

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060520\
 Data File : VU038562.D
 Acq On : 05 Jun 2020 10:20
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Quant Time: Jun 06 00:07:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jun 05 18:39:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	323264	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	315736	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	160847	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	96644	4.62	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.40%
7) Chloroethane-d5	1.93	69	80880	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.60%
11) 1,1-Dichloroethene-d2	2.59	63	205394	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.80%
20) 2-Butanone-d5	4.69	46	316785	49.84	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.68%
24) Chloroform-d	5.10	84	198841	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
26) 1,2-Dichloroethane-d4	5.74	65	110050	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
32) Benzene-d6	5.76	84	393857	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.00%
36) 1,2-Dichloropropane-d6	6.72	67	116617	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.92	98	356528	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
43) trans-1,3-Dichloropropene-	8.20	79	49982	4.79	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.80%
46) 2-Hexanone-d5	8.66	63	266145	51.70	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.40%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	100660	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	132783	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	113323	4.448	ug/L 96
3) Chloromethane	1.53	50	95421	4.078	ug/L 97
5) Vinyl chloride	1.62	62	107707	4.296	ug/L 97
6) Bromomethane	1.87	94	57548	4.728	ug/L 99
8) Chloroethane	1.95	64	66985	4.459	ug/L 99
9) Trichlorofluoromethane	2.16	101	163986	4.931	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	99641	5.087	ug/L 98
12) 1,1-Dichloroethene	2.60	96	91568	4.599	ug/L 91
13) Acetone	2.69	43	204846	49.249	ug/L 63
14) Carbon disulfide	2.82	76	263701	3.904	ug/L 100
15) Methyl Acetate	2.99	43	45396	4.455	ug/L 95
16) Methylene chloride	3.08	84	105489	4.682	ug/L 98
17) Methyl tert-butyl Ether	3.40	73	257401	4.931	ug/L 99
18) trans-1,2-Dichloroethene	3.38	96	98563	4.594	ug/L 99
19) 1,1-Dichloroethane	3.91	63	188467	4.908	ug/L 100
21) 2-Butanone	4.77	43	343341	49.077	ug/L 97
22) cis-1,2-Dichloroethene	4.71	96	108867	4.712	ug/L 99

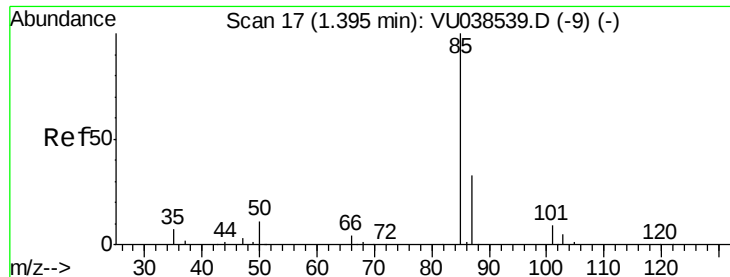
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060520\
 Data File : VU038562.D
 Acq On : 05 Jun 2020 10:20
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Quant Time: Jun 06 00:07:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jun 05 18:39:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	49511	4.762	ug/L	97
25) Chloroform	5.13	83	195663	5.017	ug/L	99
27) 1,2-Dichloroethane	5.83	62	134050	4.882	ug/L	100
29) 1,1,1-Trichloroethane	5.35	97	171415	5.131	ug/L	99
30) Cyclohexane	5.42	56	157258	4.489	ug/L	100
31) Carbon tetrachloride	5.56	117	141635	5.092	ug/L	99
33) Benzene	5.81	78	423017	4.805	ug/L	100
34) Trichloroethene	6.57	95	109469	4.790	ug/L	99
35) Methylcyclohexane	6.79	83	162572	4.595	ug/L	97
37) 1,2-Dichloropropane	6.82	63	106695	4.816	ug/L	99
38) Bromodichloromethane	7.13	83	142321	5.173	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	159895	4.883	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	762761	48.140	ug/L	99
42) Toluene	8.00	91	445566	4.825	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	143231	4.953	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	83318	4.985	ug/L	97
47) Tetrachloroethene	8.57	164	79762	4.804	ug/L	98
48) 2-Hexanone	8.71	43	578083	48.176	ug/L	100
49) Dibromochloromethane	8.83	129	94535	5.240	ug/L	99
50) 1,2-Dibromoethane	8.95	107	77875	4.866	ug/L	100
51) Chlorobenzene	9.47	112	287023	4.819	ug/L	98
52) Ethylbenzene	9.59	91	494613	4.814	ug/L	99
53) m,p-Xylene	9.71	106	195902	4.958	ug/L	100
54) o-Xylene	10.12	106	187487	4.943	ug/L	99
55) Styrene	10.13	104	323486	5.024	ug/L	99
56) Isopropylbenzene	10.50	105	497812	4.986	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	101497	4.778	ug/L	96
59) 1,2,3-Trichloropropane	10.84	75	80295	4.856	ug/L	97
61) Bromoform	10.31	173	52467	5.236	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	237195	5.019	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	236655	4.938	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	223827	4.988	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	19235	5.294	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	176943	5.018	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	156791	4.804	ug/L	100
69) Naphthalene	14.12	128	310168	4.776	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	146924	4.948	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 4.448 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

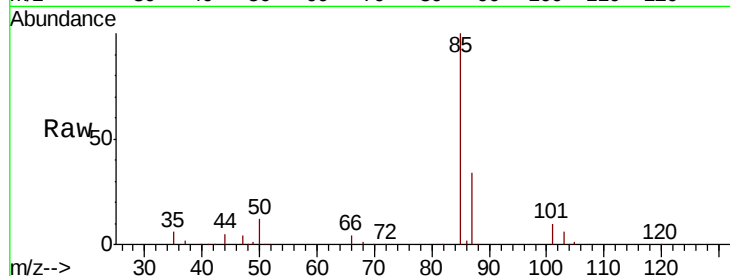
VSTD00511

Tot Ion: 85 Resp: 113323

Ion Ratio Lower Upper

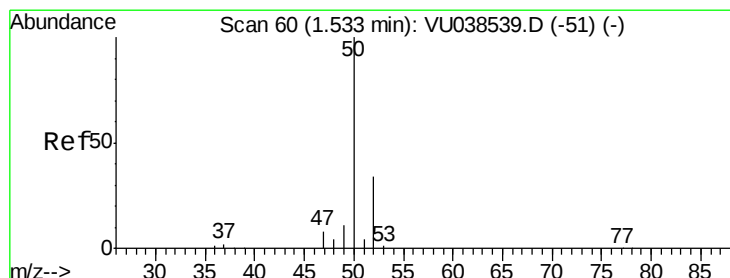
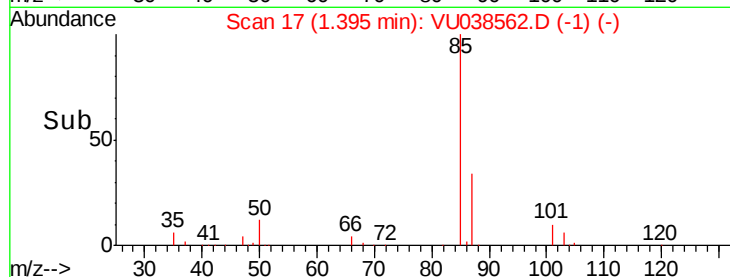
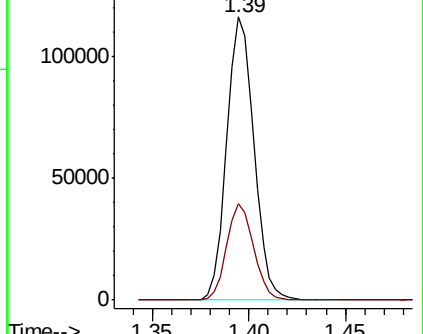
85 100

87 33.7 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.078 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038562.D

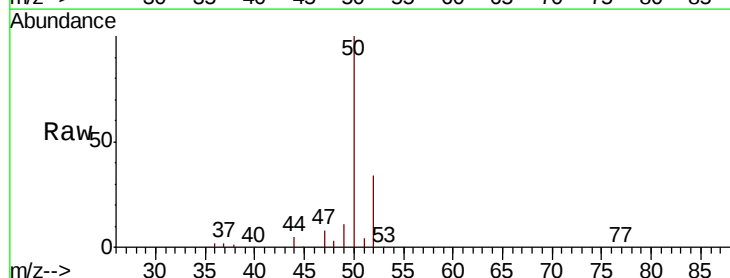
Acq: 05 Jun 2020 10:20

Tgt Ion: 50 Resp: 95421

Ion Ratio Lower Upper

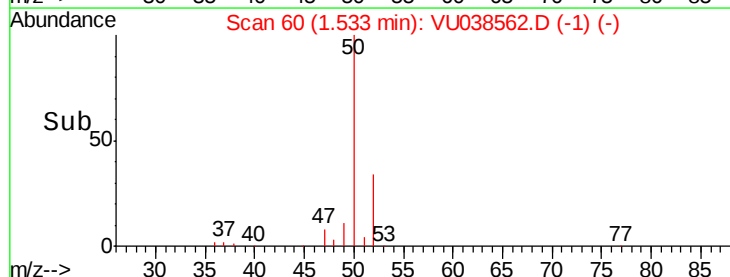
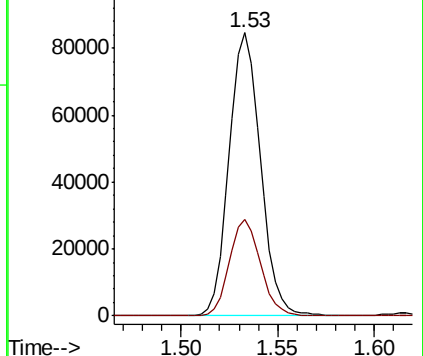
50 100

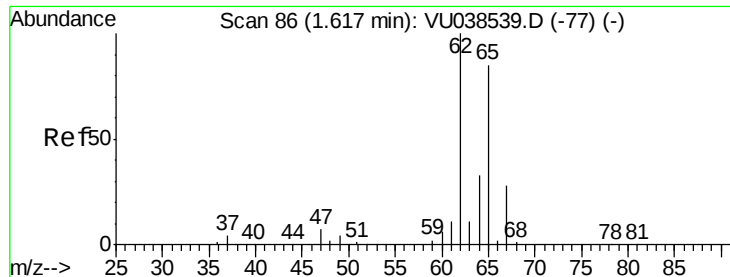
52 34.3 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.296 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

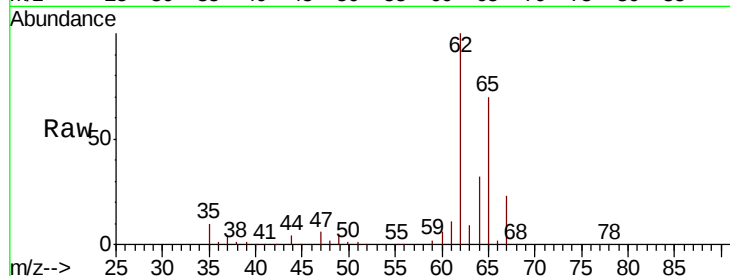
VSTD00511

Tot Ion: 62 Resp: 107707

Ion Ratio Lower Upper

62 100

64 31.9 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU038539.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU038539.D (-77) (-)

1.62

100000

80000

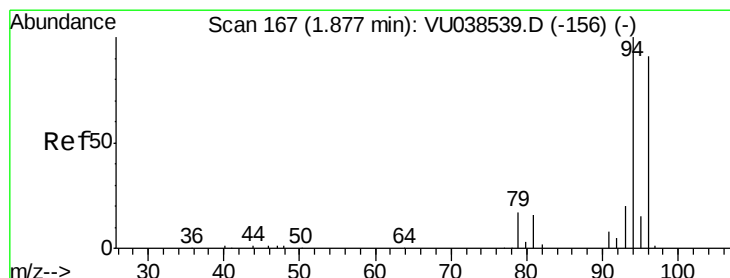
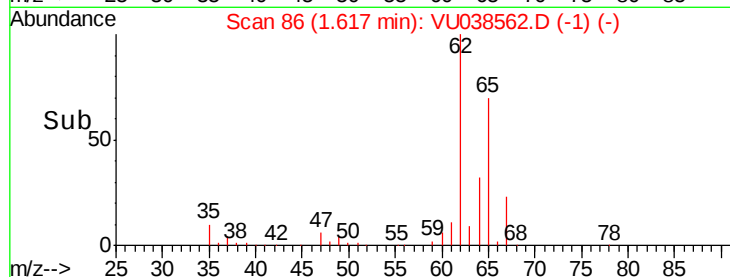
60000

40000

20000

0

Time--> 1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 4.728 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU038562.D

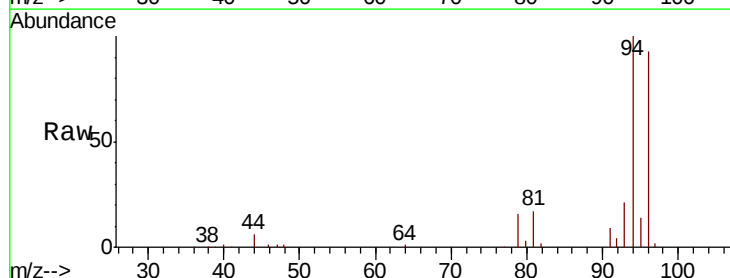
Acq: 05 Jun 2020 10:20

Tgt Ion: 94 Resp: 57548

Ion Ratio Lower Upper

94 100

96 93.0 65.5 121.6



Abundance Ion 94.00 (93.70 to 94.70): VU038539.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU038539.D (-156) (-)

1.87

50000

40000

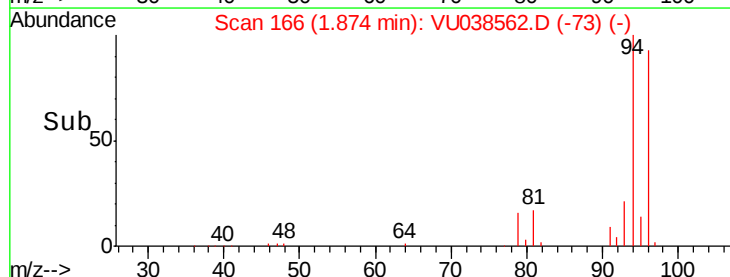
30000

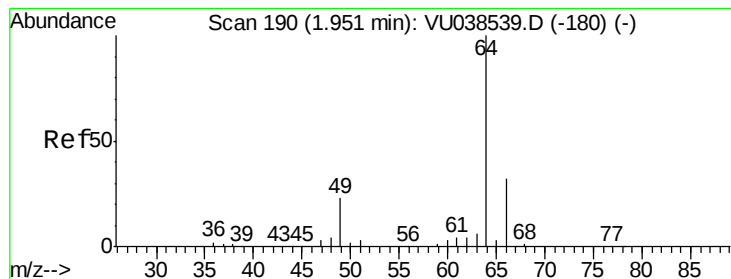
20000

10000

0

Time--> 1.80 1.85 1.90 1.95





#8

Chloroethane

Concen: 4.459 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

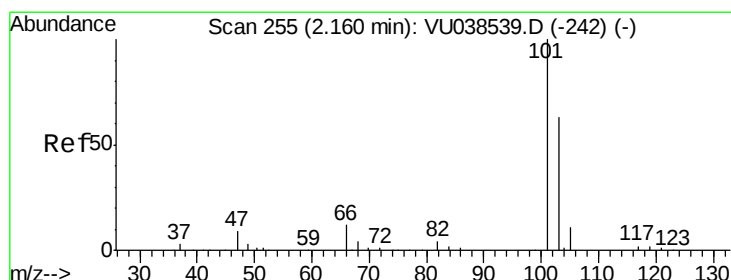
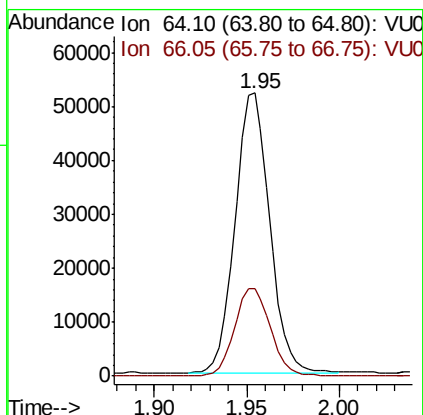
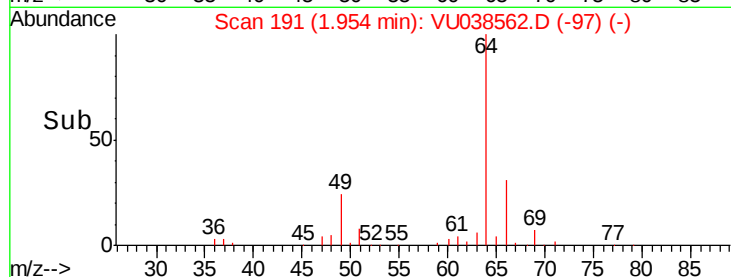
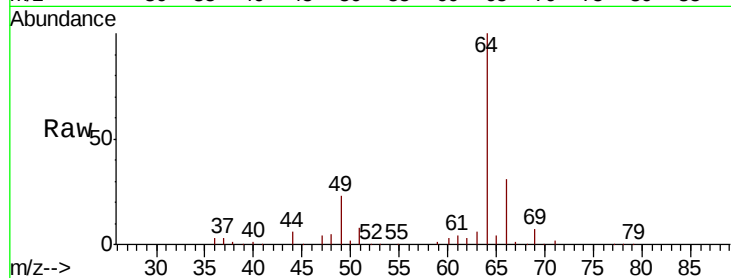
VSTD00511

Tot Ion: 64 Resp: 66985

Ion Ratio Lower Upper

64 100

66 31.0 21.5 39.9



#9

Trichlorofluoromethane

Concen: 4.931 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU038562.D

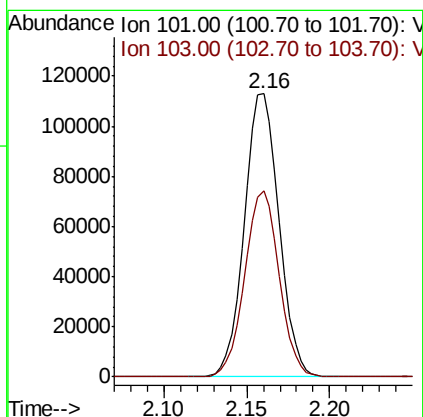
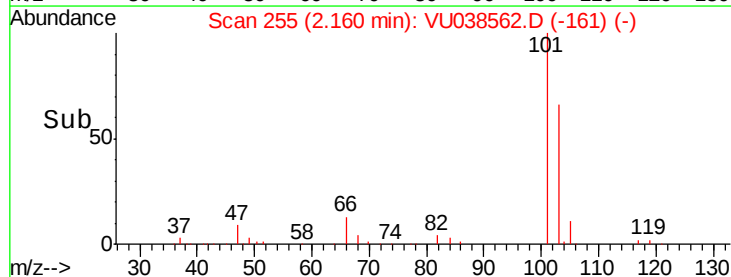
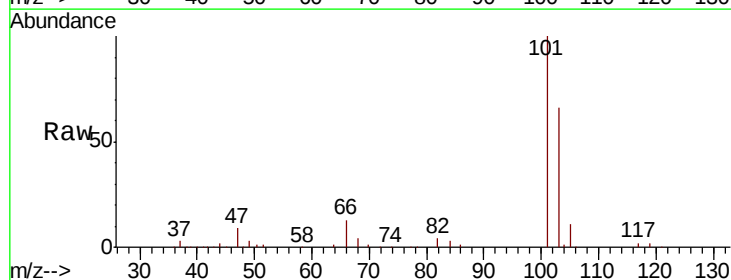
Acq: 05 Jun 2020 10:20

