

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092820\
 Data File : VU040325.D
 Acq On : 28 Sep 2020 10:28
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Quant Time: Sep 28 10:45:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Sep 26 06:44:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	152108	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	147280	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	77795	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	38295	4.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.20%
7) Chloroethane-d5	1.92	69	36682	5.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.00%
11) 1,1-Dichloroethene-d2	2.58	63	98247	4.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.20%
20) 2-Butanone-d5	4.66	46	211336	63.62	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.24%
24) Chloroform-d	5.08	84	92489	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.40%
26) 1,2-Dichloroethane-d4	5.72	65	55076	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
32) Benzene-d6	5.74	84	169046	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.40%
36) 1,2-Dichloropropane-d6	6.70	67	57388	5.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.20%
41) Toluene-d8	7.90	98	150225	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
43) trans-1,3-Dichloropropene-	8.19	79	24565	4.72	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.40%
46) 2-Hexanone-d5	8.64	63	155396	63.01	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	126.02%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	52692	5.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	59611	4.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	62281	4.126	ug/L 99
3) Chloromethane	1.53	50	60849	4.210	ug/L 98
5) Vinyl chloride	1.61	62	66697	4.552	ug/L 96
6) Bromomethane	1.87	94	31394	4.192	ug/L 100
8) Chloroethane	1.94	64	42067	4.777	ug/L 97
9) Trichlorofluoromethane	2.15	101	94373	4.496	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	61248	4.502	ug/L 97
12) 1,1-Dichloroethene	2.59	96	55591	4.723	ug/L 95
13) Acetone	2.67	43	170912	55.580	ug/L 96
14) Carbon disulfide	2.81	76	151611	4.017	ug/L 100
15) Methyl Acetate	2.97	43	37722	4.888	ug/L 99
16) Methylene chloride	3.06	84	70617	4.581	ug/L 96
17) Methyl tert-butyl Ether	3.38	73	178073	5.019	ug/L 98
18) trans-1,2-Dichloroethene	3.37	96	57535	4.544	ug/L 97
19) 1,1-Dichloroethane	3.89	63	125547	4.817	ug/L 98
21) 2-Butanone	4.74	43	283245	56.419	ug/L 99
22) cis-1,2-Dichloroethene	4.68	96	67211	4.936	ug/L 100

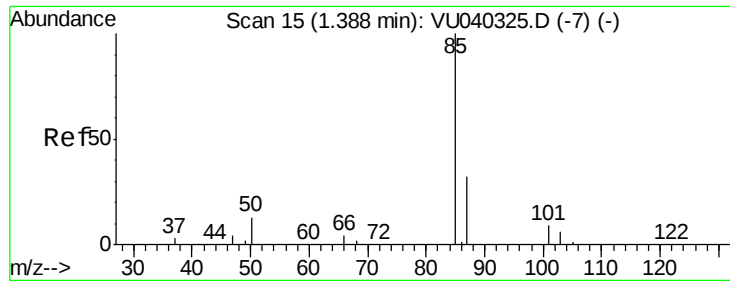
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092820\
 Data File : VU040325.D
 Acq On : 28 Sep 2020 10:28
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Quant Time: Sep 28 10:45:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Sep 26 06:44:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	32317	5.417	ug/L	91
25) Chloroform	5.11	83	127137	4.763	ug/L	100
27) 1,2-Dichloroethane	5.81	62	89262	4.564	ug/L	97
29) 1,1,1-Trichloroethane	5.33	97	105245	4.551	ug/L	99
30) Cyclohexane	5.40	56	104780	4.673	ug/L	98
31) Carbon tetrachloride	5.54	117	90967	4.597	ug/L	96
33) Benzene	5.79	78	258558	4.907	ug/L	100
34) Trichloroethene	6.55	95	66899	4.734	ug/L	97
35) Methylcyclohexane	6.77	83	99836	4.613	ug/L	98
37) 1,2-Dichloropropane	6.80	63	72587	5.088	ug/L	100
38) Bromodichloromethane	7.11	83	93036	4.777	ug/L	99
39) cis-1,3-Dichloropropene	7.61	75	105736	5.025	ug/L	100
40) 4-Methyl-2-pentanone	7.80	43	648058	55.363	ug/L	99
42) Toluene	7.97	91	271185	4.998	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	96407	4.945	ug/L	96
45) 1,1,2-Trichloroethane	8.40	97	53539	5.151	ug/L	95
47) Tetrachloroethene	8.56	164	47546	5.121	ug/L	99
48) 2-Hexanone	8.69	43	483281	56.600	ug/L	99
49) Dibromochloromethane	8.81	129	61217	4.907	ug/L	97
50) 1,2-Dibromoethane	8.92	107	49063	4.896	ug/L #	89
51) Chlorobenzene	9.45	112	175311	5.204	ug/L	98
52) Ethylbenzene	9.57	91	303289	4.919	ug/L	99
53) m,p-Xylene	9.69	106	114094	5.198	ug/L	95
54) o-Xylene	10.10	106	110805	5.297	ug/L	95
55) Styrene	10.11	104	193756	5.327	ug/L	98
56) Isopropylbenzene	10.48	105	303031	5.312	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	71435	5.360	ug/L	98
59) 1,2,3-Trichloropropane	10.82	75	53996	5.109	ug/L	97
61) Bromoform	10.29	173	34473	4.831	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	145872	5.130	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	148584	5.164	ug/L	95
65) 1,2-Dichlorobenzene	12.20	146	139116	5.056	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.99	75	12655	4.301	ug/L	96
67) 1,3,5-Trichlorobenzene	13.21	180	102074	5.105	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	89976	5.225	ug/L	98
69) Naphthalene	14.08	128	168195	4.686	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	81514	5.153	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.126 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

