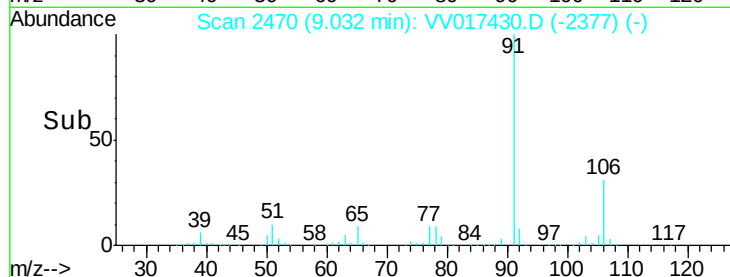
150000

100000

50000

0

Time--> 8.95 9.00 9.05 9.10



#53

m,p-Xylene

Concen: 48.438 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV017430.D

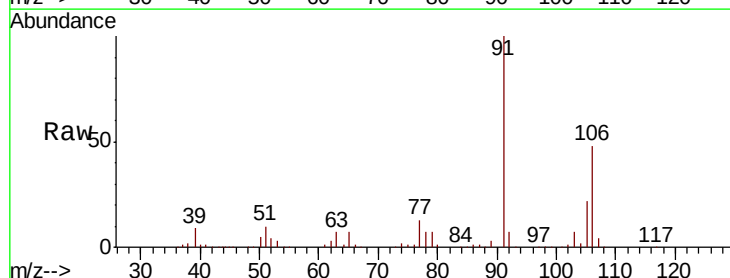
Acq: 10 Jul 2020 10:58

Tgt Ion: 106 Resp: 166215

Ion Ratio Lower Upper

106 100

91 210.1 146.4 271.8



Abundance Ion 106.00 (105.70 to 106.70): VV017430.D (-2416) (-)

Ion 91.00 (90.70 to 91.70): VV017430.D (-2416) (-)

9.16

250000

200000

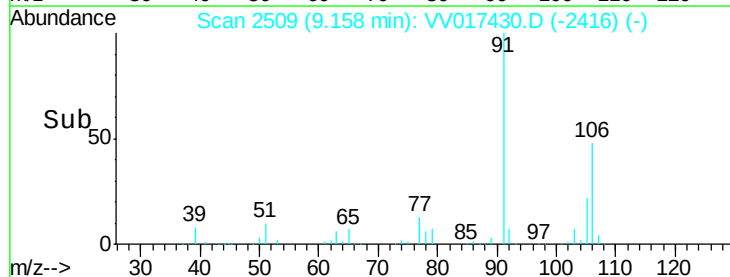
150000

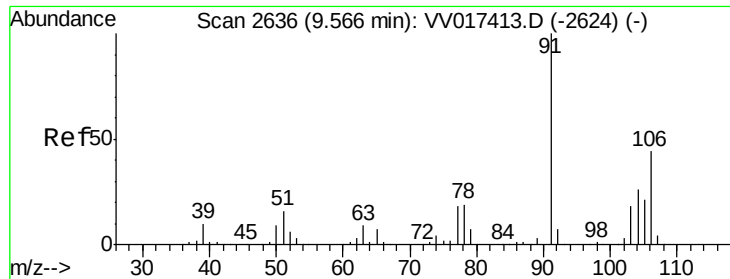
100000

50000

0

Time--> 9.10 9.15 9.20 9.25





#54

o-xylene

Concen: 49.605 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

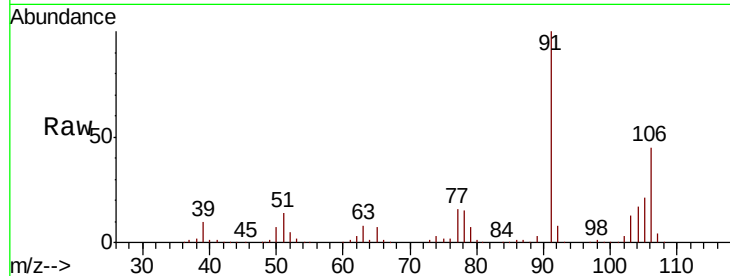
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 163500