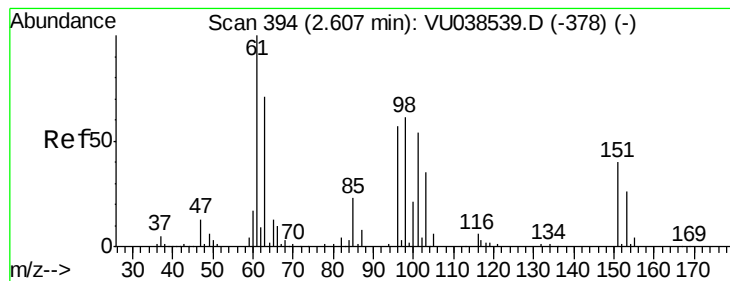
Tgt Ion: 101 Resp: 163986

Ion Ratio Lower Upper

101 100

103 65.2 51.1 76.7





#10

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

Concen: 5.087 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

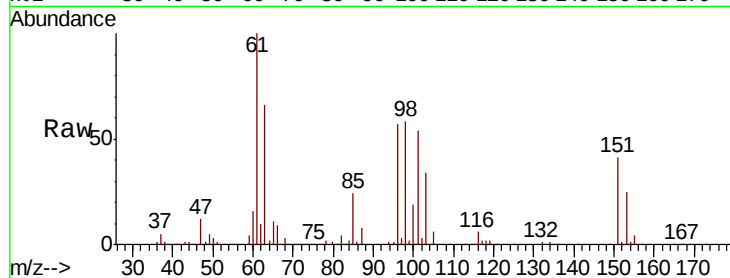
Tot Ion:101 Resp: 99641

Ion Ratio Lower Upper

101 100

85 42.7 34.0 51.0

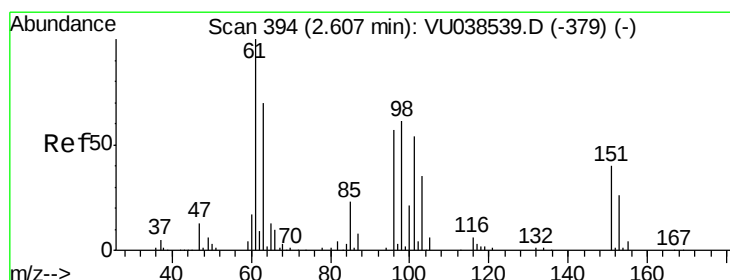
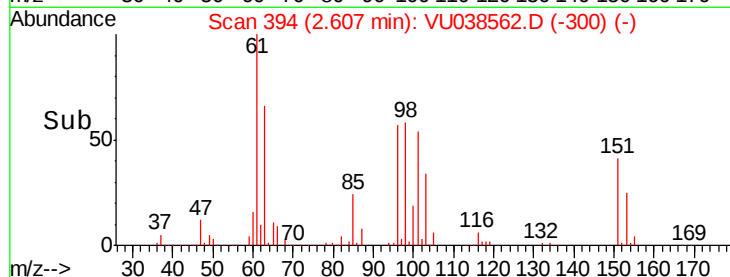
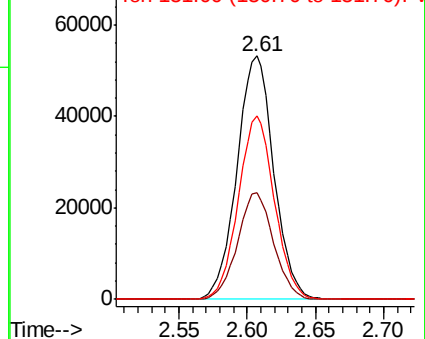
151 73.7 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.599 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

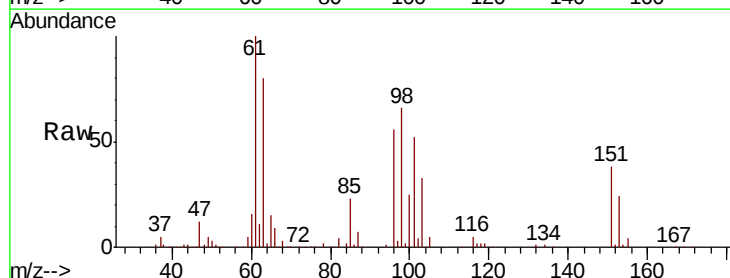
Tgt Ion: 96 Resp: 91568

Ion Ratio Lower Upper

96 100

61 180.1 119.9 222.7

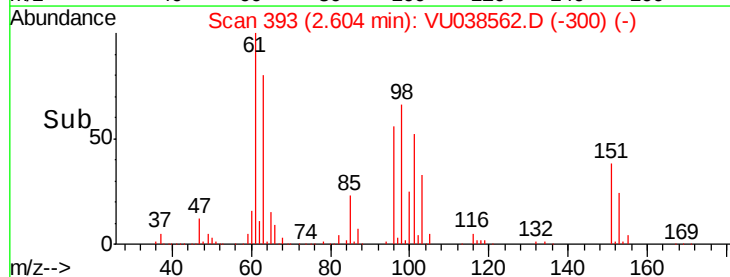
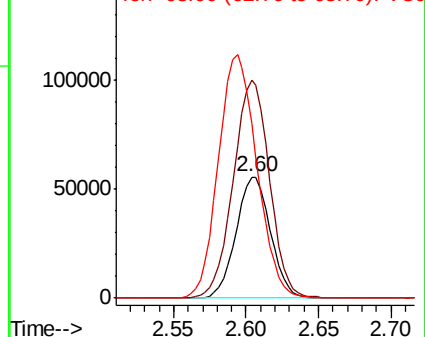
63 144.1 89.9 167.0

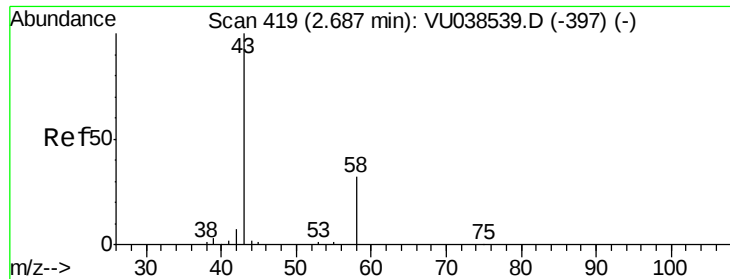


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.249 ug/L

RT: 2.69 min Scan# 420

Delta R.T. -0.01 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

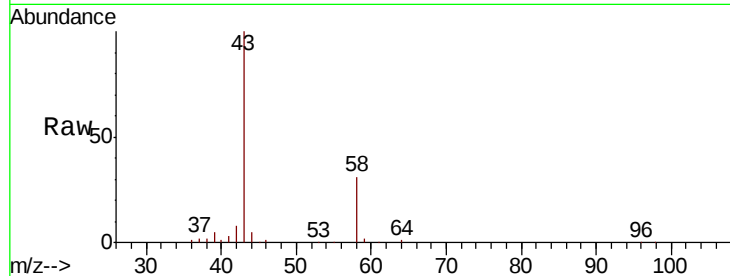
VSTD00511

Tot Ion: 43 Resp: 204846

Ion Ratio Lower Upper

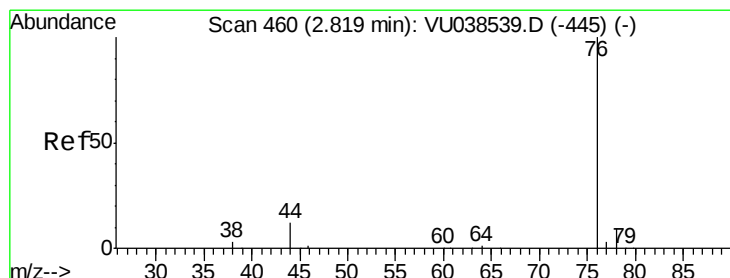
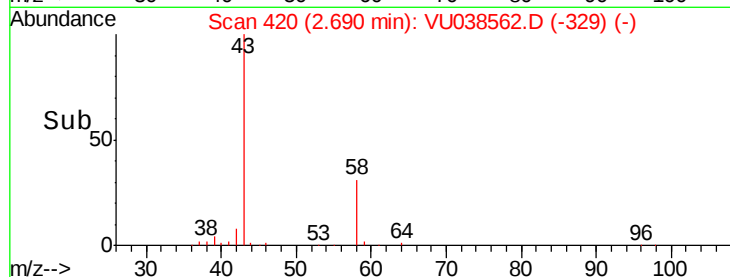
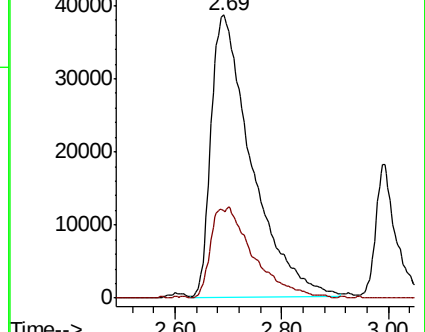
43 100

58 11.7 0.0 65.6



Abundance Ion 43.05 (42.75 to 43.75): VU038539.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU038539.D (-397) (-)



#14

Carbon disulfide

Concen: 3.904 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU038562.D

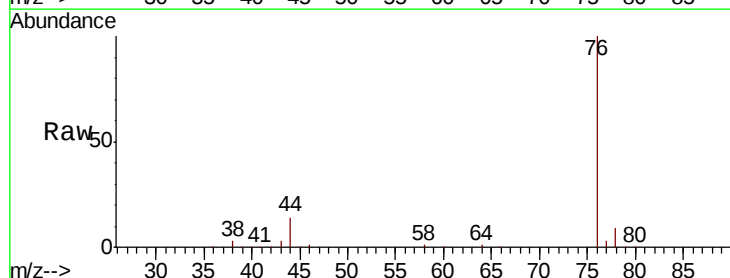
Acq: 05 Jun 2020 10:20

Tgt Ion: 76 Resp: 263701

Ion Ratio Lower Upper

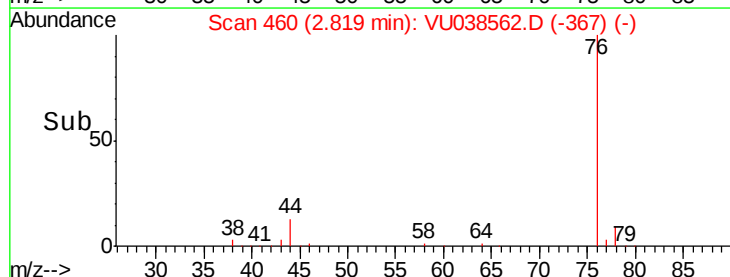
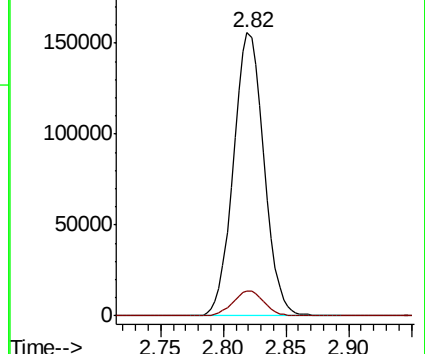
76 100

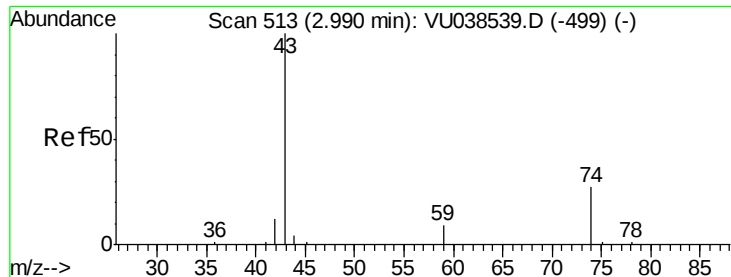
78 9.0 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU038539.D (-445) (-)

Ion 78.00 (77.70 to 78.70): VU038539.D (-445) (-)





#15

Methyl Acetate

Concen: 4.455 ug/L

RT: 2.99 min Scan# 513

Delta R.T. -0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

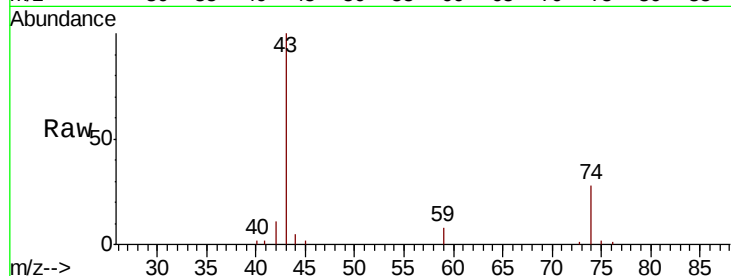
VSTD00511

Tot Ion: 43 Resp: 45396

Ion Ratio Lower Upper

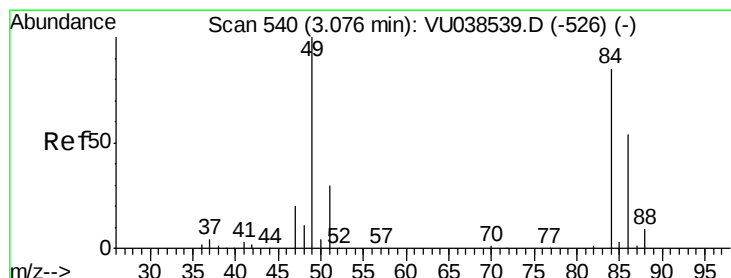
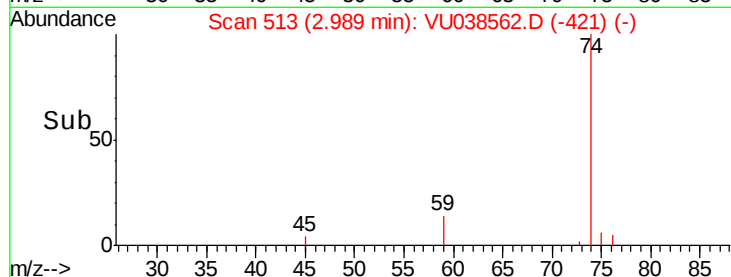
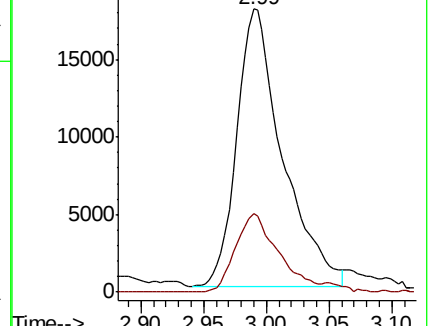
43 100

74 26.3 19.2 28.8



Abundance Ion 43.05 (42.75 to 43.75): VU038539.D (-499) (-)

Ion 74.05 (73.75 to 74.75): VU038539.D (-499) (-)



#16

Methylene chloride

Concen: 4.682 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

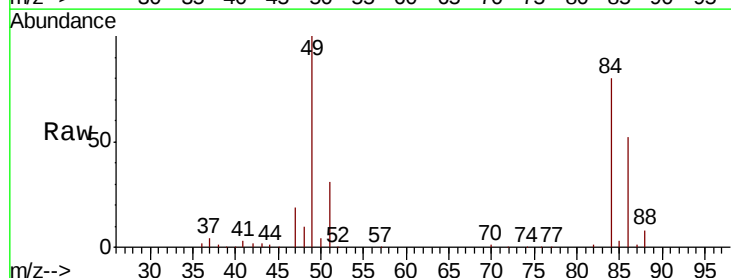
Tgt Ion: 84 Resp: 105489

Ion Ratio Lower Upper

84 100

86 65.5 45.0 83.6

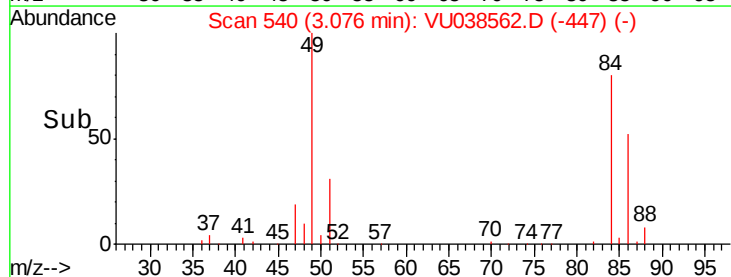
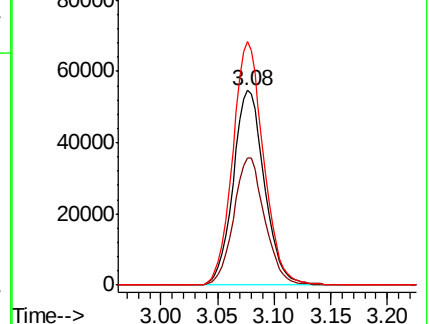
49 125.0 85.5 158.9

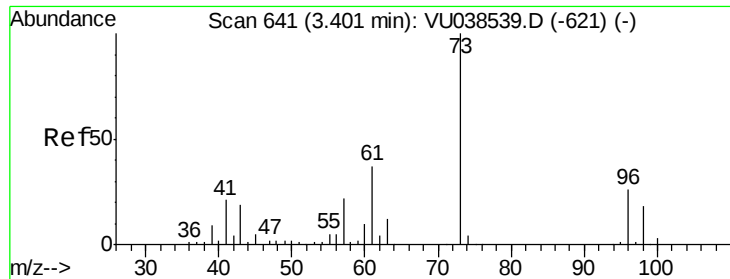


Abundance Ion 84.05 (83.75 to 84.75): VU038539.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU038539.D (-526) (-)

Ion 49.10 (48.80 to 49.80): VU038539.D (-526) (-)