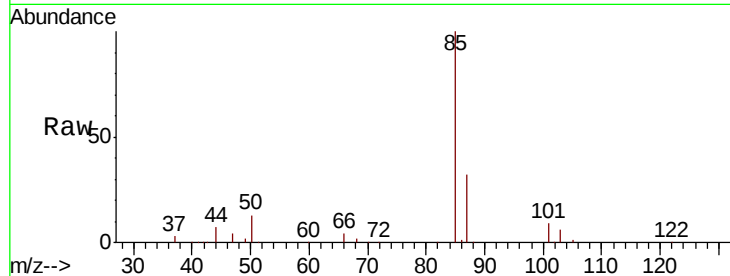
VSTD00522

Tot Ion: 85 Resp: 62281

Ion Ratio Lower Upper

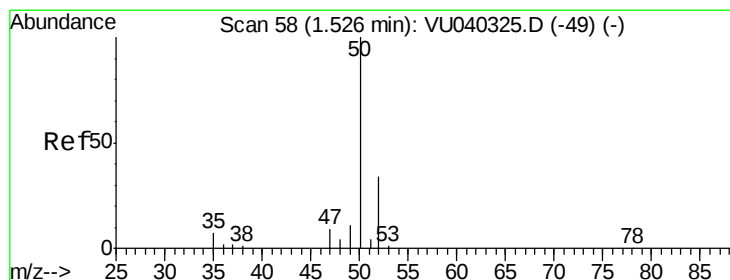
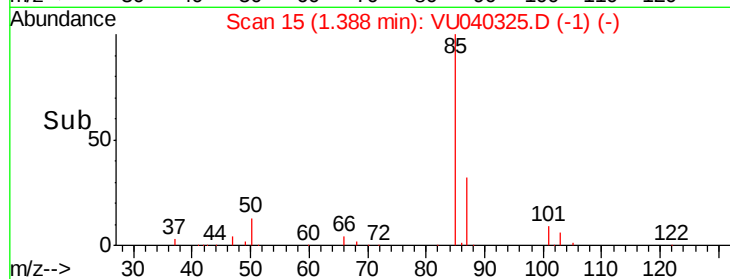
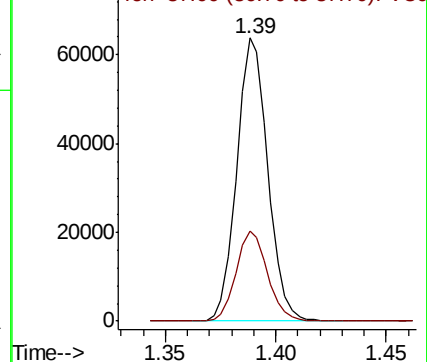
85 100

87 32.1 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.210 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040325.D