Ion Ratio Lower Upper

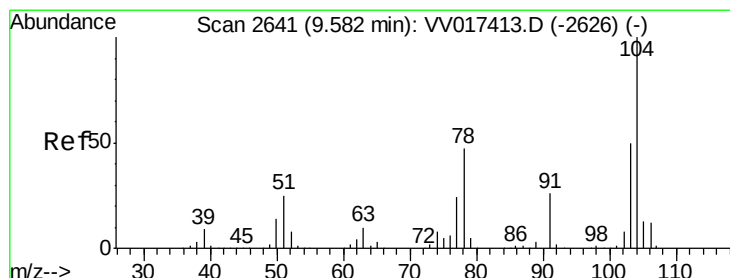
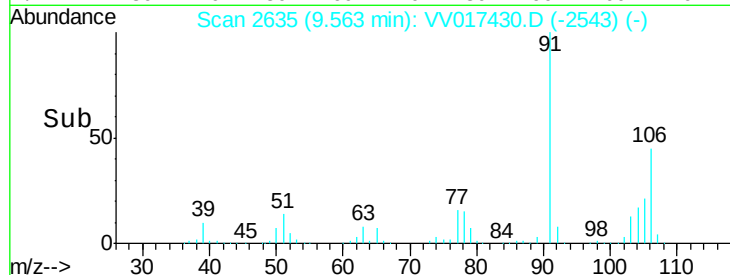
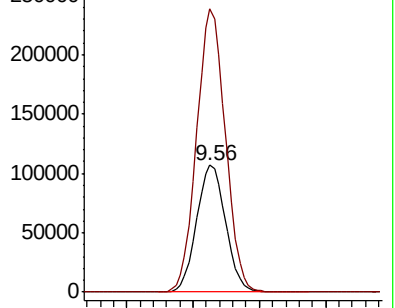
106 100

91 223.5 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 48.656 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV017430.D

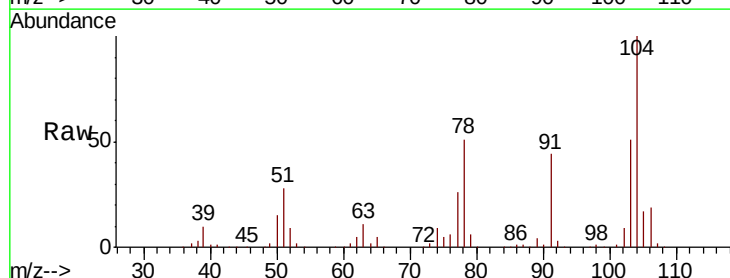
Acq: 10 Jul 2020 10:58

Tgt Ion:104 Resp: 278570

Ion Ratio Lower Upper

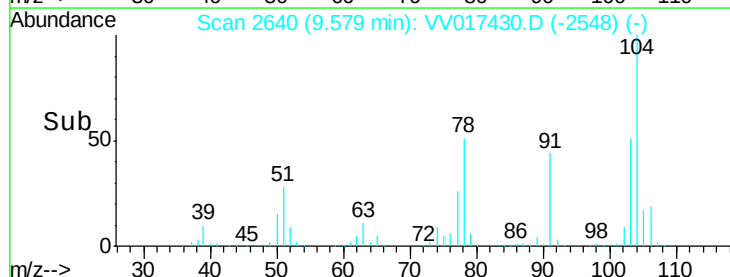
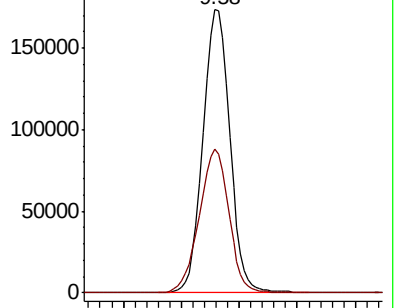
104 100

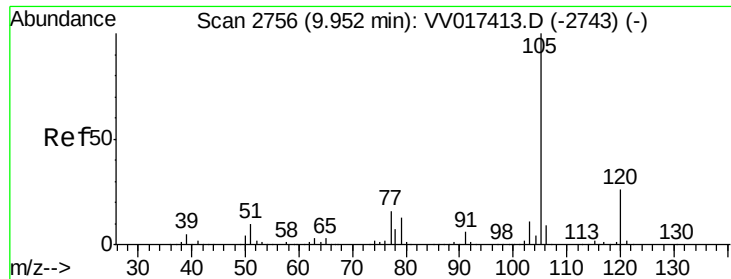
78 50.7 33.1 61.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