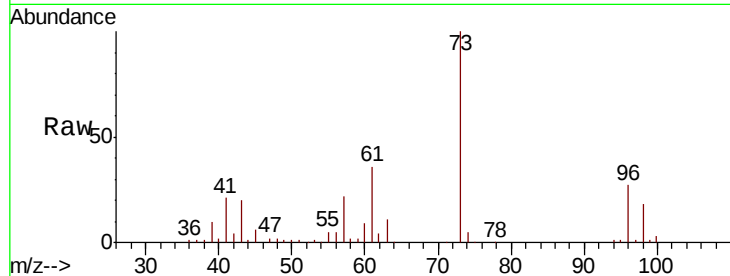




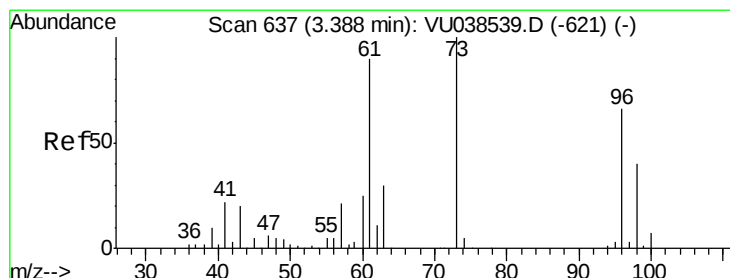
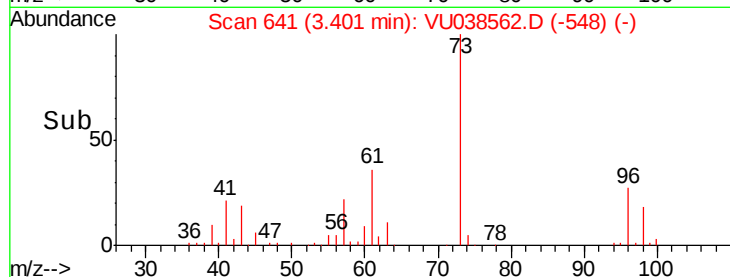
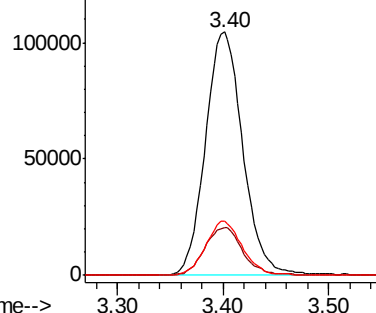
#17
Methvl tert-butvl Ether
Concen: 4.931 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU038562.D
Acq: 05 Jun 2020 10:20

Instrument :
MSVOA_U
ClientSampled :
VSTD00511

Tot Ion: 73 Resp: 257401
Ion Ratio Lower Upper
73 100
43 19.8 15.5 23.3
57 21.9 17.8 26.6

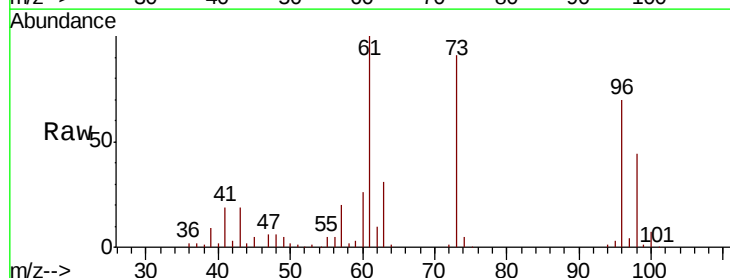


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

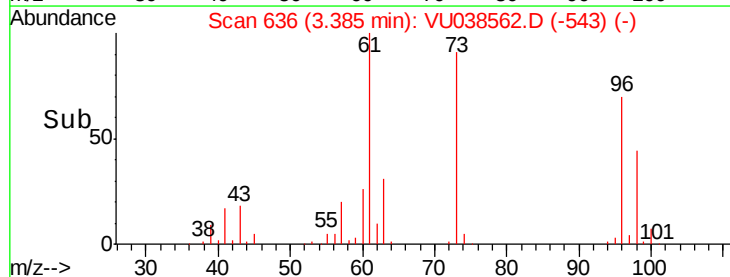
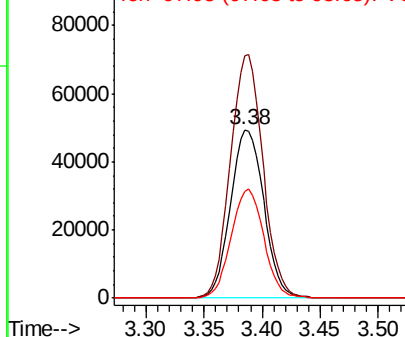


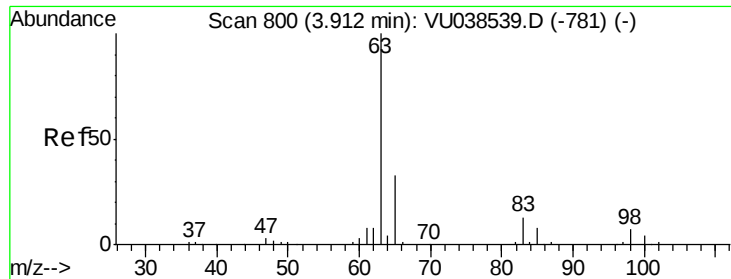
#18
trans-1,2-Dichloroethene
Concen: 4.594 ug/L
RT: 3.38 min Scan# 636
Delta R.T. 0.00 min
Lab File: VU038562.D
Acq: 05 Jun 2020 10:20

Tgt Ion: 96 Resp: 98563
Ion Ratio Lower Upper
96 100
61 143.8 100.2 186.0
98 63.5 42.8 79.4



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

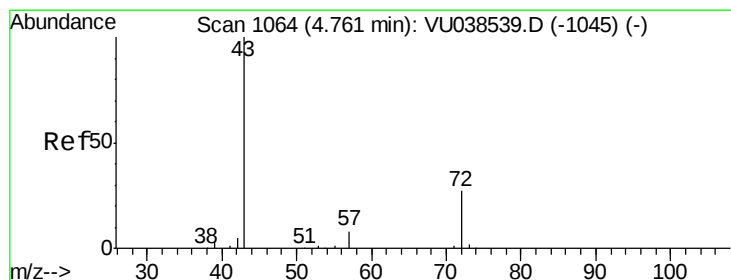
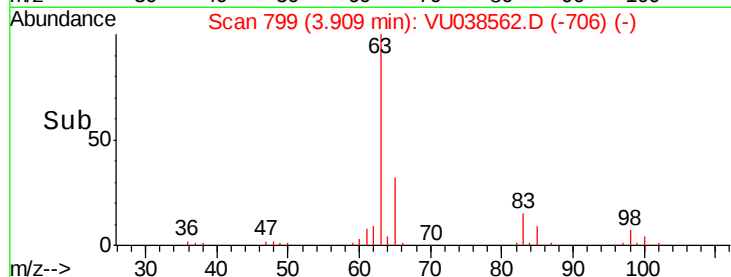
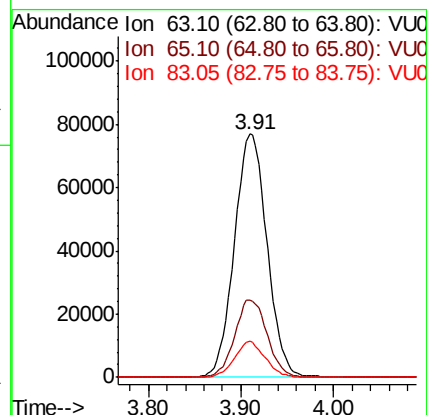
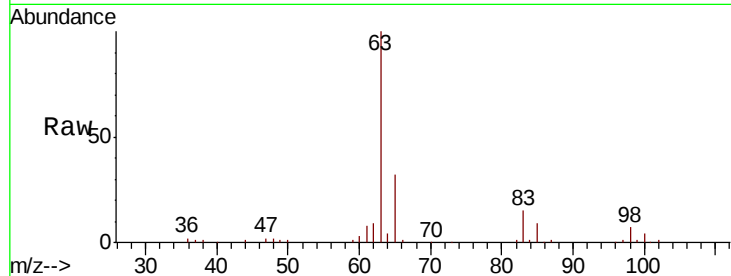




#19
 1,1-Dichloroethane
 Concen: 4.908 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

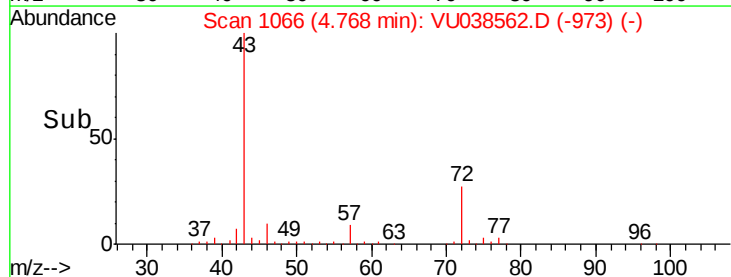
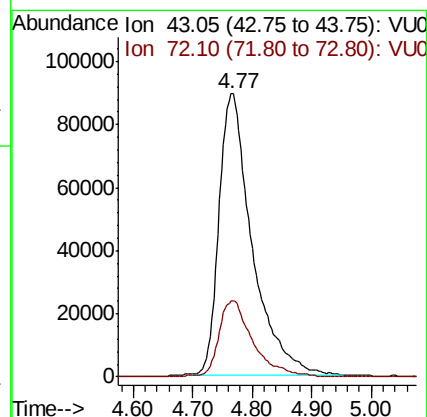
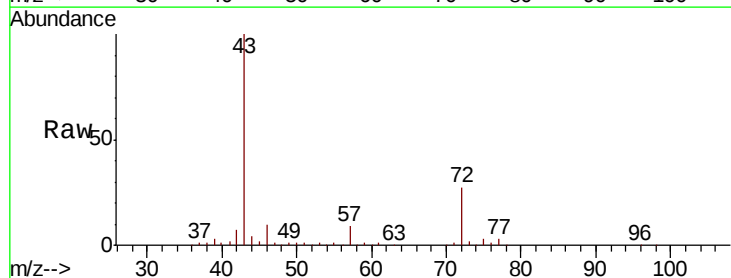
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

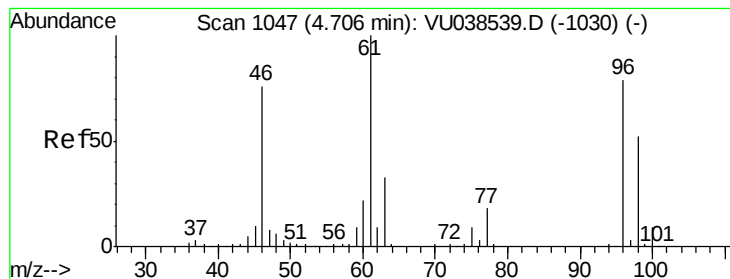
Tot Ion: 63 Resp: 188467
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.3 41.5
 83 14.9 10.4 19.4



#21
 2-Butanone
 Concen: 49.077 ug/L
 RT: 4.77 min Scan# 1066
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Tgt Ion: 43 Resp: 343341
 Ion Ratio Lower Upper
 43 100
 72 26.9 12.6 37.8





#22

cis-1,2-Dichloroethene

Concen: 4.712 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

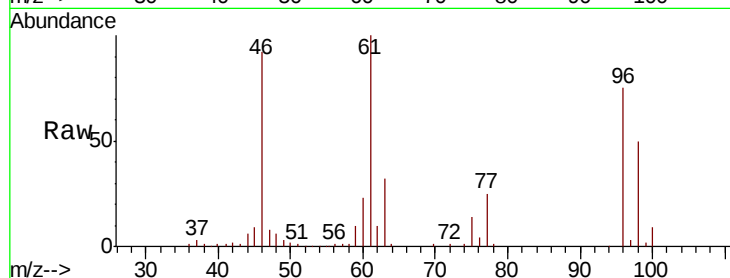
Tot Ion: 96 Resp: 108867

Ion Ratio Lower Upper

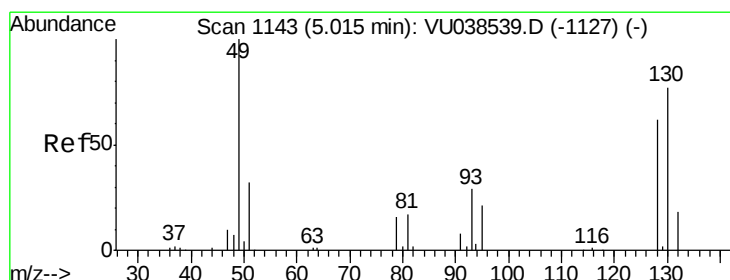
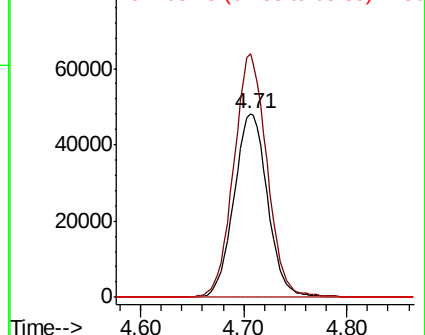
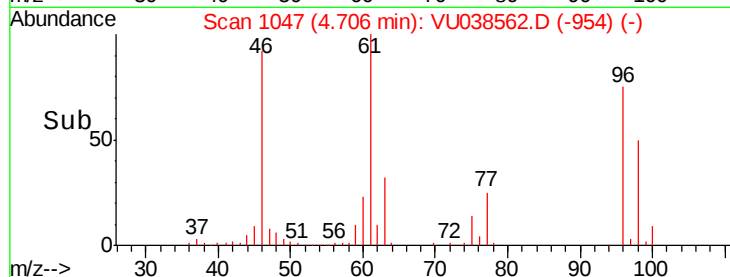
96 100

61 132.6 94.0 174.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038562.D (-954) (-)



#23

Bromochloromethane

Concen: 4.762 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Tgt Ion: 128 Resp: 49511

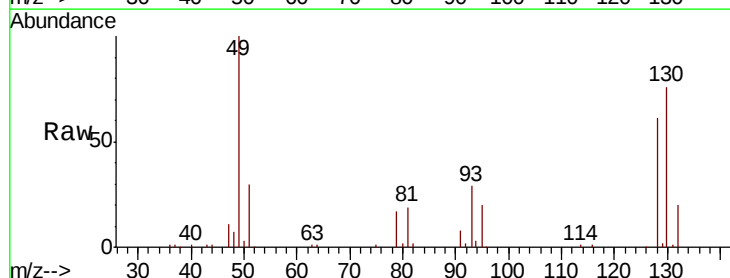
Ion Ratio Lower Upper

128 100

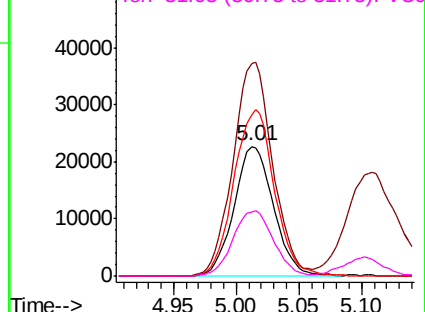
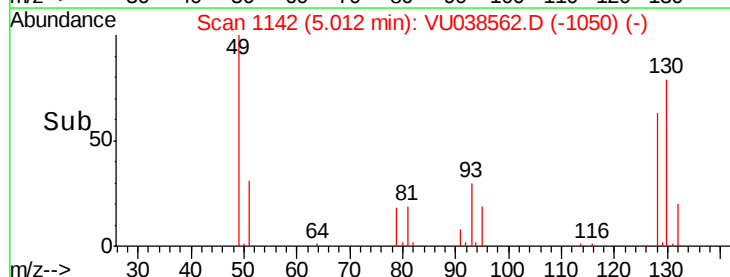
49 164.7 111.9 207.7

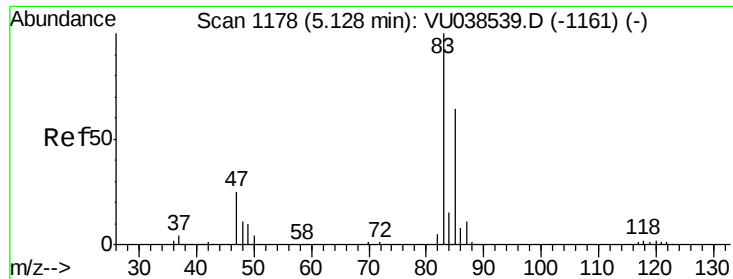
130 125.1 86.5 160.7

51 50.0 41.7 62.5



Abundance Ion 127.90 (127.60 to 128.60): VU038562.D (-1050) (-)

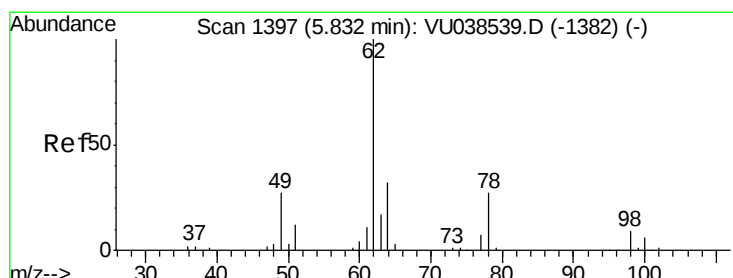
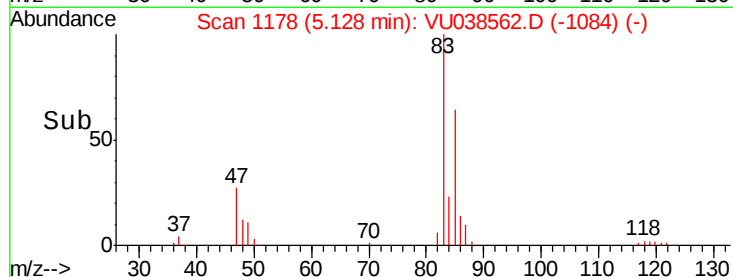
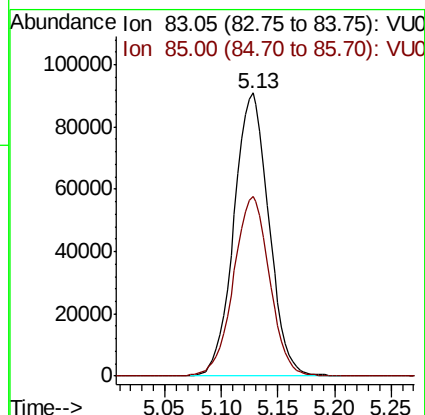
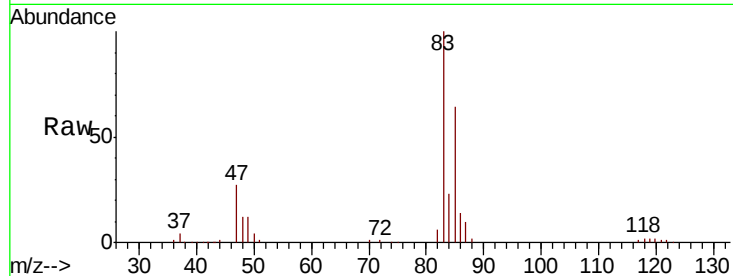