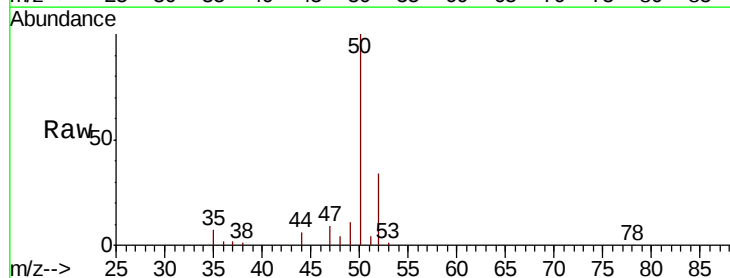
Acq: 28 Sep 2020 10:28

Tgt Ion: 50 Resp: 60849

Ion Ratio Lower Upper

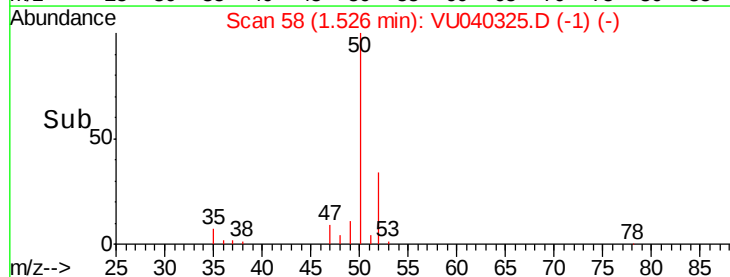
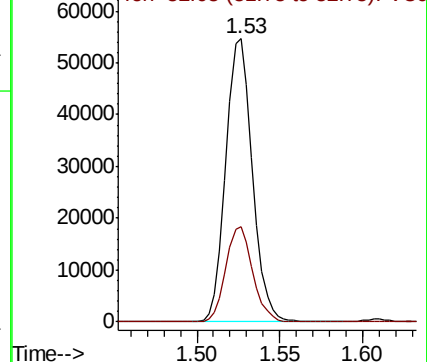
50 100

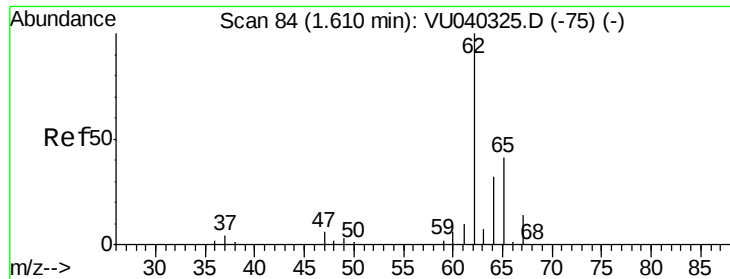
52 33.7 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.552 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

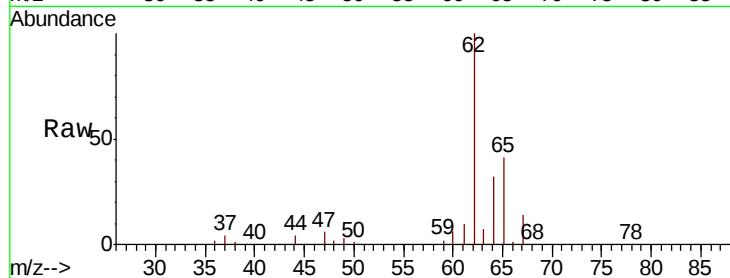
VSTD00522

Tot Ion: 62 Resp: 66697

Ion Ratio Lower Upper

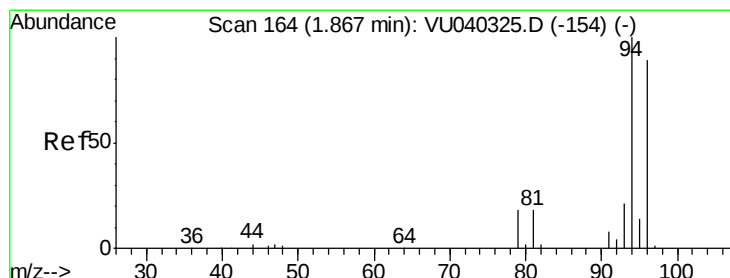
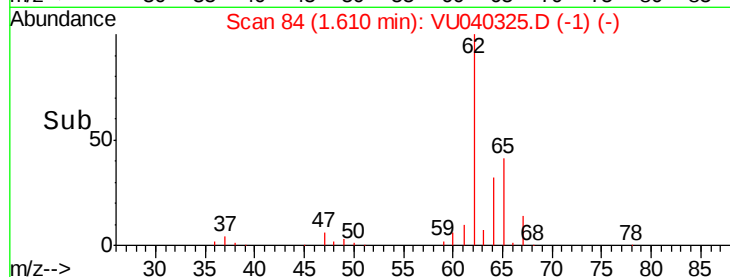
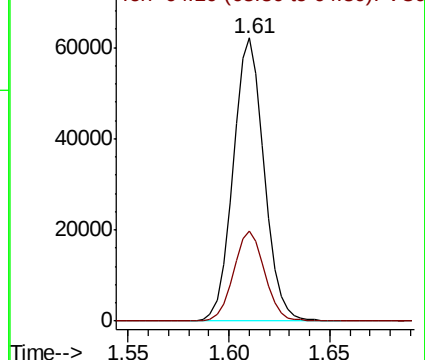
62 100