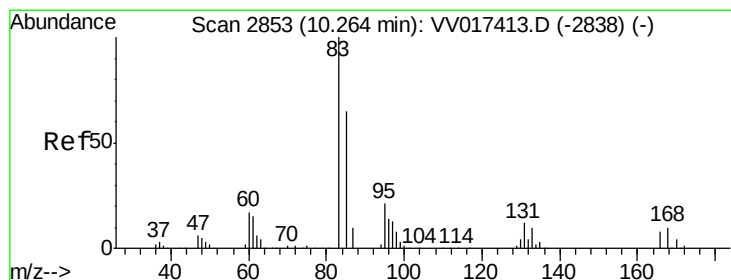
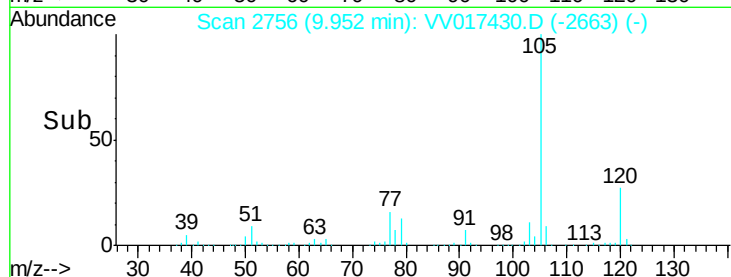
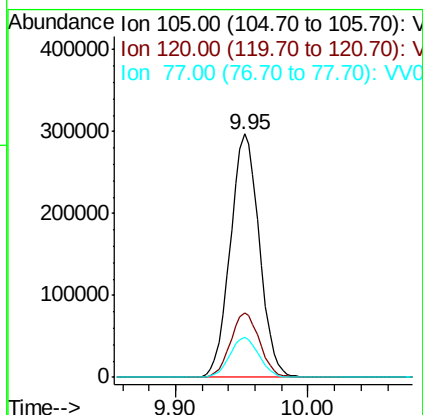
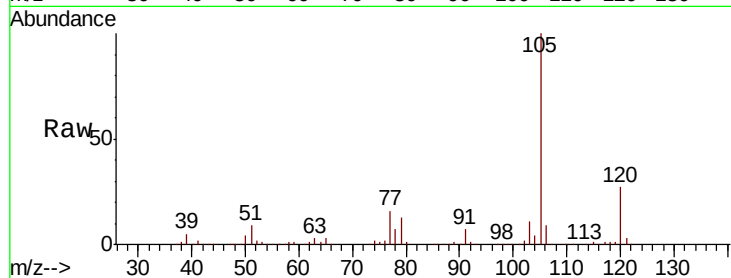




#56
Isopropylbenzene
Concen: 49.236 ug/L
RT: 9.95 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

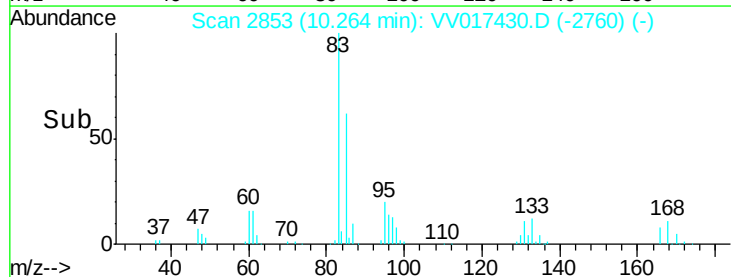
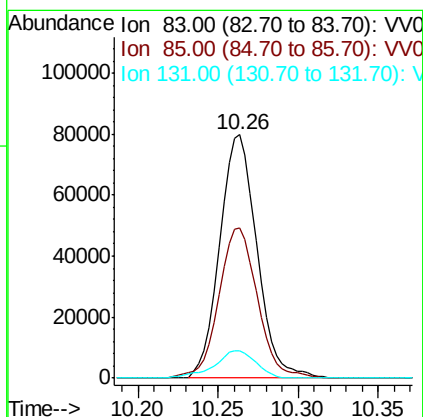
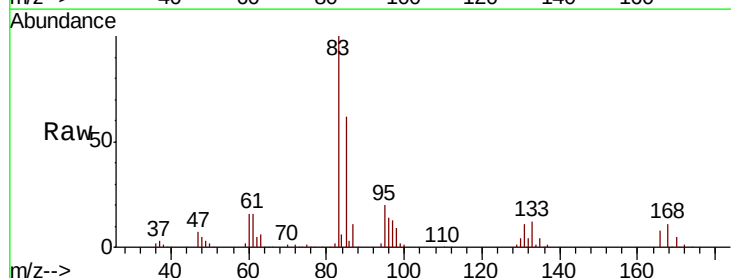
Instrument :
MSVOA_V
ClientSampleId :

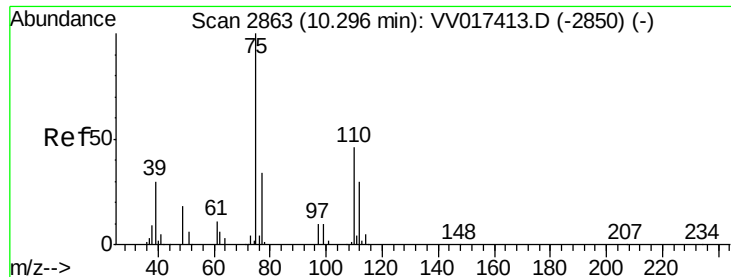
Tot Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.1	31.7
77	16.4	13.0	19.6



#58
1,1,2,2-Tetrachloroethane
Concen: 45.627 ug/L
RT: 10.26 min Scan# 2853
Delta R.T. -0.00 min
Lab File: VV017430.D
Acq: 10 Jul 2020 10:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.9	44.9	83.5
131	11.3	9.4	14.2