#25
Chloroform
Concen: 5.017 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038562.D
Acq: 05 Jun 2020 10:20

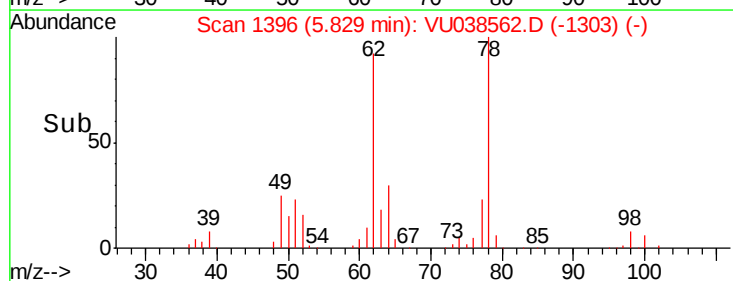
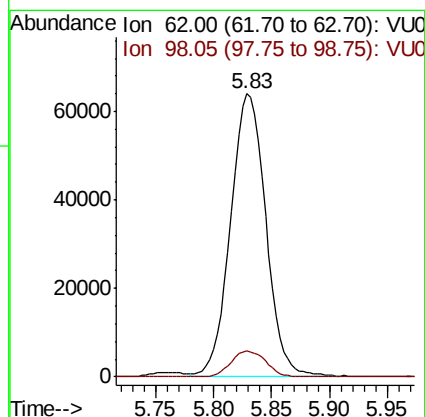
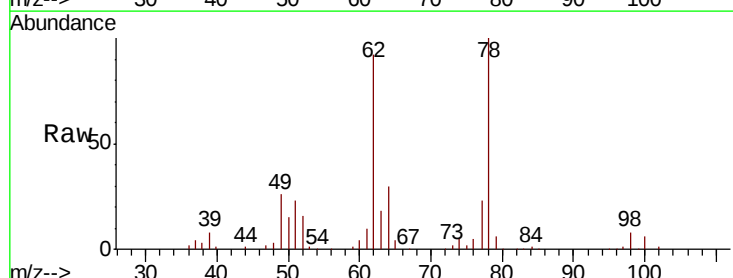
Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

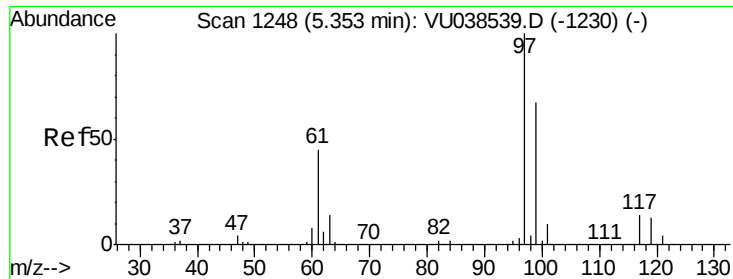
Tot Ion: 83 Resp: 195663
Ion Ratio Lower Upper
83 100
85 63.5 44.9 83.5



#27
1,2-Dichloroethane
Concen: 4.882 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038562.D
Acq: 05 Jun 2020 10:20

Tgt Ion: 62 Resp: 134050
Ion Ratio Lower Upper
62 100
98 9.3 7.4 11.2

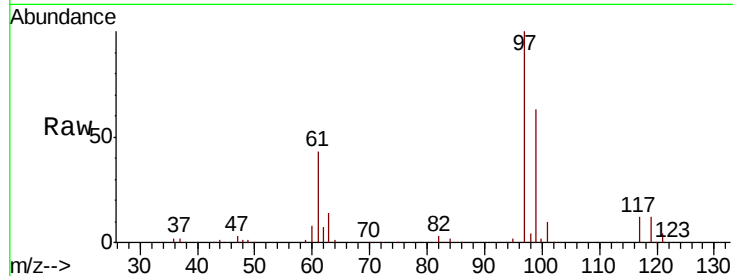




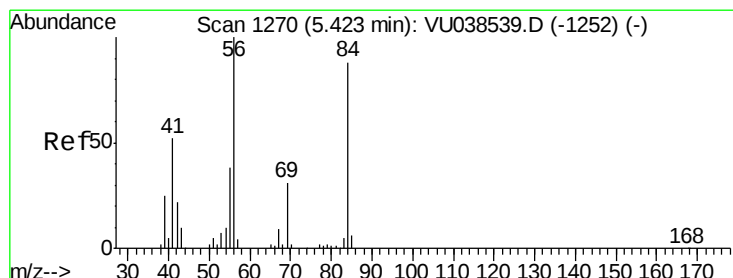
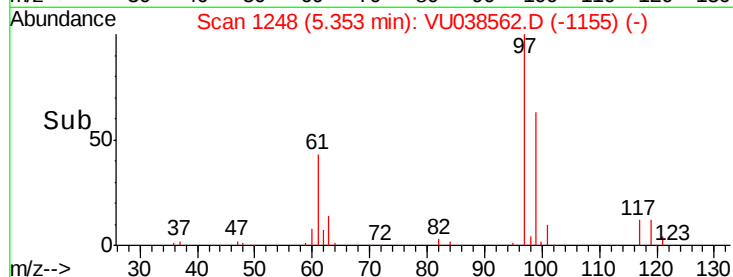
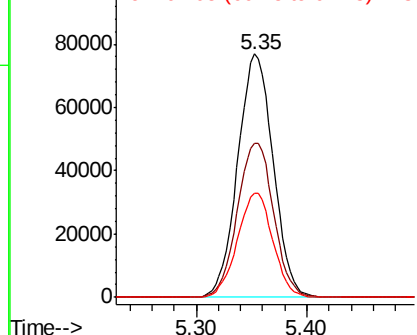
#29
 1,1,1-Trichloroethane
 Concen: 5.131 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00511

Tot Ion: 97 Resp: 171415
 Ion Ratio Lower Upper
 97 100
 99 64.7 52.2 78.2
 61 42.9 35.4 53.2

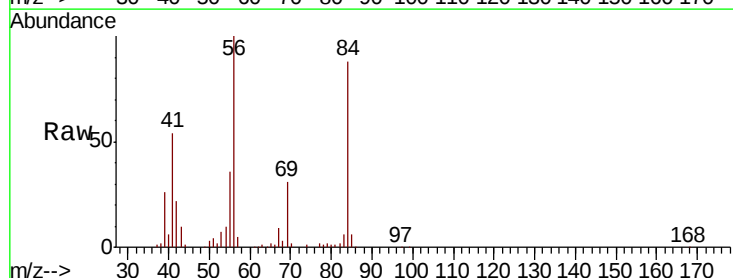


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

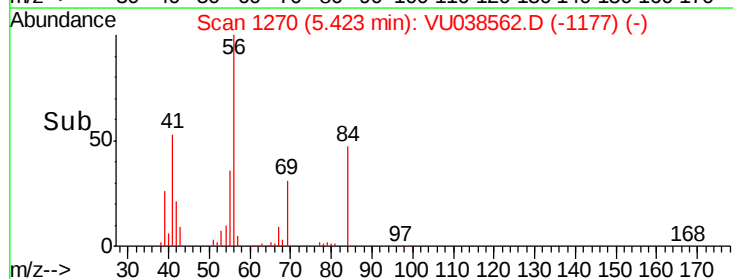
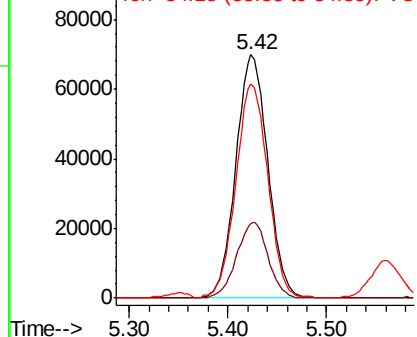


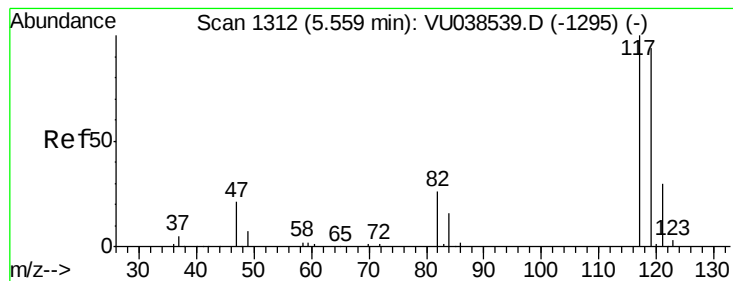
#30
 Cyclohexane
 Concen: 4.489 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Tgt Ion: 56 Resp: 157258
 Ion Ratio Lower Upper
 56 100
 69 30.6 24.2 36.4
 84 88.2 70.8 106.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.092 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

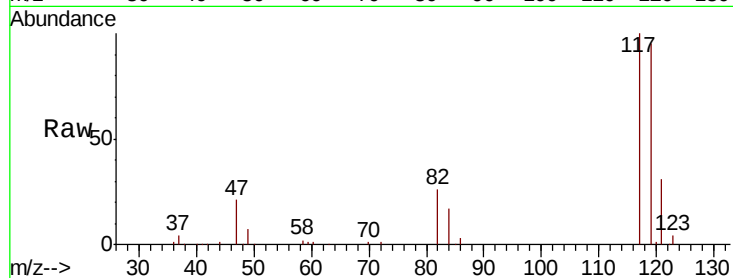
VSTD00511

Tot Ion:117 Resp: 141635

Ion Ratio Lower Upper

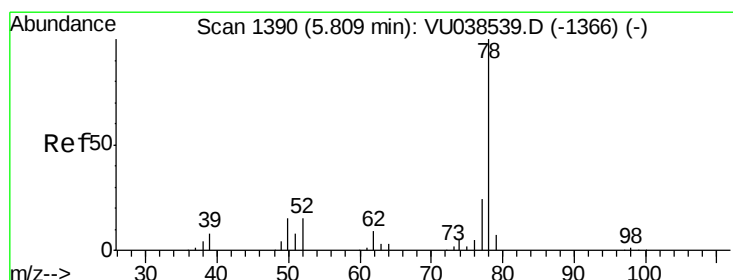
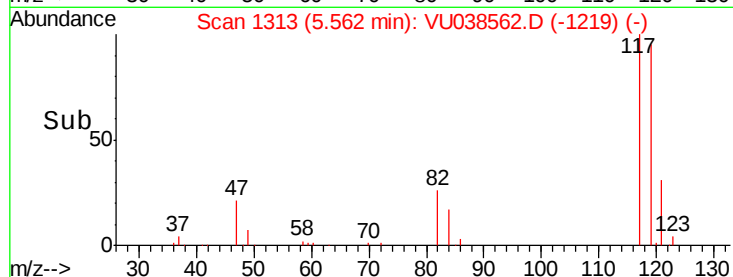
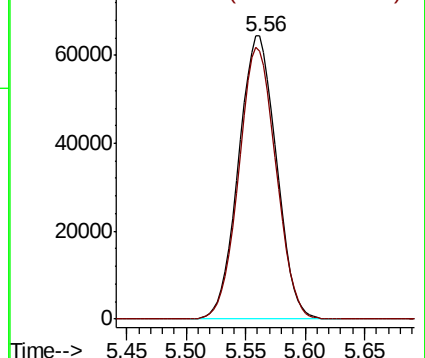
117 100

119 94.6 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.805 ug/L

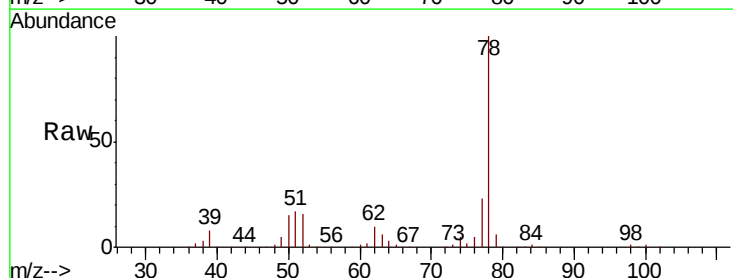
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

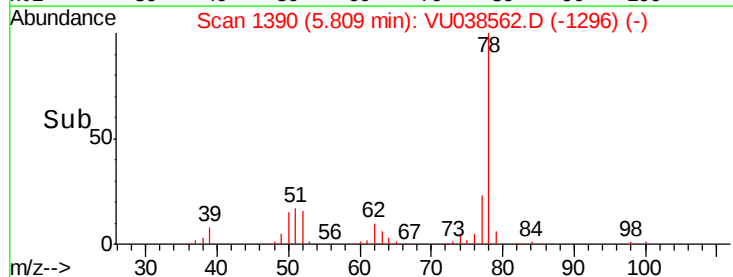
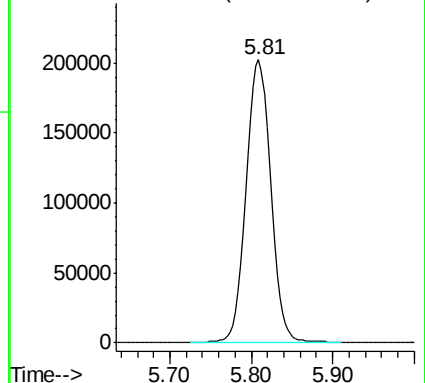
Lab File: VU038562.D

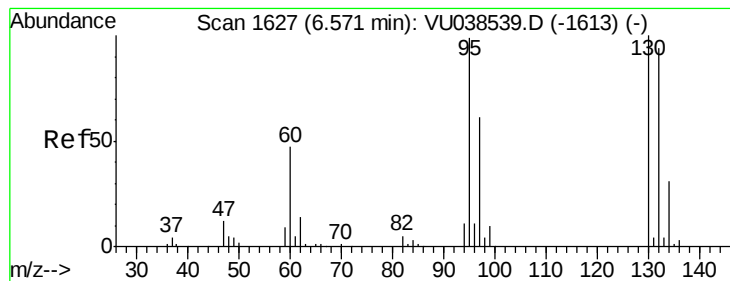
Acq: 05 Jun 2020 10:20

Tgt Ion: 78 Resp: 423017



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.790 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

Tot Ion: 95 Resp: 109469

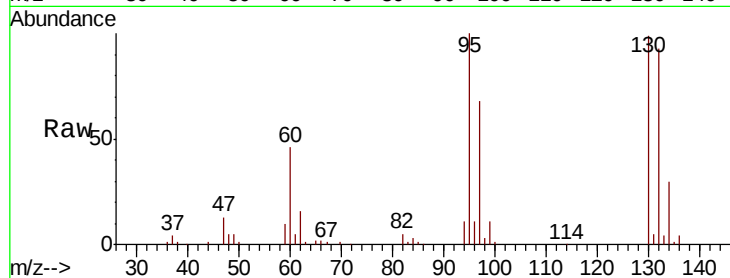
Ion Ratio Lower Upper

95 100

97 67.6 46.8 87.0

132 92.8 66.1 122.7

130 98.9 70.0 130.0

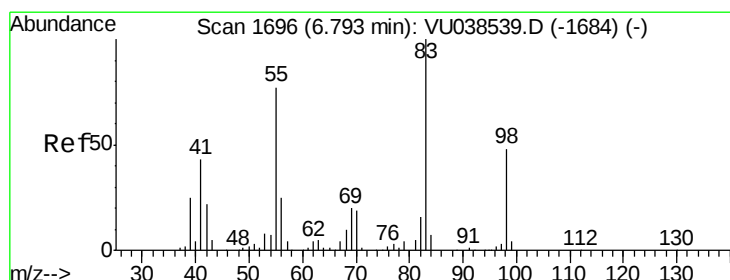
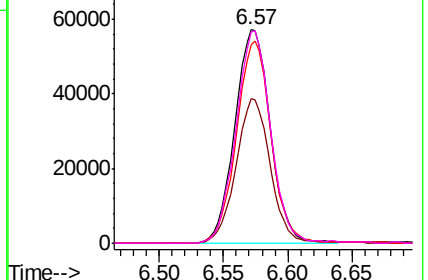
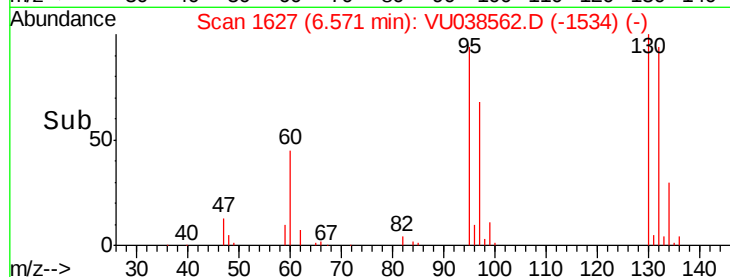


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.595 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

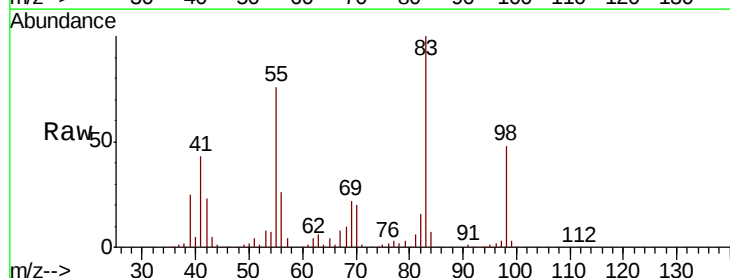
Tgt Ion: 83 Resp: 162572

Ion Ratio Lower Upper

83 100

55 76.3 63.4 95.2

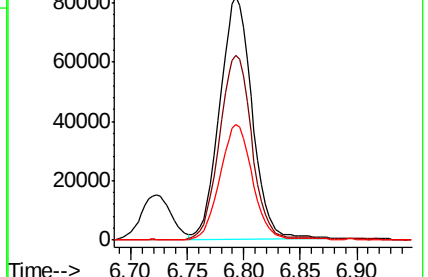
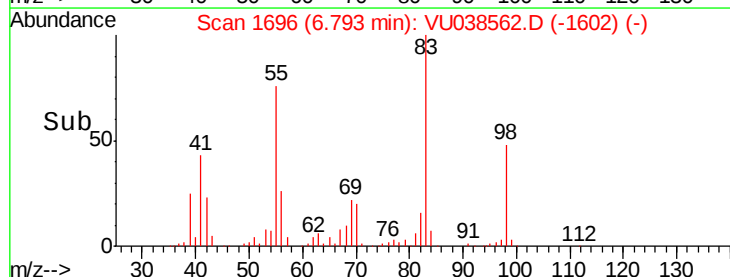
98 47.5 39.0 58.4