64 31.8 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.192 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040325.D

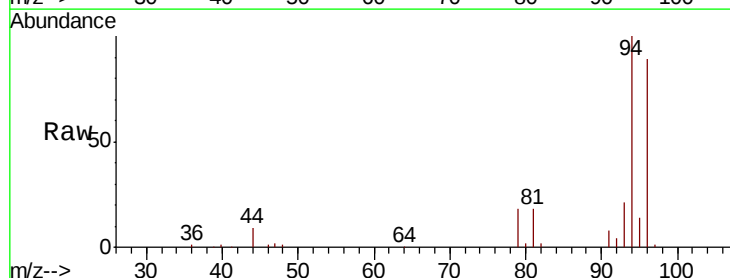
Acq: 28 Sep 2020 10:28

Tgt Ion: 94 Resp: 31394

Ion Ratio Lower Upper

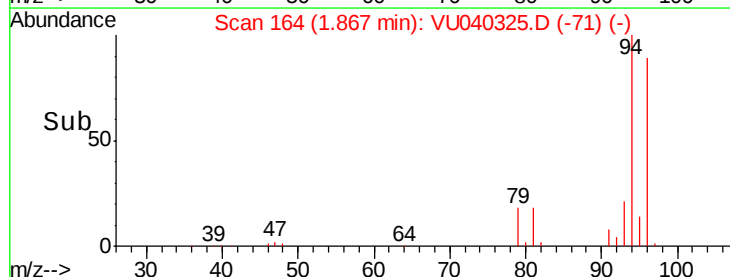
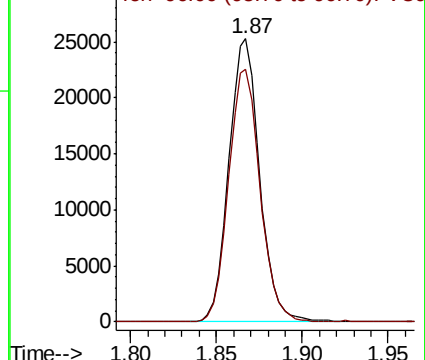
94 100

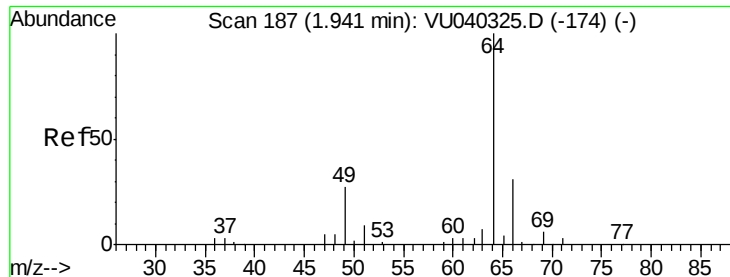
96 89.2 62.3 115.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.777 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