#59

1,2,3-Trichloropropane

Concen: 46.421 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

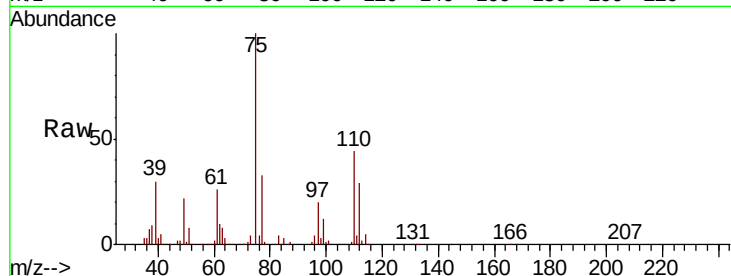
ClientSampleId :

Tot Ion: 75 Resp: 112798

Ion Ratio Lower Upper

75 100

77 32.5 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

10.30

80000

60000

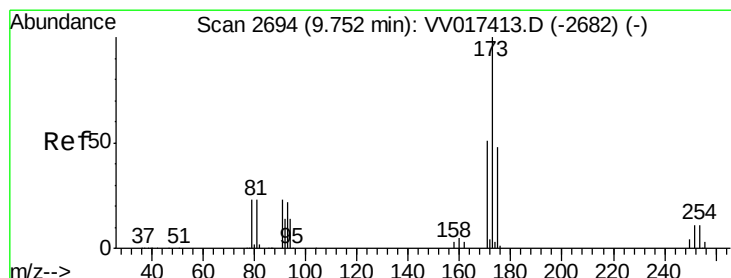
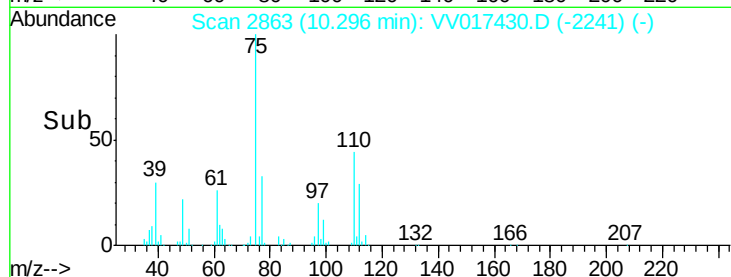
40000