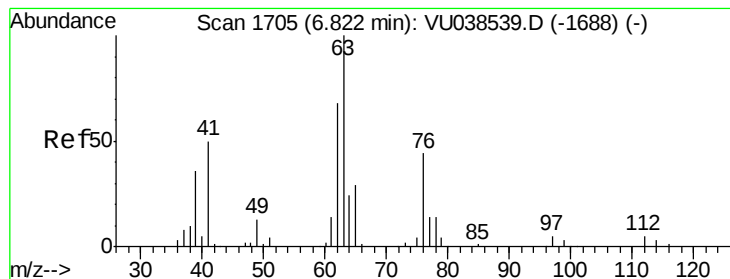


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.816 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

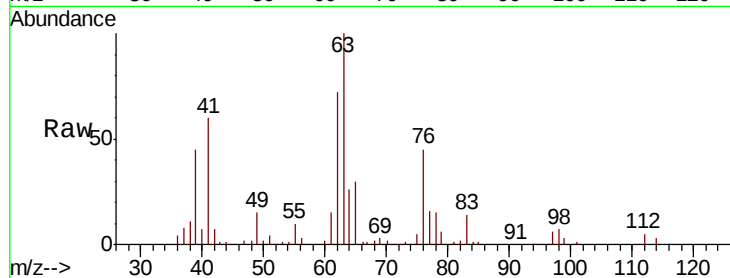
VSTD00511

Tot Ion: 63 Resp: 106695

Ion Ratio Lower Upper

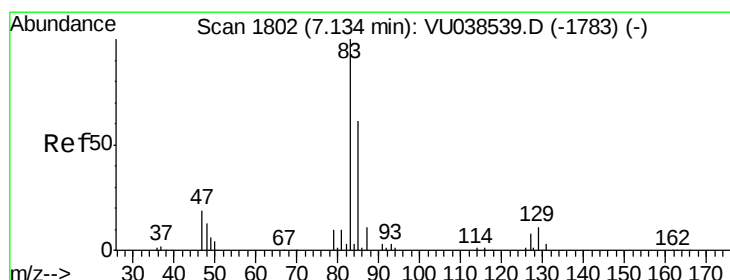
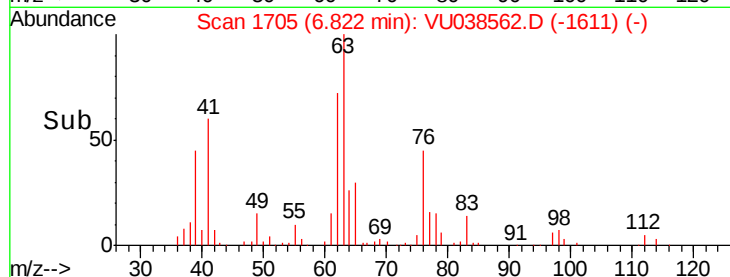
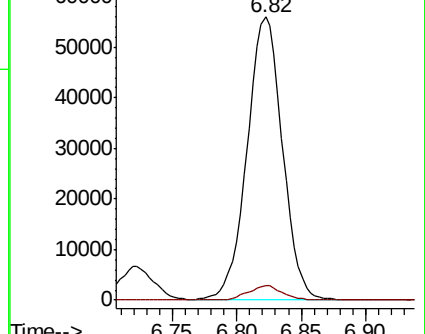
63 100

112 5.0 3.7 5.5



Abundance Ion 63.10 (62.80 to 63.80): VU038539.D (-1688) (-)

Ion 112.10 (111.80 to 112.80): VU038539.D (-1688) (-)



#38

Bromodichloromethane

Concen: 5.173 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

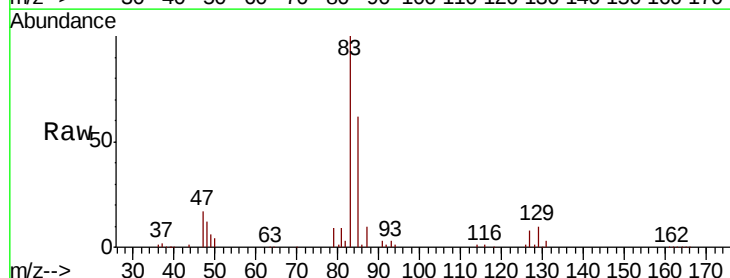
Tgt Ion: 83 Resp: 142321

Ion Ratio Lower Upper

83 100

85 62.0 44.7 83.1

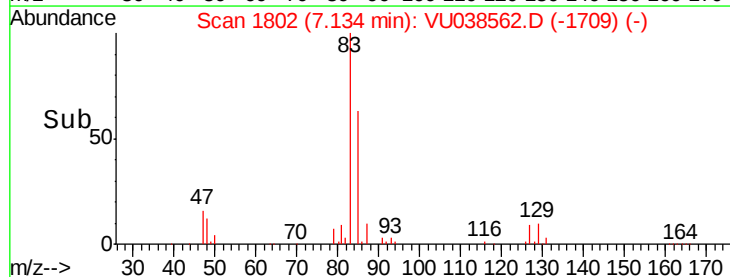
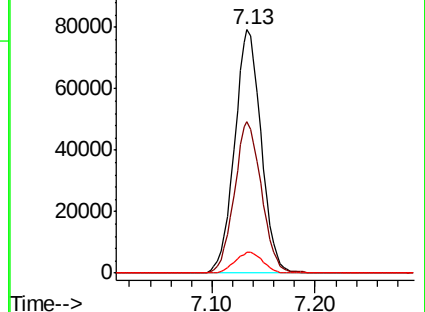
127 8.4 6.8 10.2

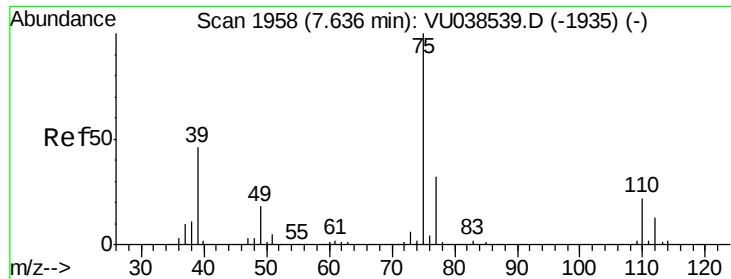


Abundance Ion 82.95 (82.65 to 83.65): VU038539.D (-1783) (-)

Ion 85.00 (84.70 to 85.70): VU038539.D (-1783) (-)

Ion 126.90 (126.60 to 127.60): VU038539.D (-1783) (-)

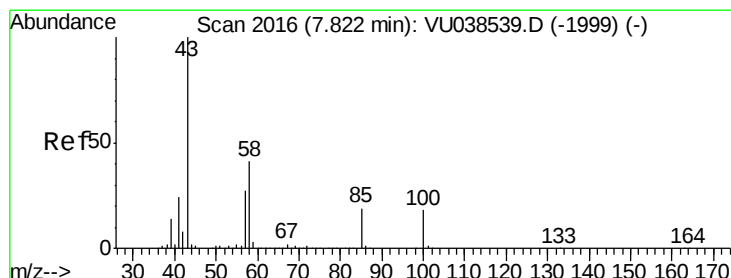
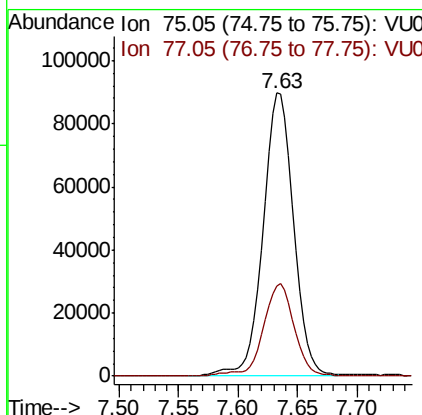
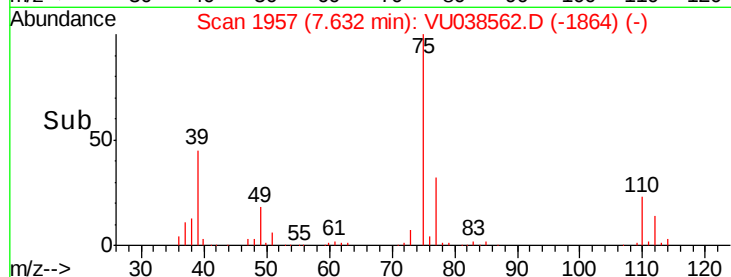
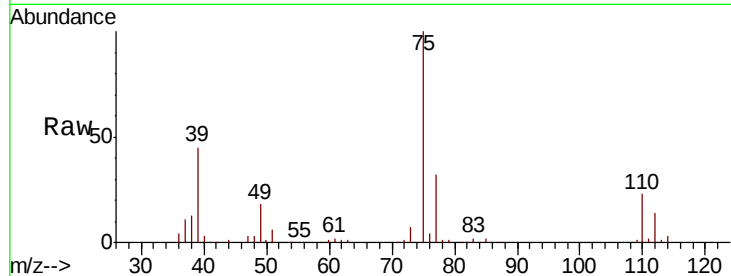




#39
 cis-1,3-Dichloropropene
 Concen: 4.883 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

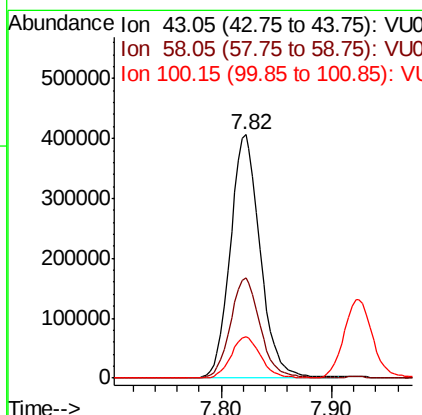
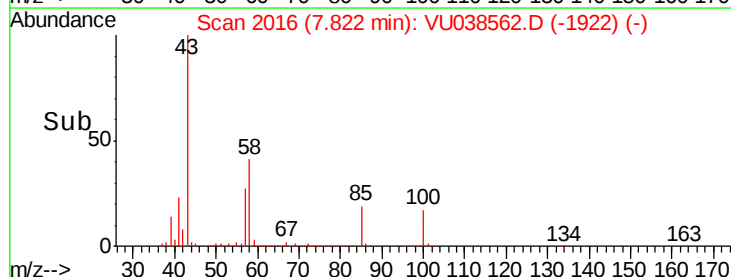
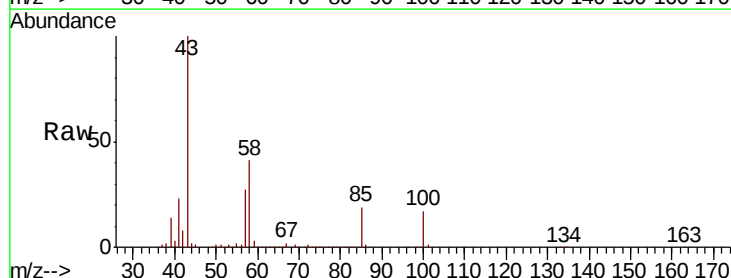
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

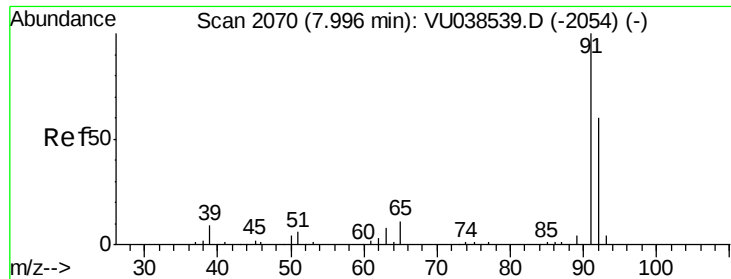
Tot Ion: 75 Resp: 159895
 Ion Ratio Lower Upper
 75 100
 77 32.0 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 48.140 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Tgt Ion: 43 Resp: 762761
 Ion Ratio Lower Upper
 43 100
 58 41.2 32.4 48.6
 100 16.9 13.3 19.9





#42

Toluene

Concen: 4.825 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

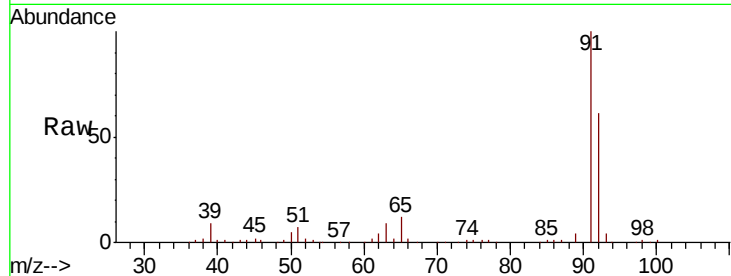
VSTD00511

Tot Ion: 91 Resp: 445566

Ion Ratio Lower Upper

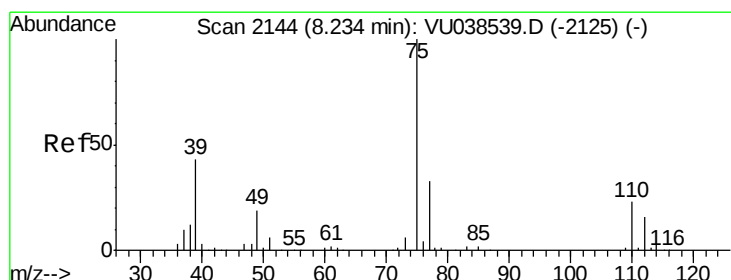
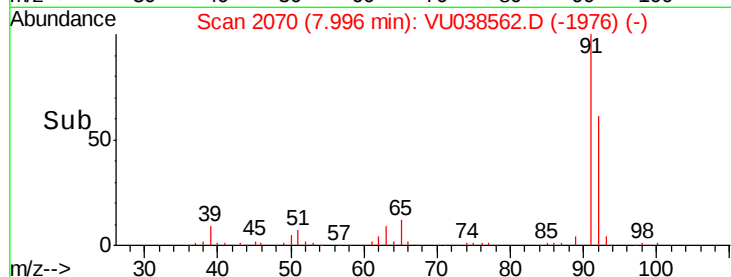
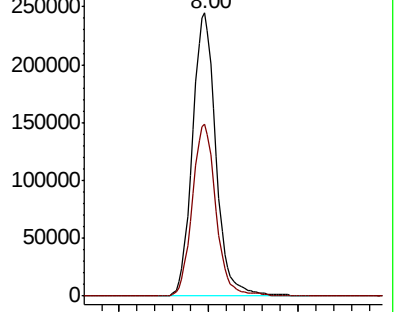
91 100

92 60.6 43.0 79.8



Abundance Ion 91.15 (90.85 to 91.85): VU038539.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU038539.D (-2054) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.953 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU038562.D

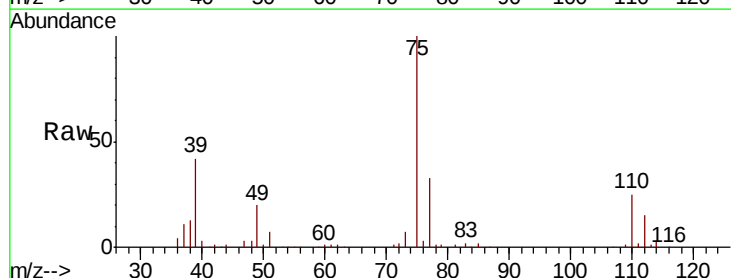
Acq: 05 Jun 2020 10:20

Tgt Ion: 75 Resp: 143231

Ion Ratio Lower Upper

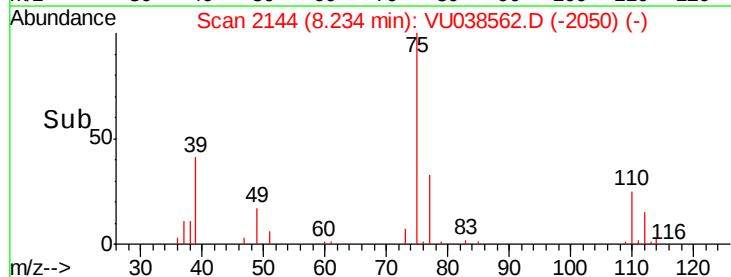
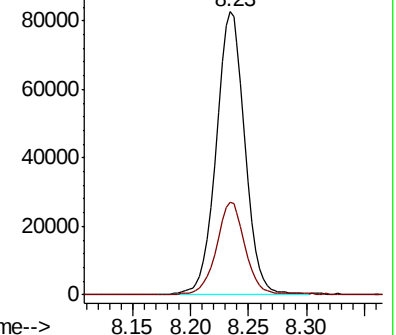
75 100

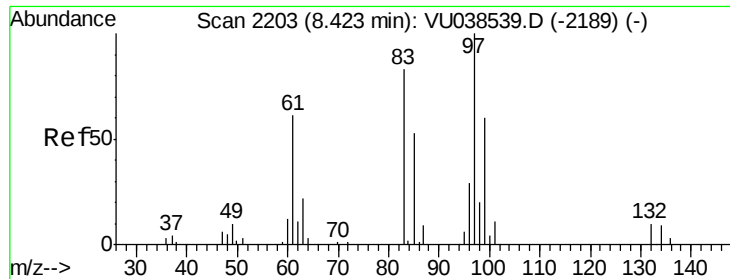
77 32.9 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU038539.D (-2125) (-)

Ion 77.05 (76.75 to 77.75): VU038539.D (-2125) (-)

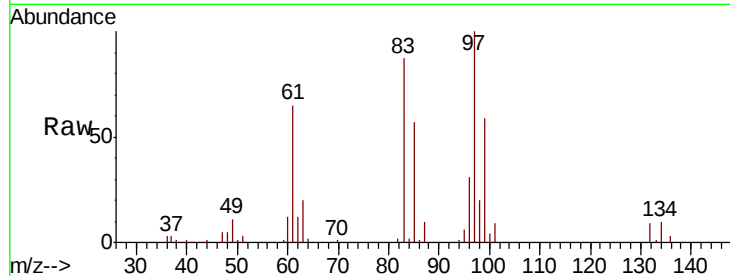




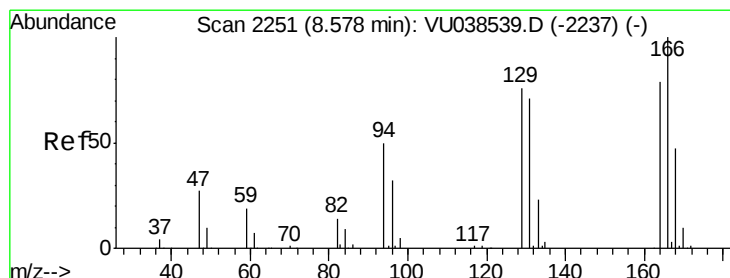
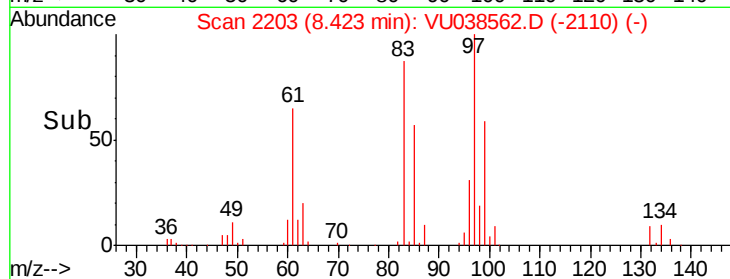
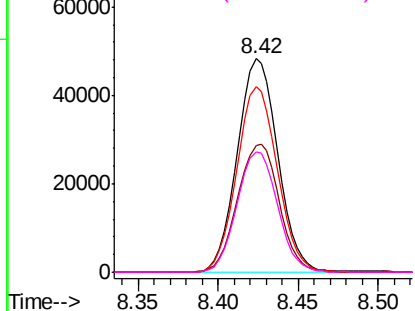
#45
 1,1,2-Trichloroethane
 Concen: 4.985 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion:	97	Resp:	83318
Ion	Ratio	Lower	Upper
97	100		
99	59.3	42.1	78.1
83	87.2	58.8	109.2
85	56.5	37.4	69.4