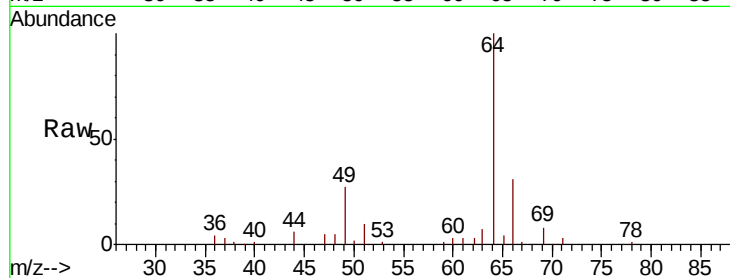
VSTD00522

Tot Ion: 64 Resp: 42067

Ion Ratio Lower Upper

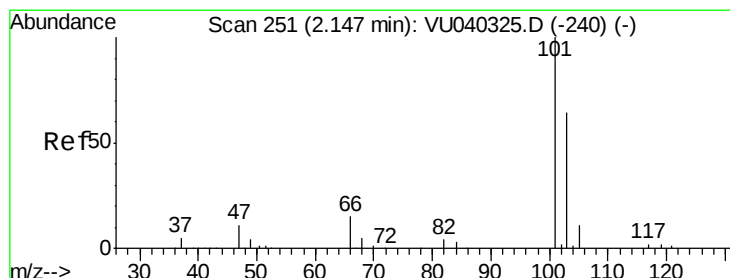
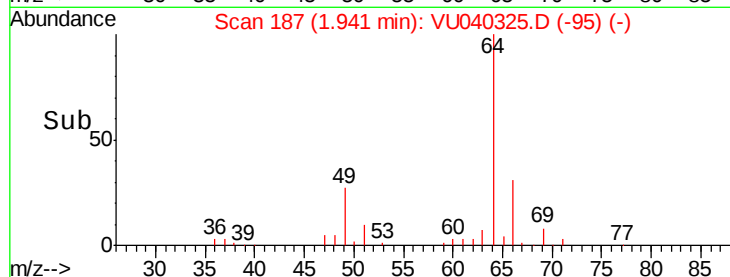
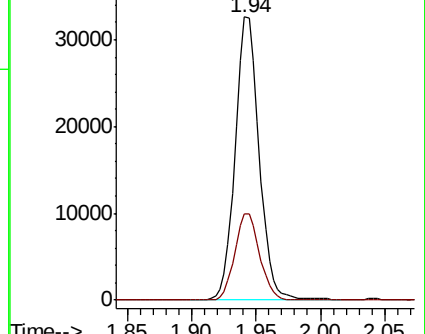
64 100

66 30.7 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU040325.D (-174) (-)

Ion 66.05 (65.75 to 66.75): VU040325.D (-174) (-)



#9

Trichlorofluoromethane

Concen: 4.496 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU040325.D

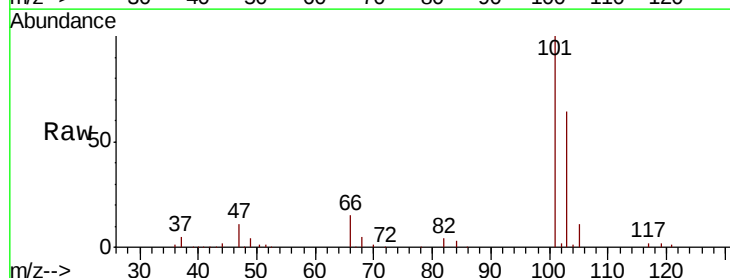
Acq: 28 Sep 2020 10:28

Tgt Ion:101 Resp: 94373

Ion Ratio Lower Upper

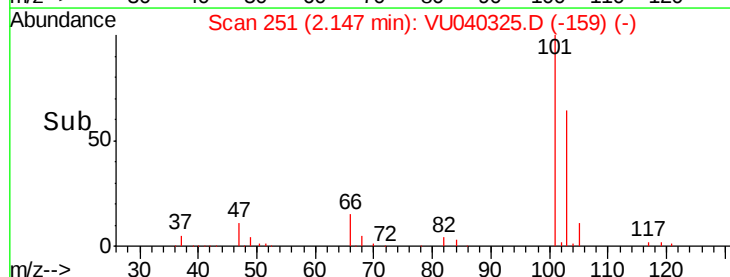
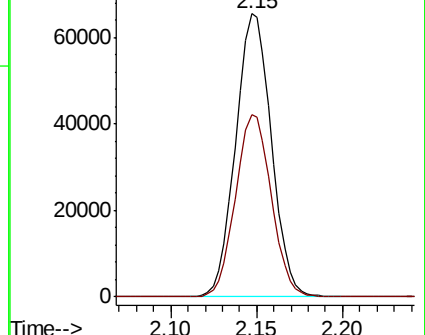
101 100

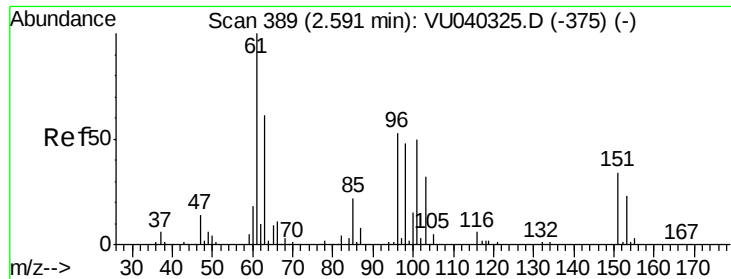
103 64.5 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU040325.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU040325.D (-240) (-)