20000

0

10.25 10.30 10.35

Time-->



#61

Bromoform

Concen: 45.999 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

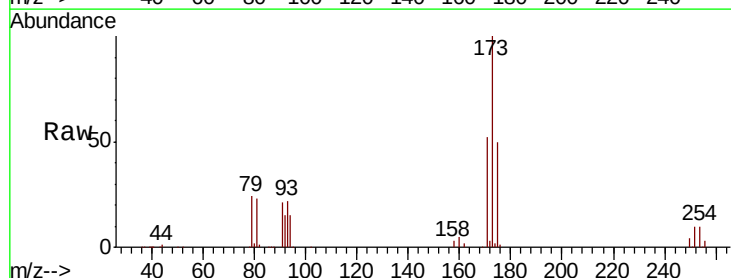
Tgt Ion:173 Resp: 83032

Ion Ratio Lower Upper

173 100

175 49.2 38.1 57.1

254 10.2 7.4 11.2



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

9.75

60000

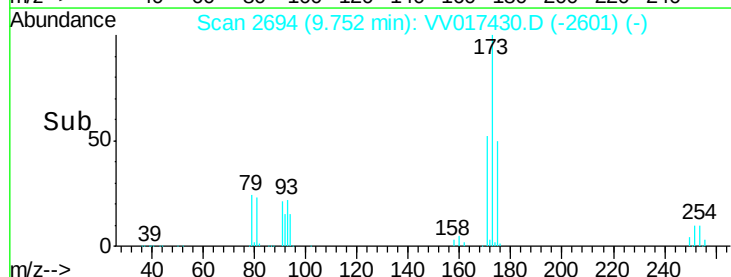
40000

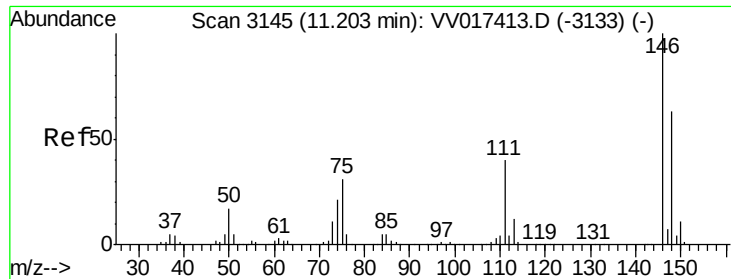
20000

0

9.70 9.75 9.80

Time-->

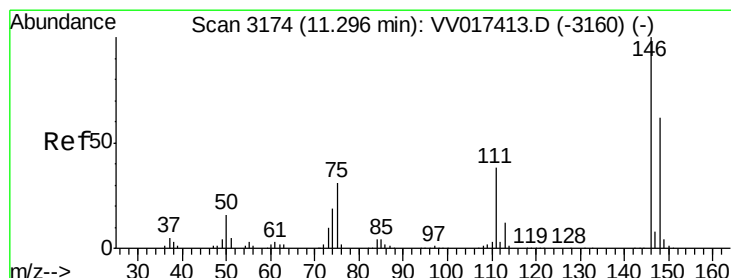
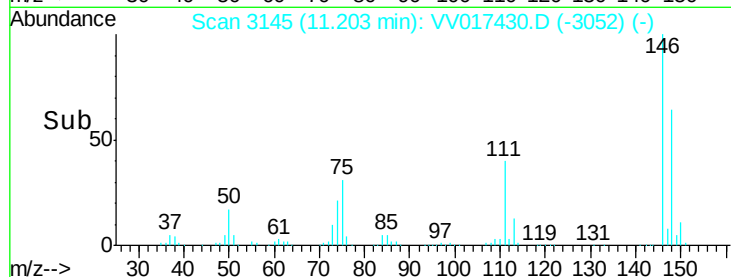
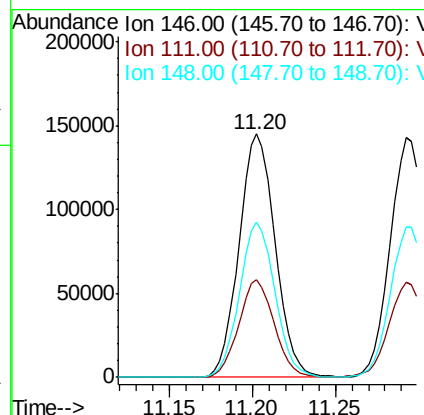
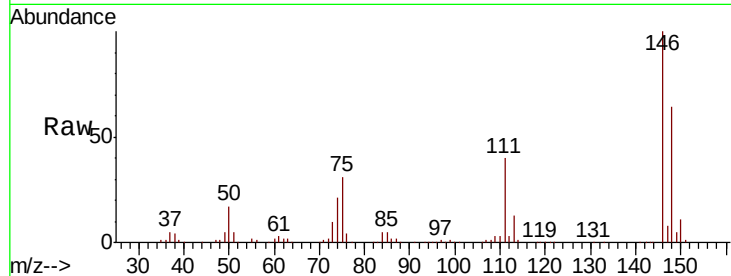




#62
 1,3-Dichlorobenzene
 Concen: 46.979 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

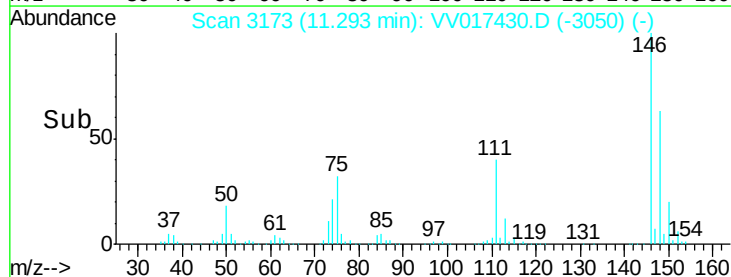
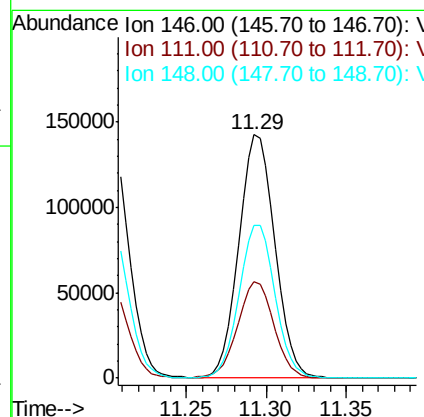
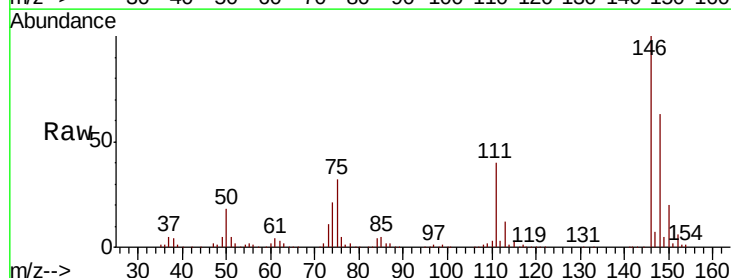
Instrument :
 MSVOA_V
 ClientSampleId :

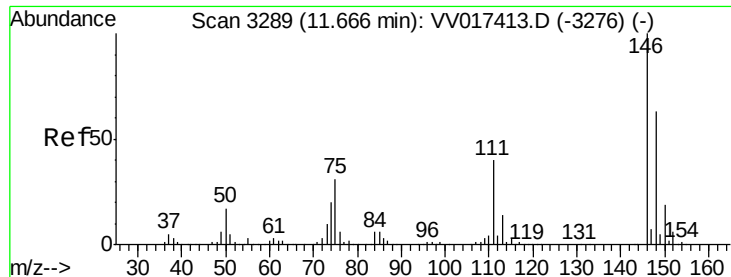
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	27.2	50.6
148	63.5	44.7	82.9