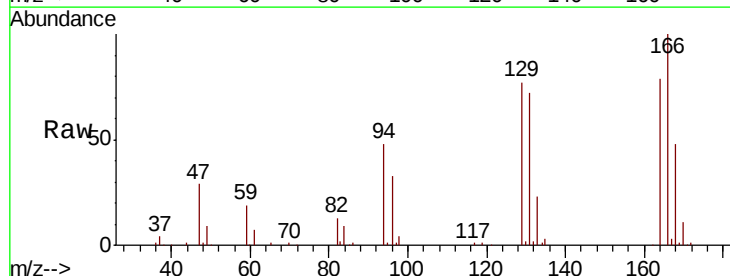


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

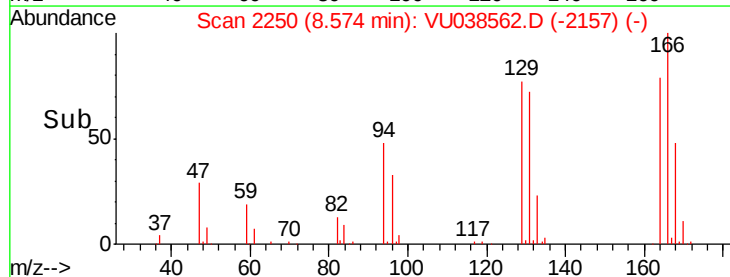
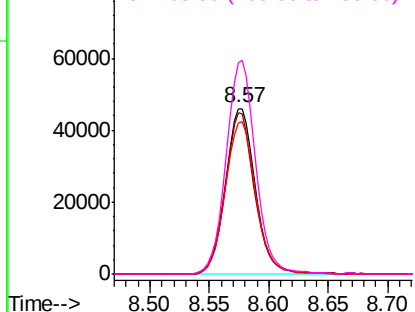


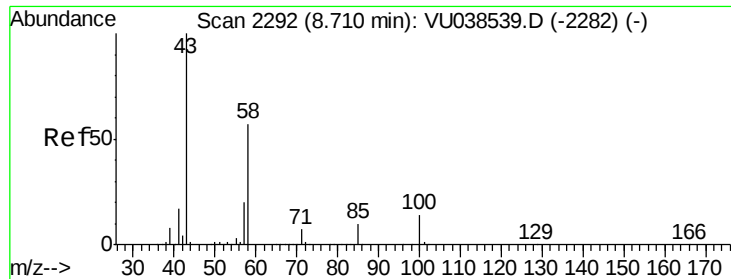
#47
 Tetrachloroethene
 Concen: 4.804 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Tgt Ion:	164	Resp:	79762
Ion	Ratio	Lower	Upper
164	100		
129	97.7	67.4	125.2
131	91.4	64.1	119.1
166	127.1	85.7	159.1



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

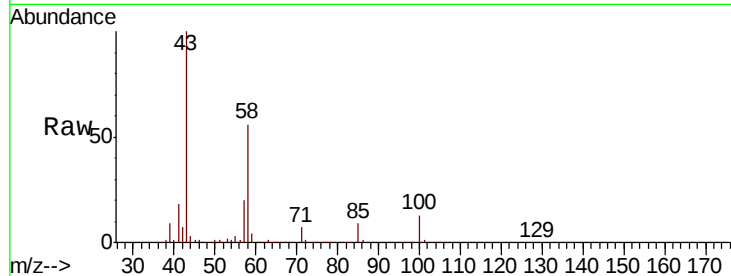




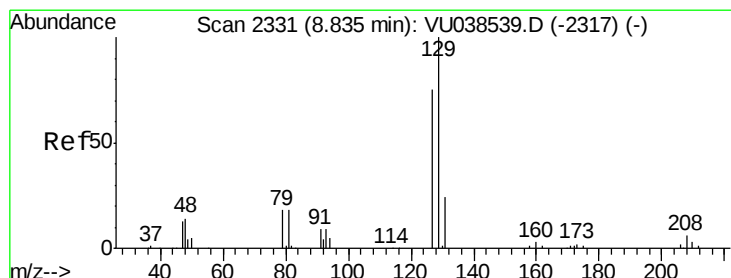
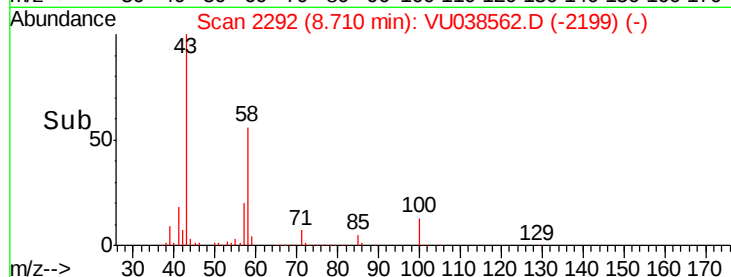
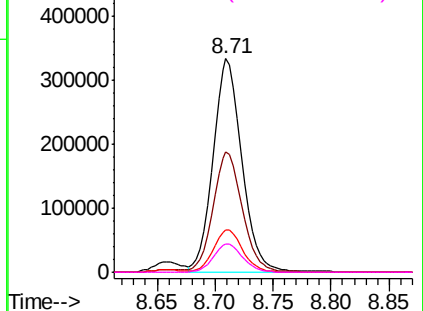
#48
2-Hexanone
Concen: 48.176 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU038562.D
Acq: 05 Jun 2020 10:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

Tot Ion: 43 Resp: 578083
Ion Ratio Lower Upper
43 100
58 56.9 45.4 68.0
57 19.9 15.9 23.9
100 13.6 10.5 15.7

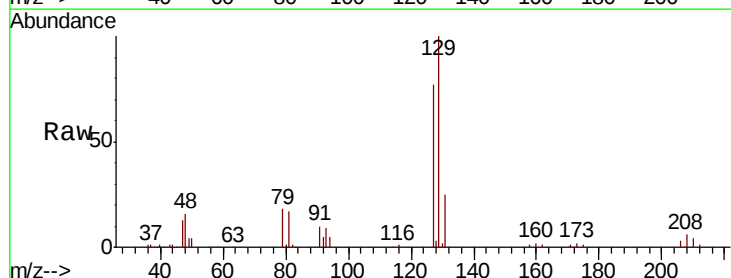


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

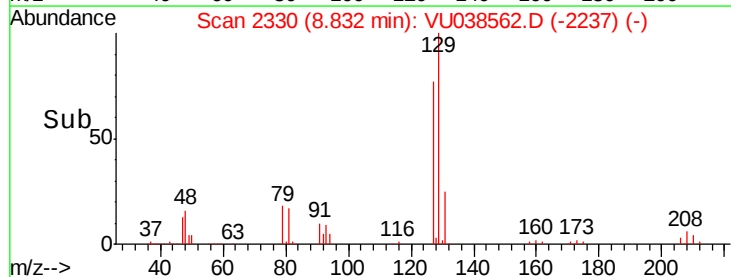
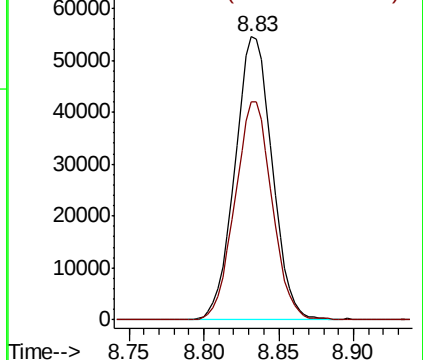


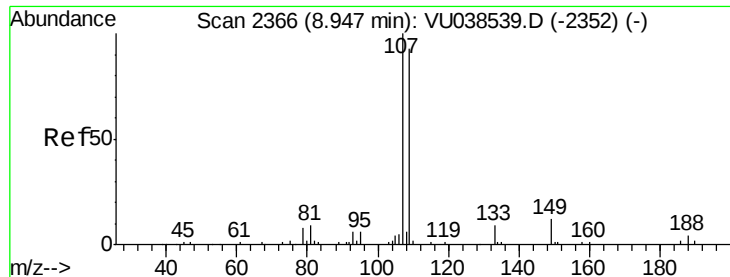
#49
Dibromochloromethane
Concen: 5.240 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU038562.D
Acq: 05 Jun 2020 10:20

Tgt Ion: 129 Resp: 94535
Ion Ratio Lower Upper
129 100
127 76.9 53.3 99.1



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

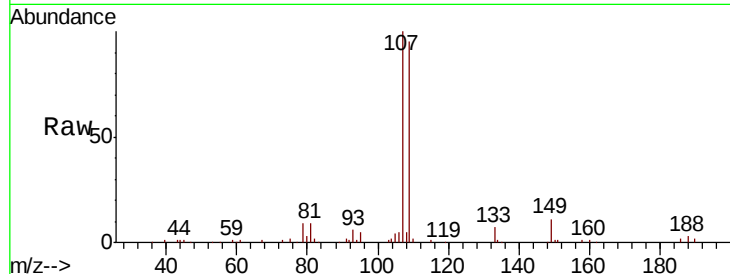




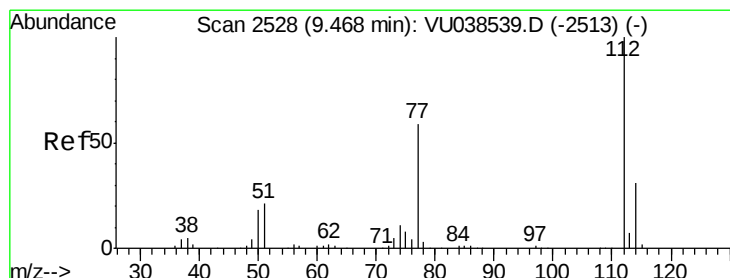
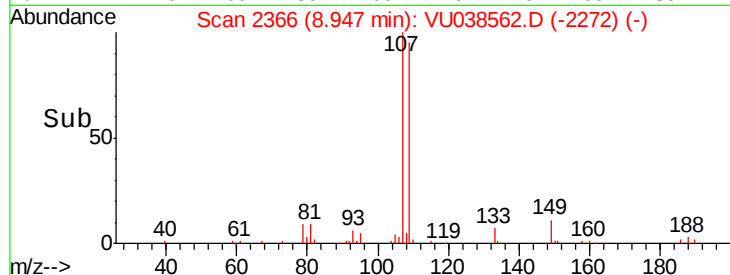
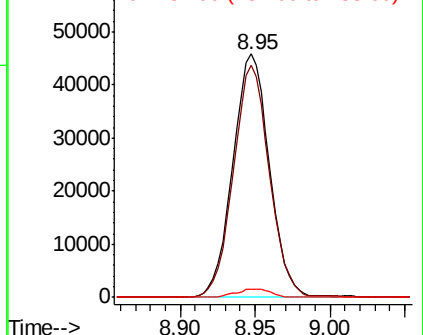
#50
 1,2-Dibromoethane
 Concen: 4.866 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion:107 Resp: 77875
 Ion Ratio Lower Upper
 107 100
 109 95.5 67.0 124.4
 188 3.5 3.0 4.4

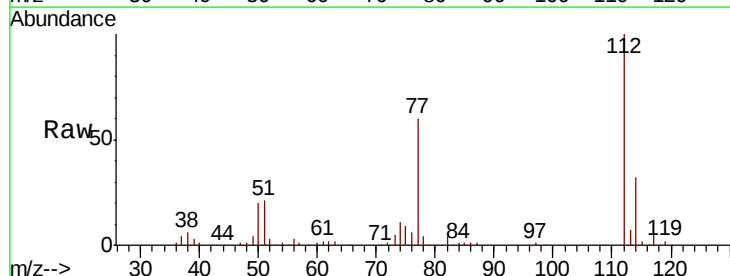


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

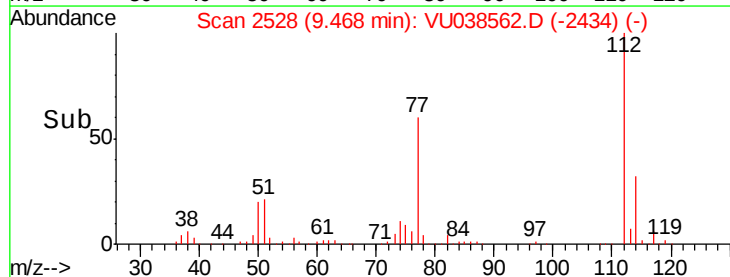
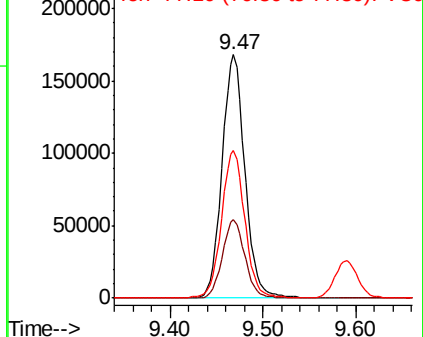


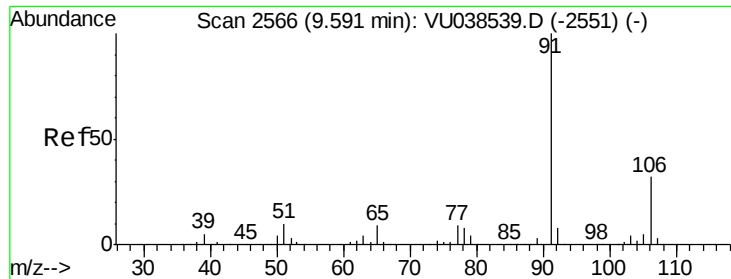
#51
 Chlorobenzene
 Concen: 4.819 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Tgt Ion:112 Resp: 287023
 Ion Ratio Lower Upper
 112 100
 114 32.4 22.4 41.6
 77 60.4 47.1 70.7



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): VU





#52

Ethylbenzene

Concen: 4.814 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

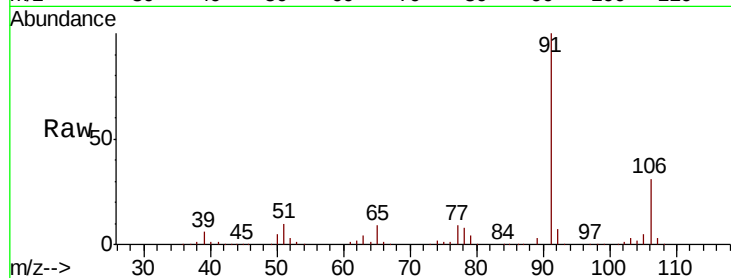
VSTD00511

Tot Ion: 91 Resp: 494613

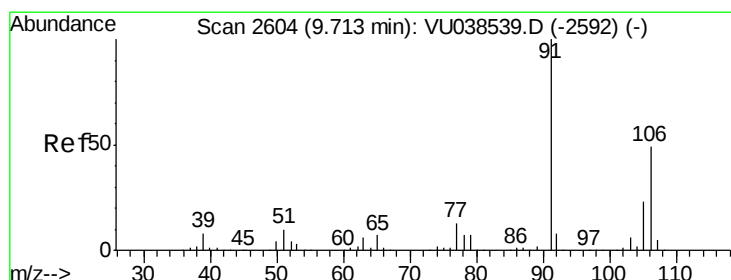
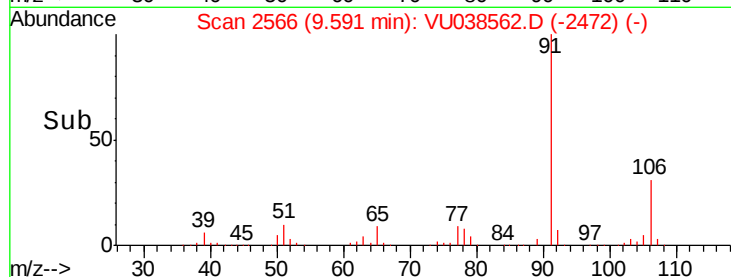
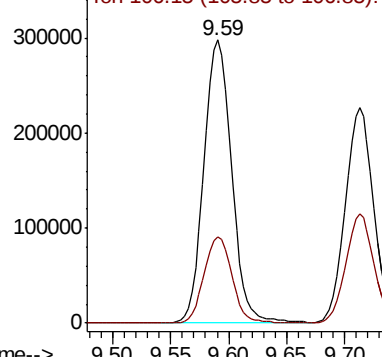
Ion Ratio Lower Upper

91 100

106 30.5 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VU038539.D (-2551) (-)



#53

m,p-Xylene

Concen: 4.958 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU038562.D

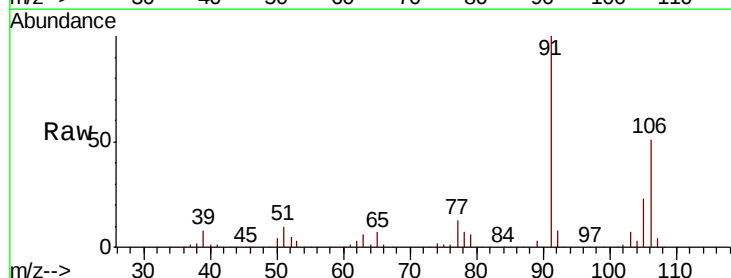
Acq: 05 Jun 2020 10:20

Tgt Ion: 106 Resp: 195902

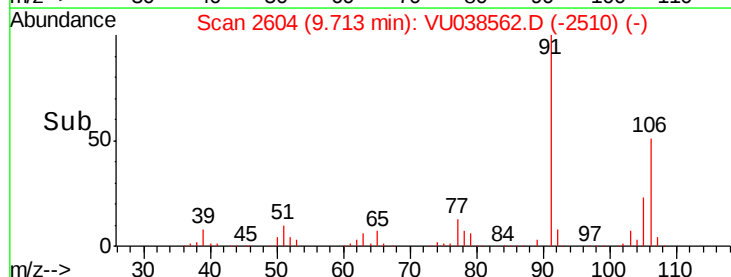
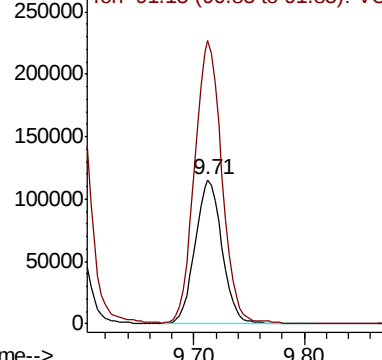
Ion Ratio Lower Upper