#10

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

Concen: 4.502 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

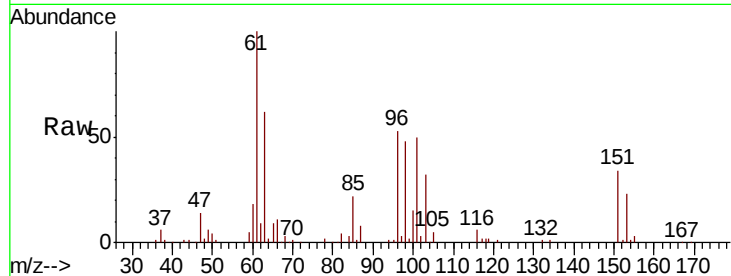
Tot Ion:101 Resp: 61248

Ion Ratio Lower Upper

101 100

85 46.0 37.7 56.5

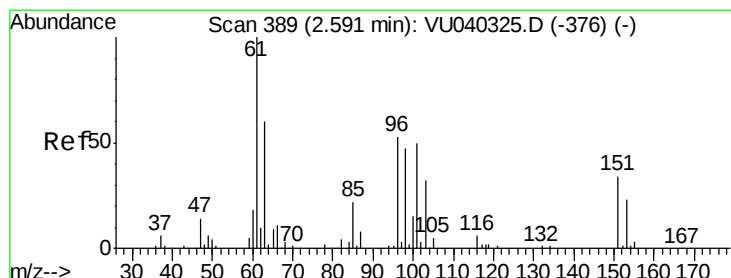
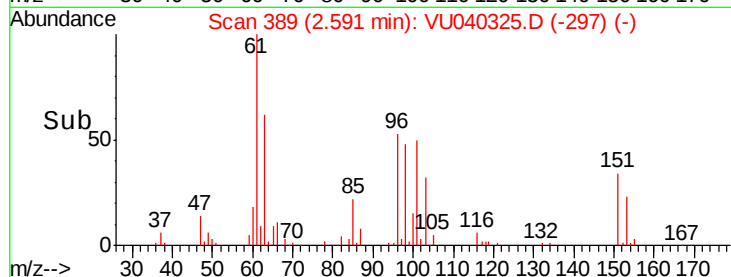
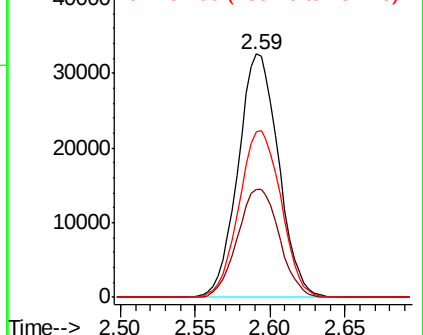
151 71.2 53.9 80.9



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: 4.723 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

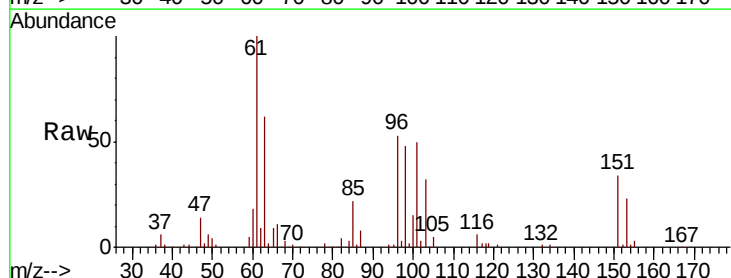
Tgt Ion: 96 Resp: 55591

Ion Ratio Lower Upper

96 100

61 189.2 138.3 256.8

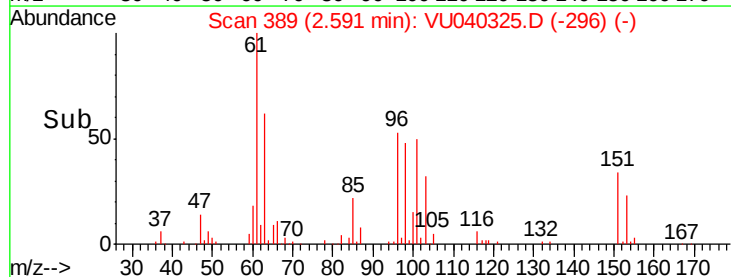
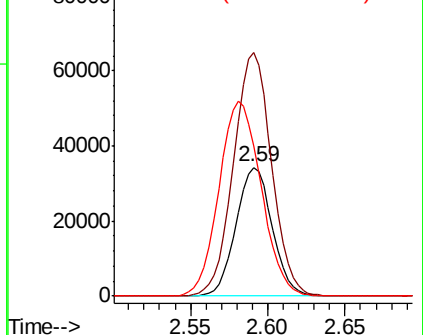
63 116.7 77.6 144.2