#63
 1,4-Dichlorobenzene
 Concen: 45.758 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	27.2	50.4
148	62.6	45.4	84.4





#65

1,2-Dichlorobenzene

Concen: 47.165 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

ClientSampleId :

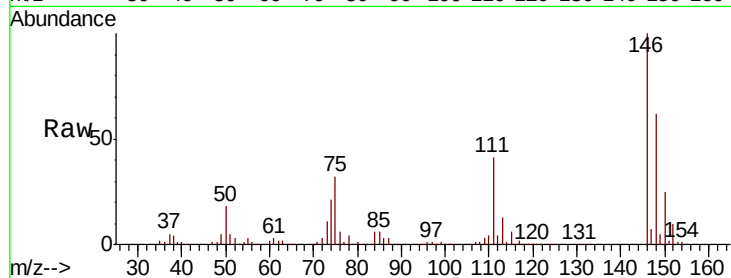
Tot Ion:146 Resp: 220168

Ion Ratio Lower Upper

146 100

111 41.2 33.5 50.3

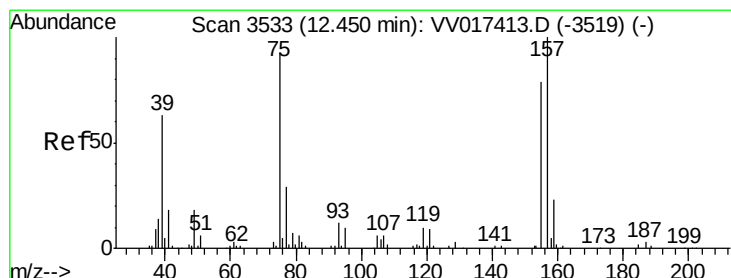
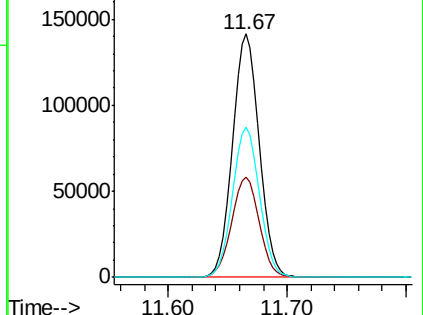
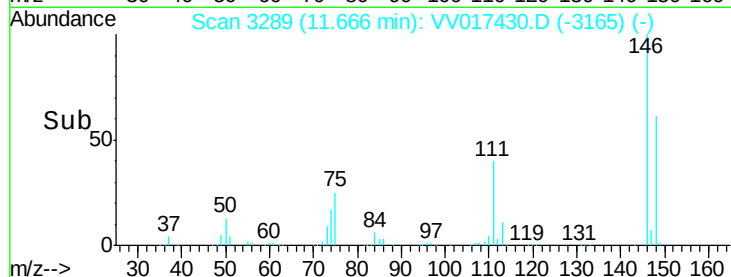
148 61.7 50.6 76.0



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



#66

1,2-Dibromo-3-chloropropane

Concen: 45.873 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

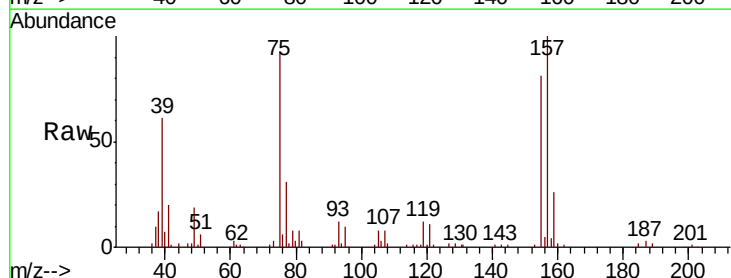
Tgt Ion: 75 Resp: 34844

Ion Ratio Lower Upper

75 100

155 87.1 63.4 95.2

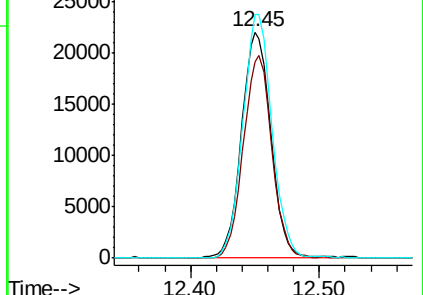
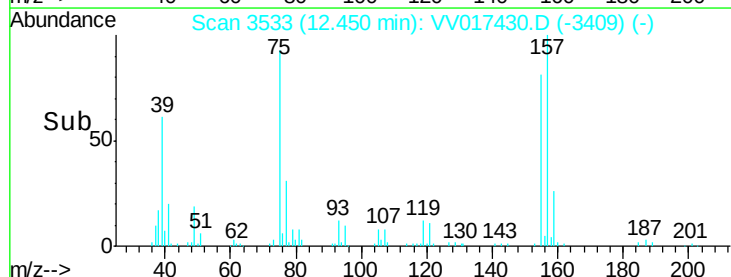
157 107.7 84.5 126.7