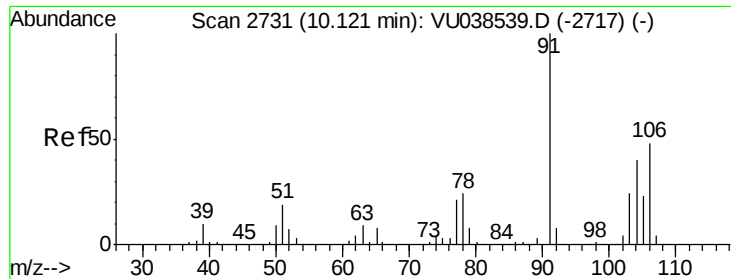
106 100

91 196.7 138.1 256.5



Abundance Ion 106.15 (105.85 to 106.85): VU038539.D (-2592) (-)

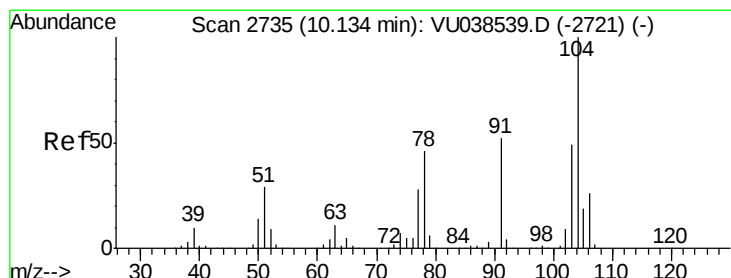
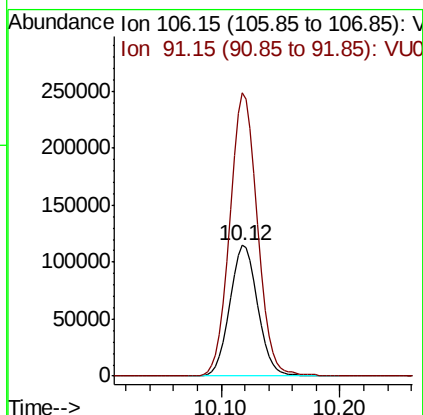
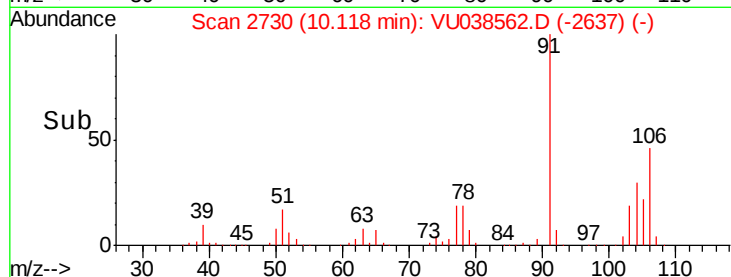
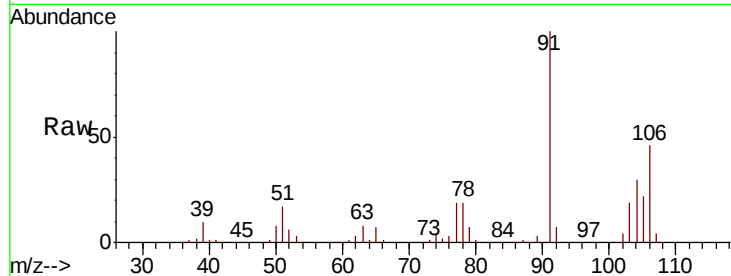




#54
o-Xylene
Concen: 4.943 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. 0.00 min
Lab File: VU038562.D
Acq: 05 Jun 2020 10:20

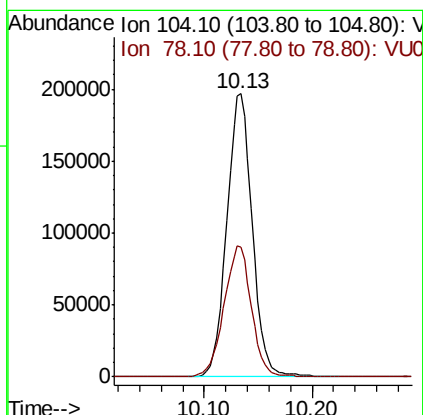
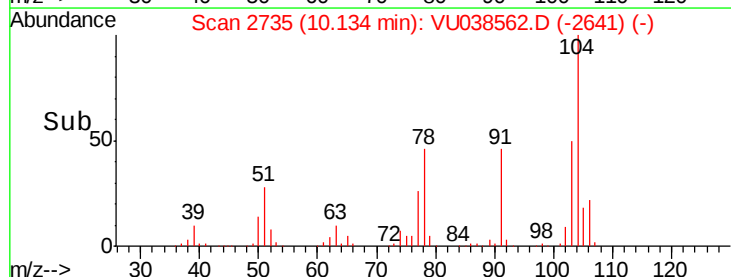
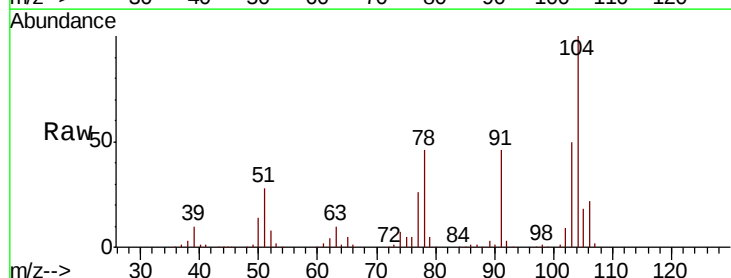
Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

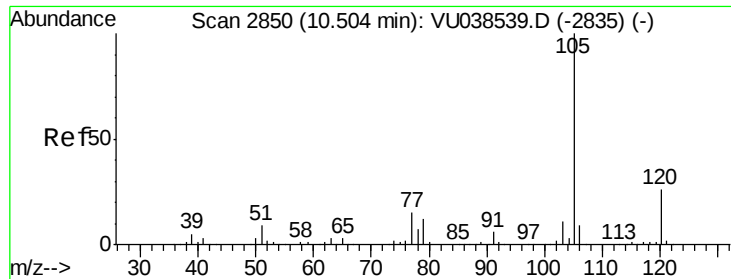
Tot Ion:106 Resp: 187487
Ion Ratio Lower Upper
106 100
91 216.1 150.6 279.8



#55
Styrene
Concen: 5.024 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VU038562.D
Acq: 05 Jun 2020 10:20

Tgt Ion:104 Resp: 323486
Ion Ratio Lower Upper
104 100
78 46.0 31.9 59.3





#56

Isopropylbenzene

Concen: 4.986 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

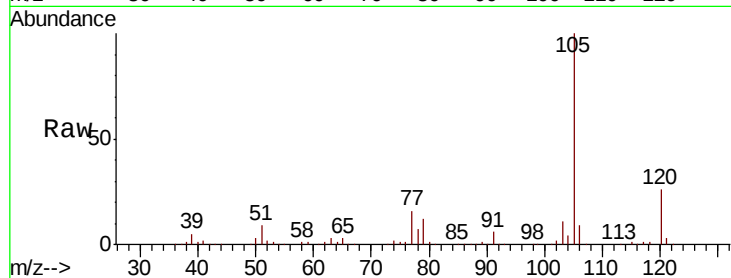
Tot Ion:105 Resp: 497812

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1

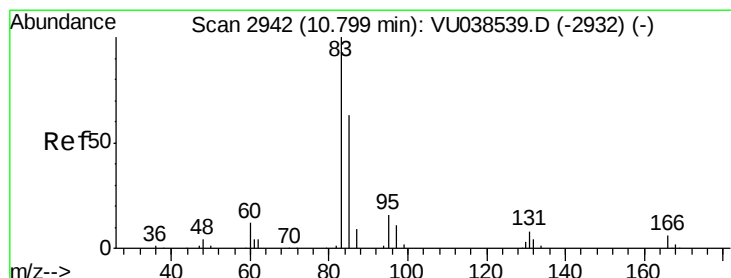
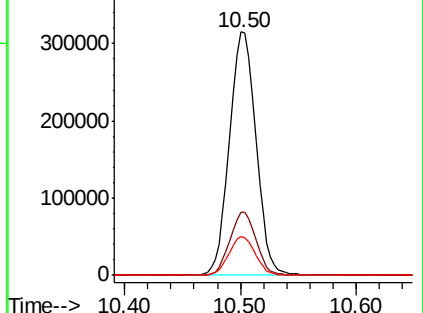
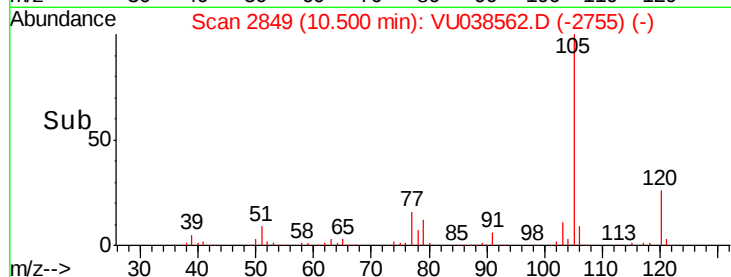
77 15.8 12.5 18.7



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



#58

1,1,2,2-Tetrachloroethane

Concen: 4.778 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

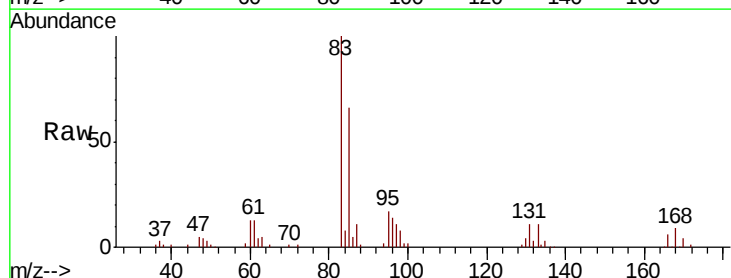
Tgt Ion: 83 Resp: 101497

Ion Ratio Lower Upper

83 100

85 66.3 44.2 82.0

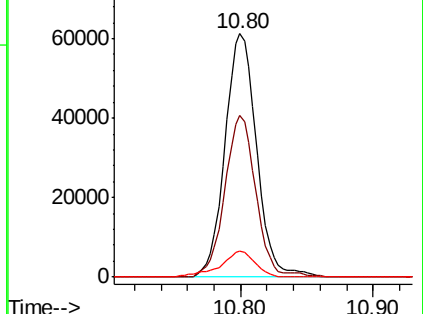
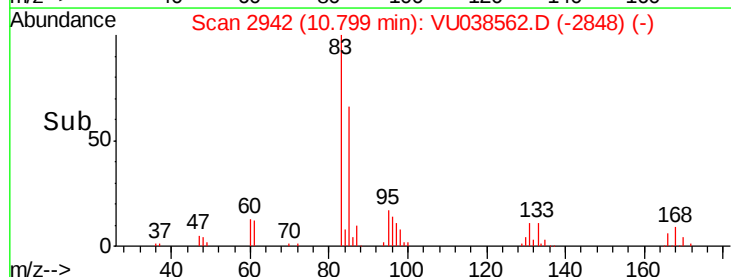
131 10.6 8.1 12.1

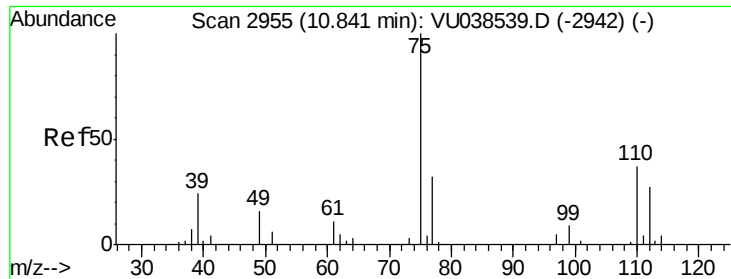


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

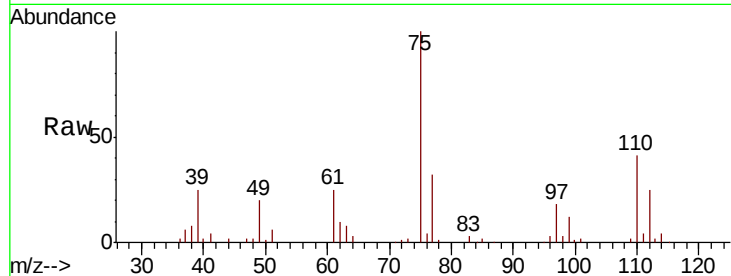




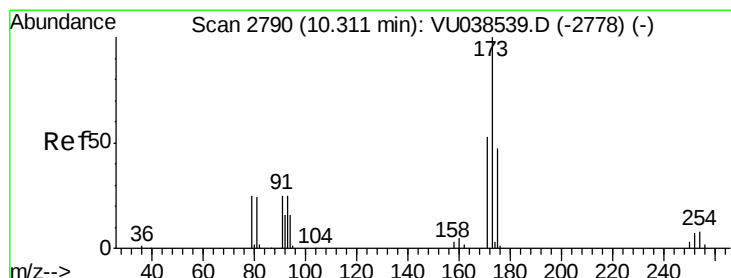
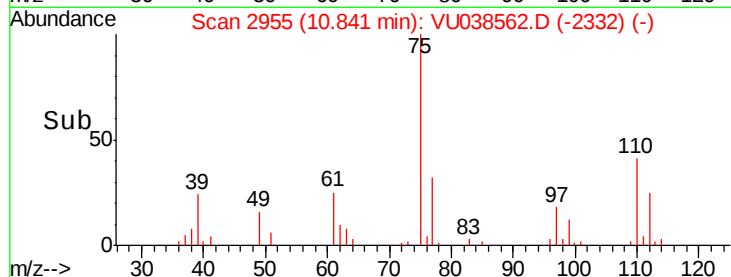
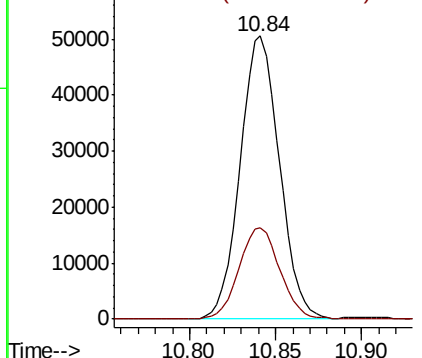
#59
 1,2,3-Trichloropropane
 Concen: 4.856 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion: 75 Resp: 80295
 Ion Ratio Lower Upper
 75 100
 77 33.6 25.4 38.2

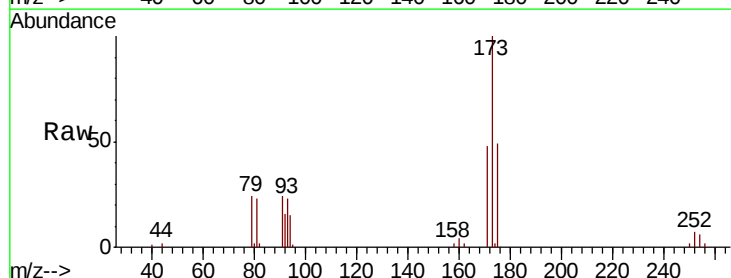


Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0

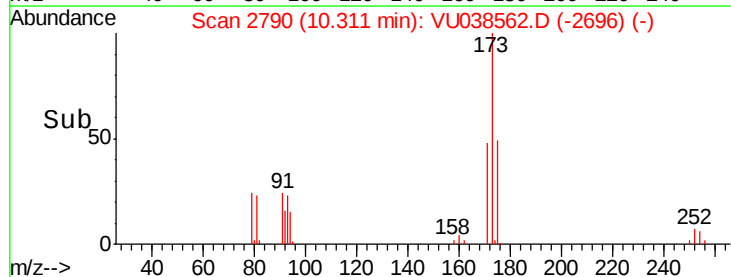
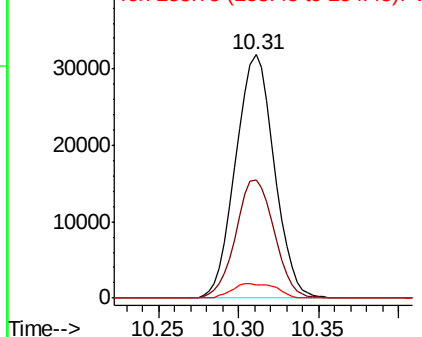


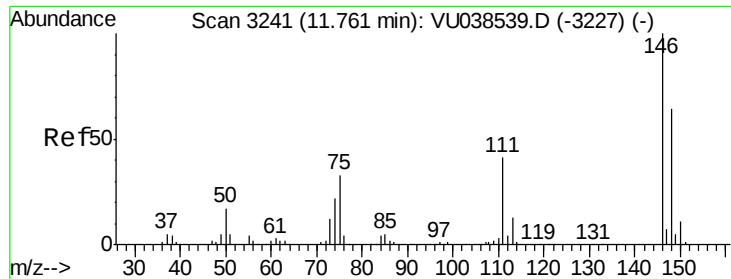
#61
 Bromoform
 Concen: 5.236 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Tgt Ion: 173 Resp: 52467
 Ion Ratio Lower Upper
 173 100
 175 48.6 38.7 58.1
 254 6.8 5.4 8.2



Abundance Ion 172.90 (172.60 to 173.60): V
 Ion 174.90 (174.60 to 175.60): V
 Ion 253.75 (253.45 to 254.45): V