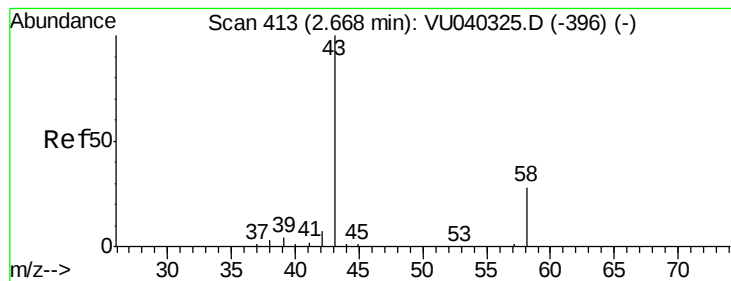


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 55.580 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

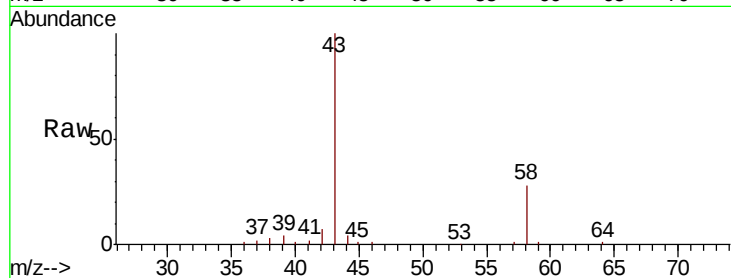
VSTD00522

Tot Ion: 43 Resp: 170912

Ion Ratio Lower Upper

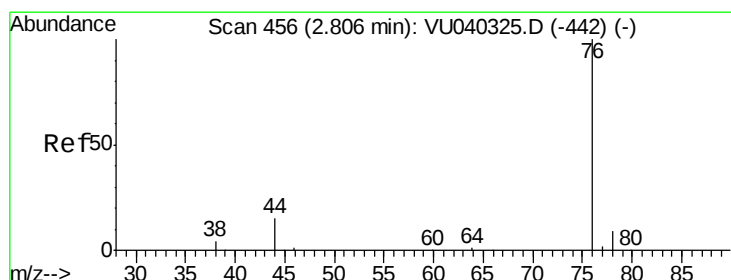
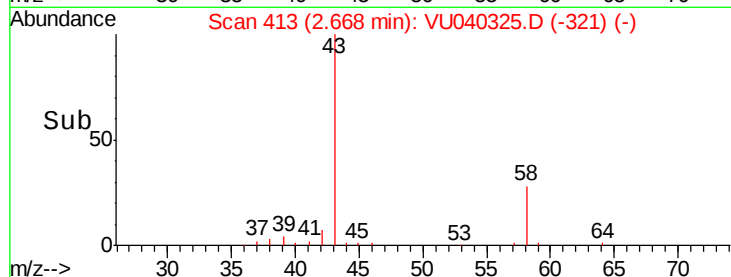
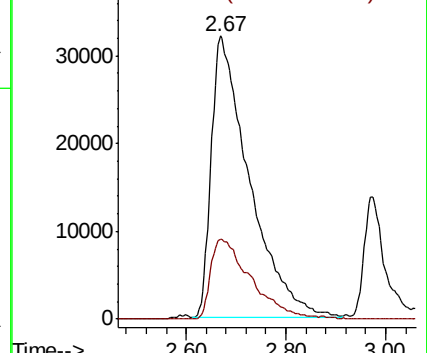
43 100

58 29.7 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.017 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040325.D