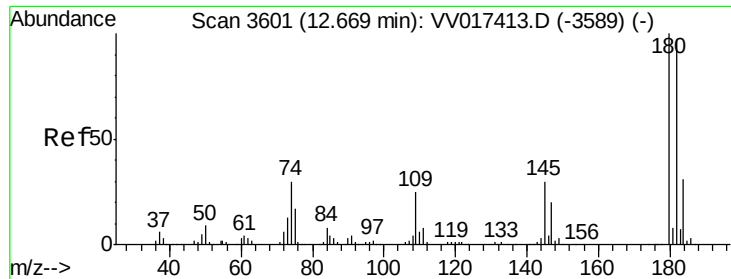


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

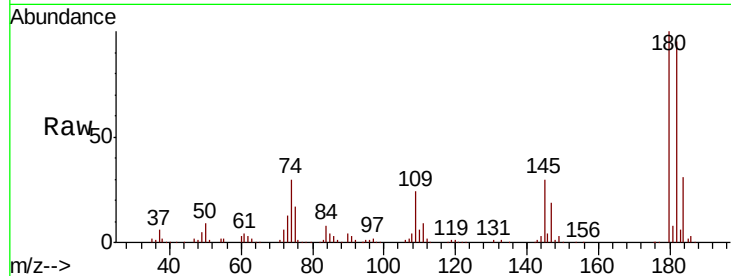




#67
 1,3,5-Trichlorobenzene
 Concen: 48.696 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.0	115.4
184	30.2	24.0	36.0
145	30.6	23.8	35.8

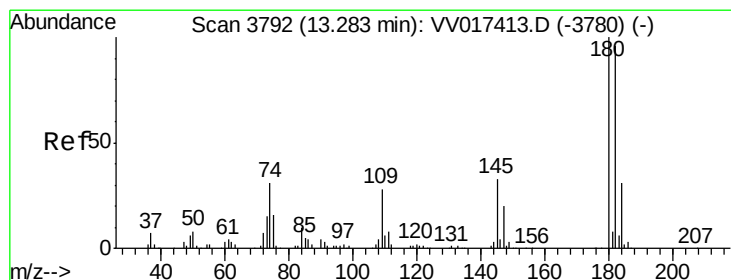
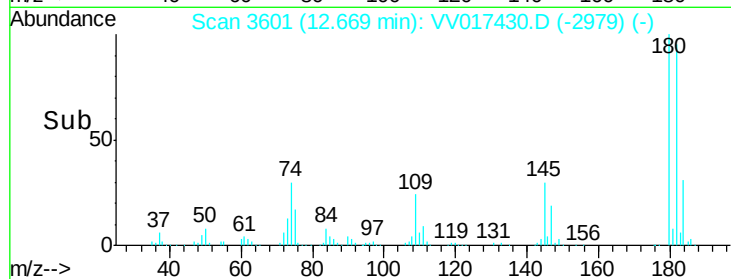
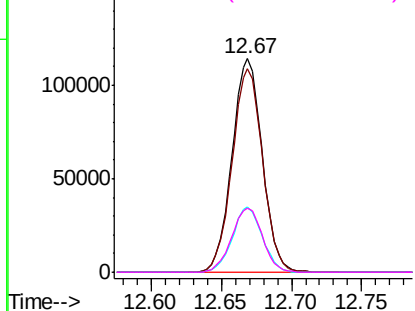


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

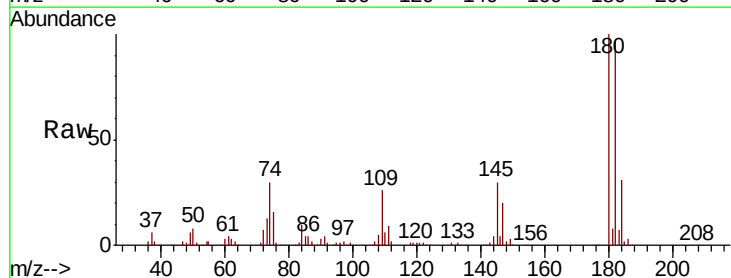
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 47.986 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV017430.D
 Acq: 10 Jul 2020 10:58

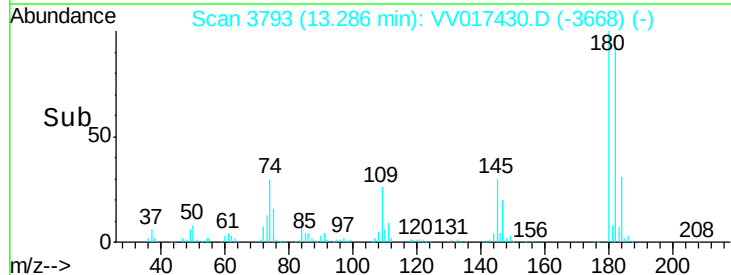
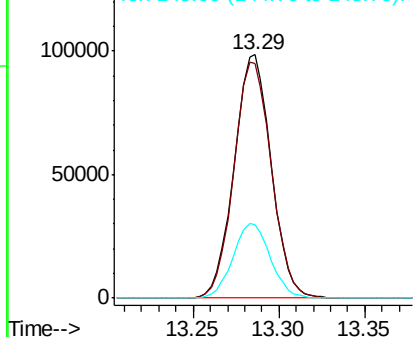
Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.1	76.0	114.0
145	30.9	24.6	36.8