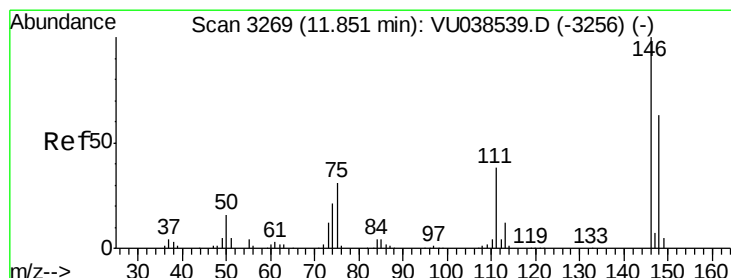
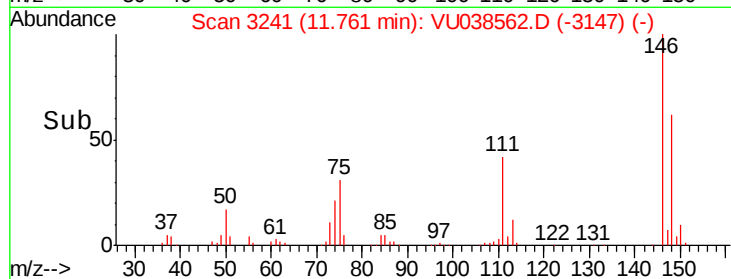
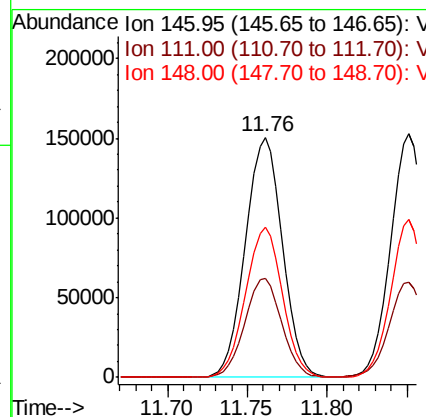
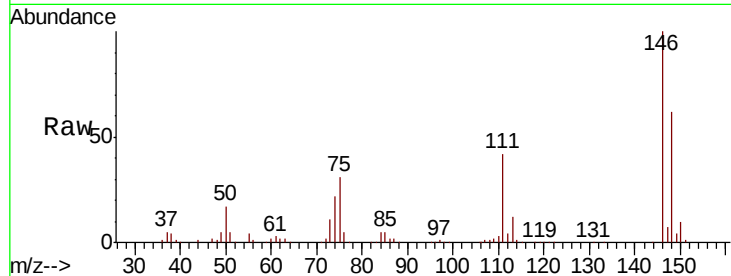




#62
 1,3-Dichlorobenzene
 Concen: 5.019 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

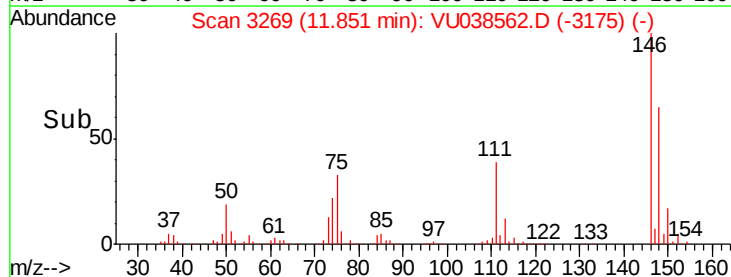
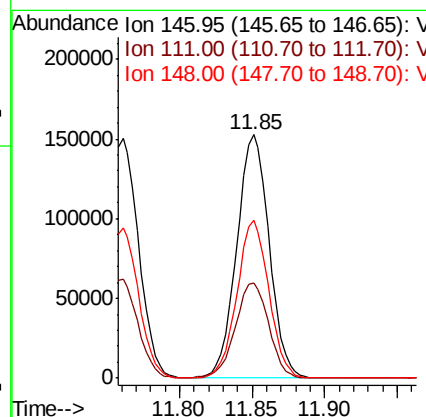
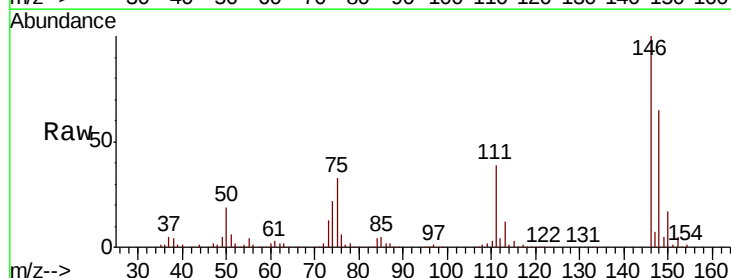
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

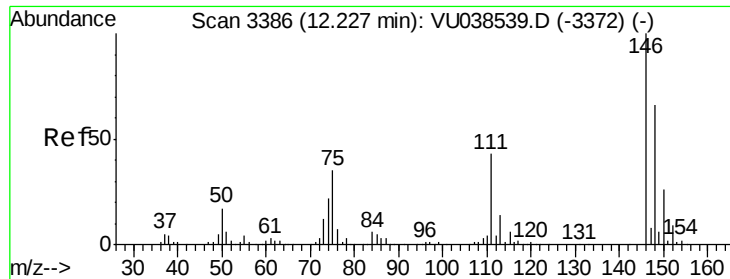
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	29.5	54.9
148	62.4	45.6	84.6



#63
 1,4-Dichlorobenzene
 Concen: 4.938 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	27.6	51.2
148	64.6	44.8	83.2





#65

1,2-Dichlorobenzene

Concen: 4.988 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

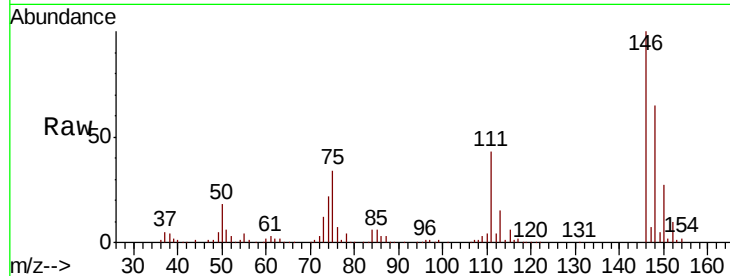
Tot Ion:146 Resp: 223827

Ion Ratio Lower Upper

146 100

111 42.9 35.1 52.7

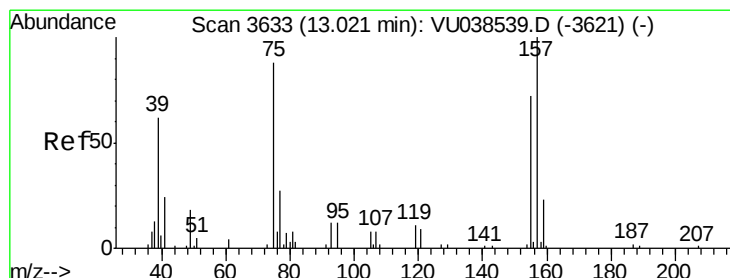
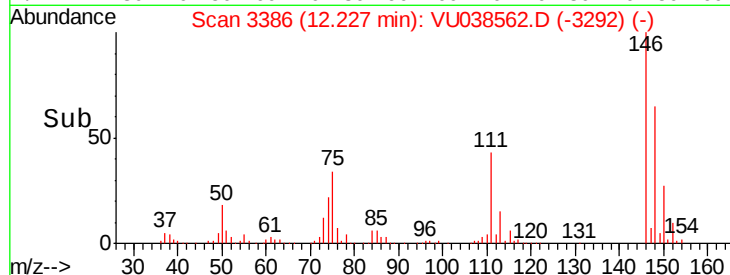
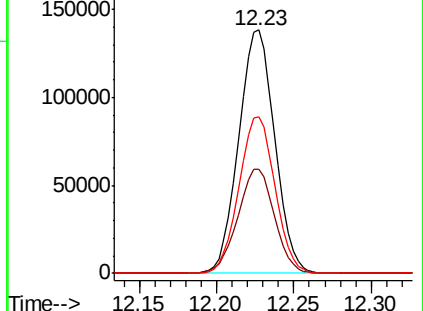
148 64.5 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): 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: 5.294 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.01 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

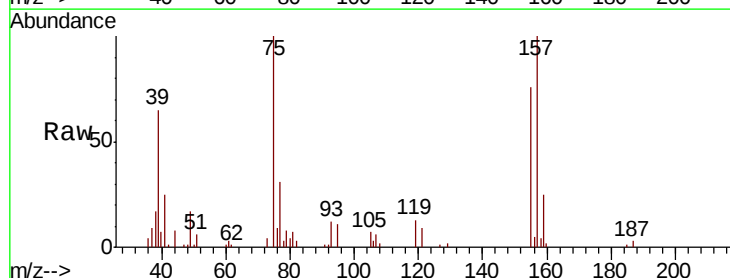
Tgt Ion: 75 Resp: 19235

Ion Ratio Lower Upper

75 100

155 76.0 59.6 89.4

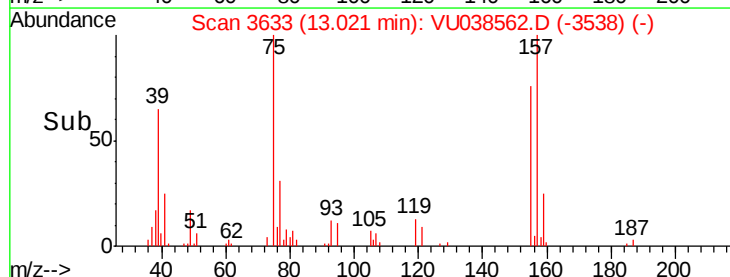
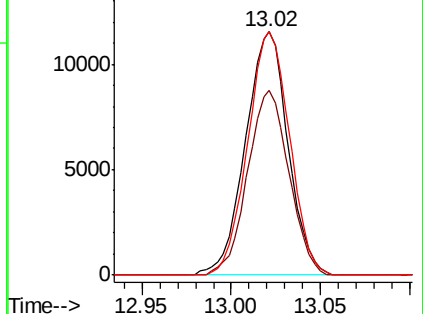
157 99.9 79.8 119.6

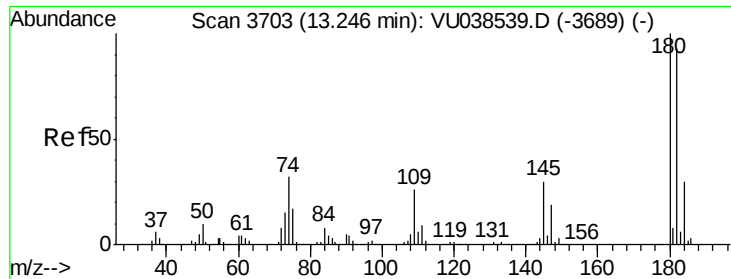


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

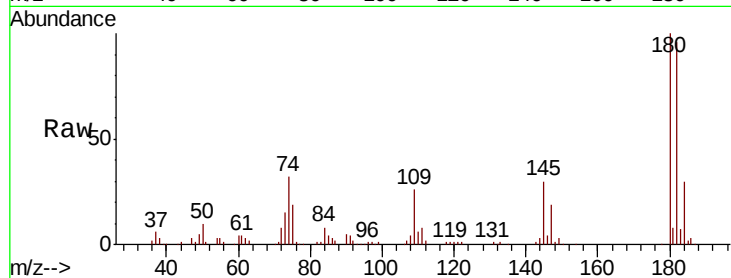




#67
 1,3,5-Trichlorobenzene
 Concen: 5.018 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.01 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.8	115.2
184	30.0	25.1	37.7
145	30.6	24.6	37.0



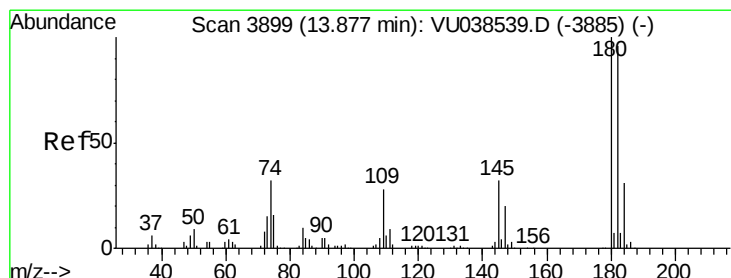
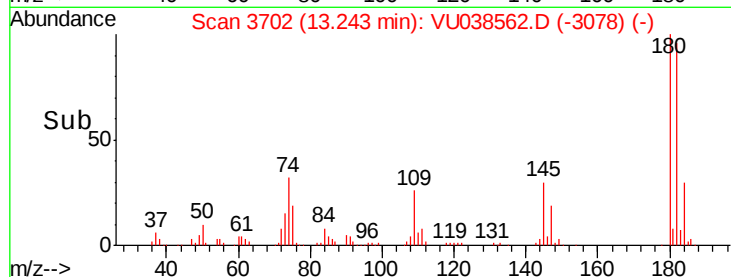
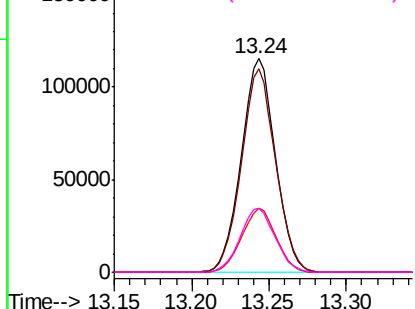
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

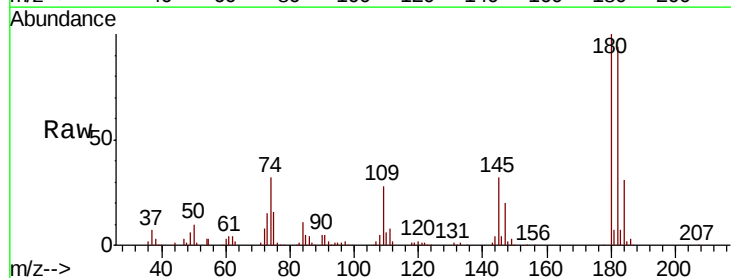
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.804 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.01 min
 Lab File: VU038562.D
 Acq: 05 Jun 2020 10:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.8	113.8
145	31.4	25.3	37.9

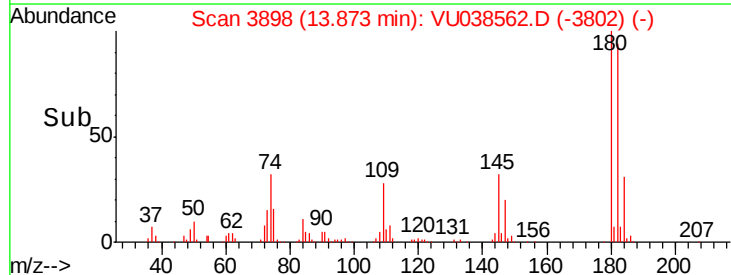
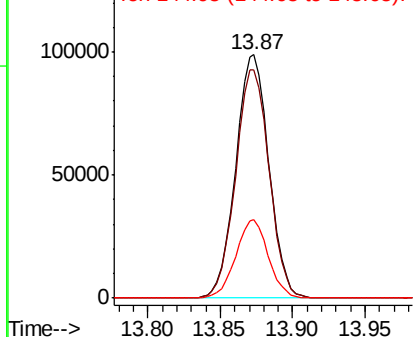


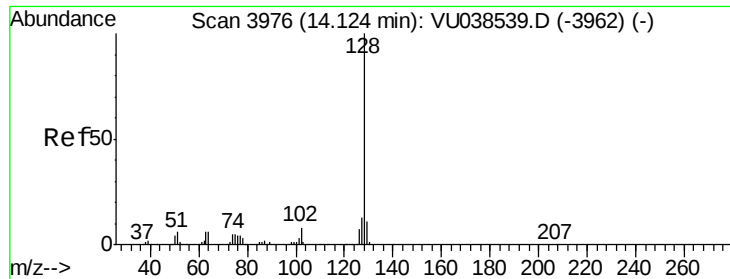
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.776 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

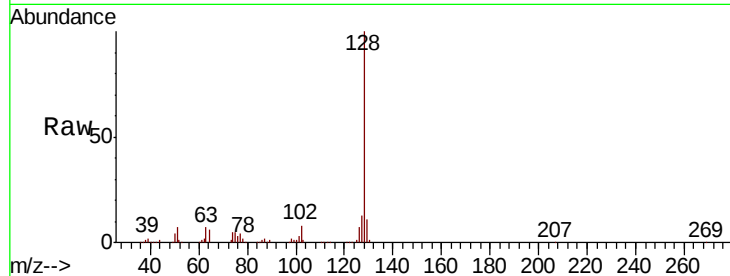
Tot Ion:128 Resp: 310168

Ion Ratio Lower Upper

128 100

129 10.6 8.9 13.3

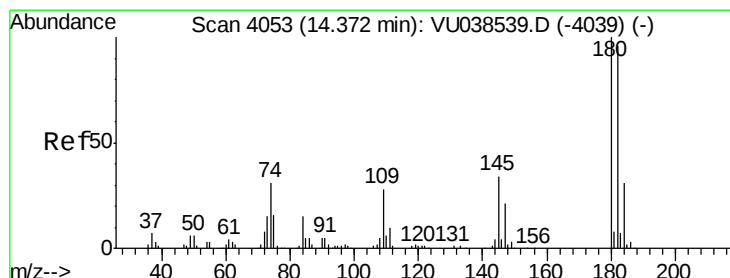
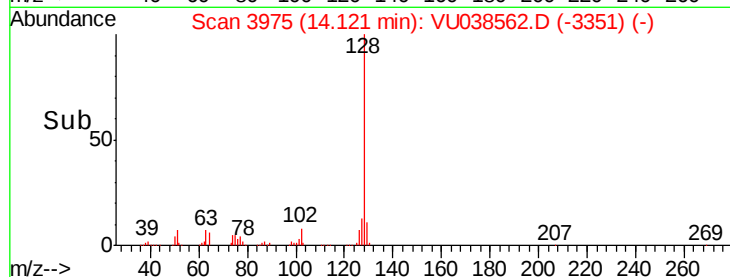
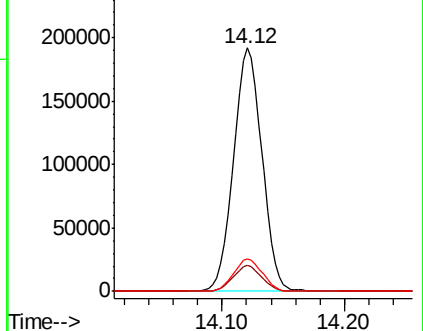
127 13.4 10.2 15.4



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



#70

1,2,3-Trichlorobenzene

Concen: 4.948 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. 0.01 min

Lab File: VU038562.D

Acq: 05 Jun 2020 10:20

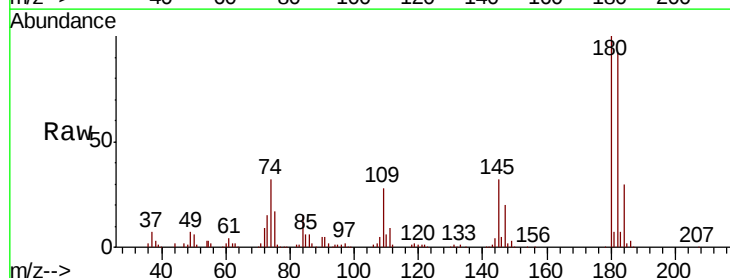
Tgt Ion:180 Resp: 146924

Ion Ratio Lower Upper

180 100

182 94.6 78.7 118.1

145 32.9 27.5 41.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