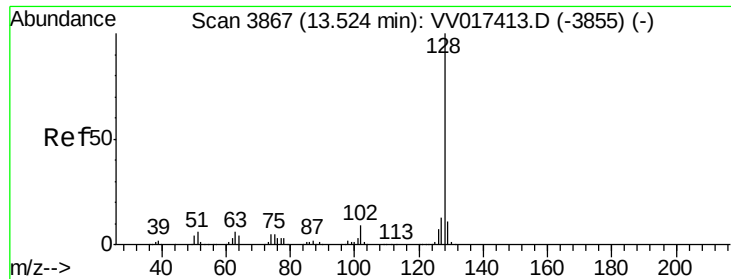


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 50.365 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

Instrument :

MSVOA_V

ClientSampleId :

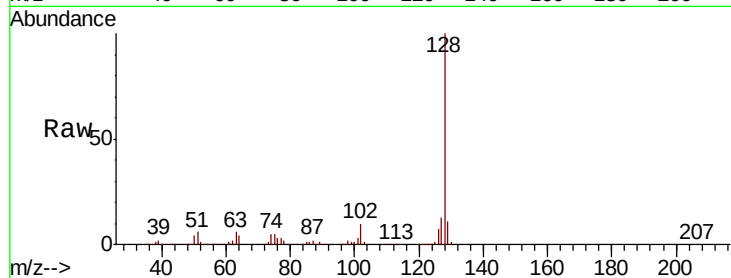
Tot Ion:128 Resp: 435064

Ion Ratio Lower Upper

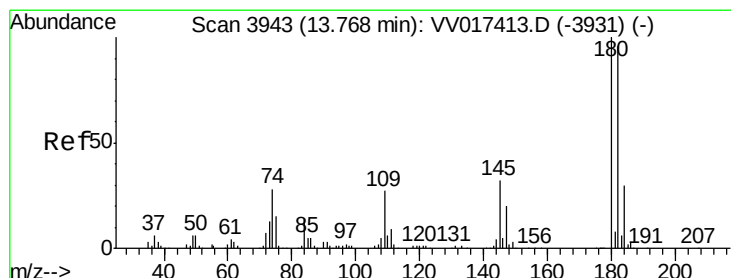
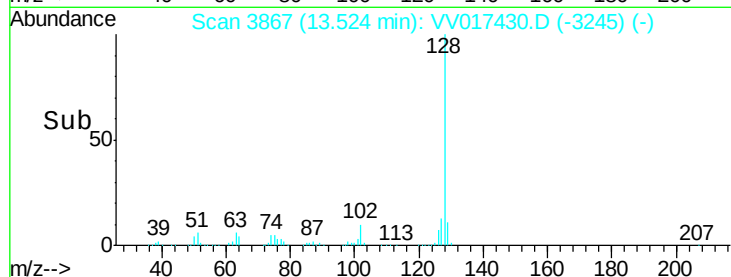
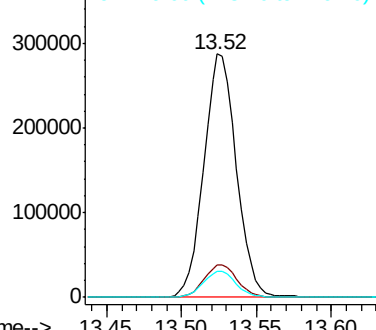
128 100

127 13.4 10.7 16.1

129 10.9 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



#70

1,2,3-Trichlorobenzene

Concen: 49.258 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VV017430.D

Acq: 10 Jul 2020 10:58

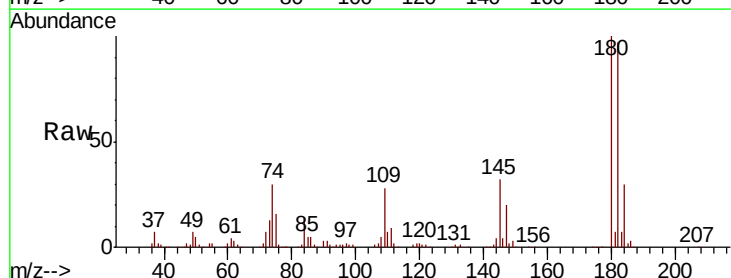
Tgt Ion:180 Resp: 154983

Ion Ratio Lower Upper

180 100

182 96.1 76.3 114.5

145 32.5 26.5 39.7



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