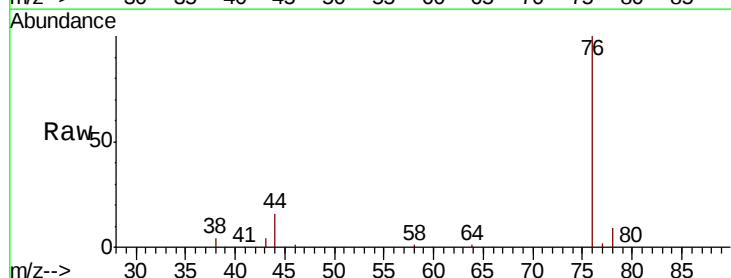
Acq: 28 Sep 2020 10:28

Tgt Ion: 76 Resp: 151611

Ion Ratio Lower Upper

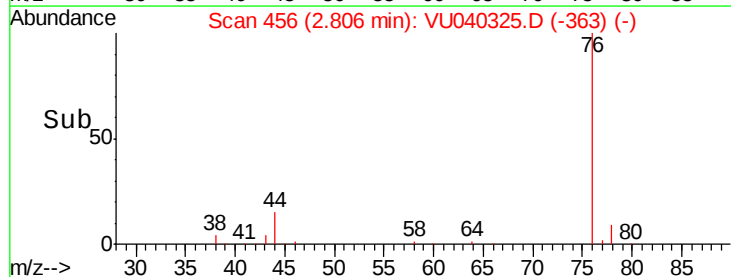
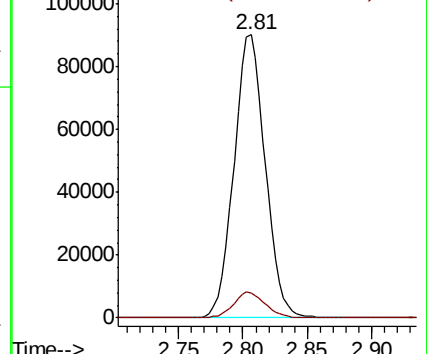
76 100

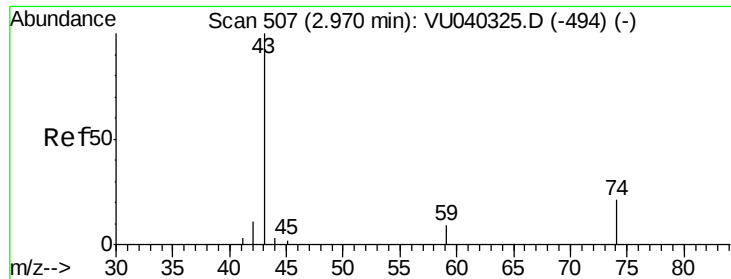
78 8.9 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

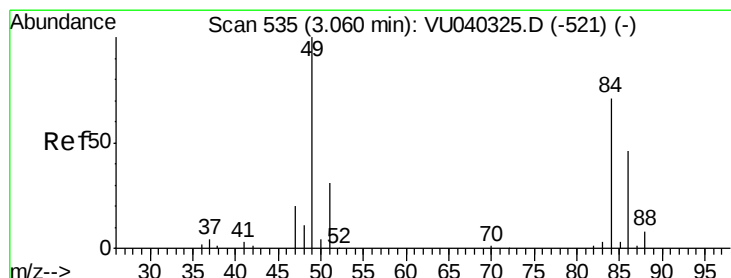
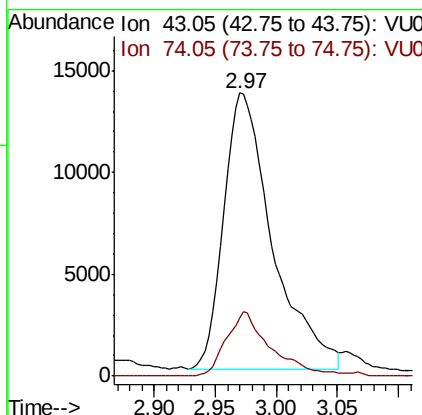
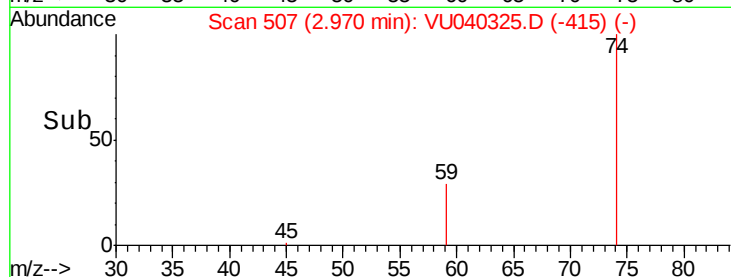
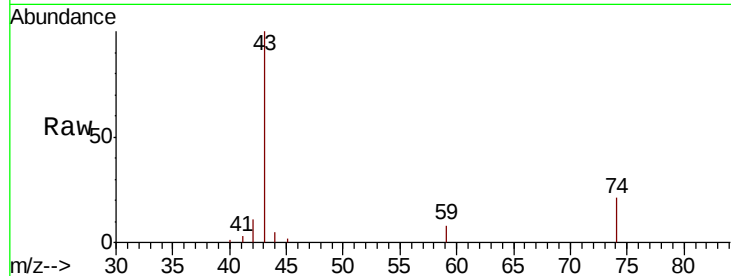




#15
Methvl Acetate
Concen: 4.888 ug/L
RT: 2.97 min Scan# 507
Delta R.T. -0.00 min
Lab File: VU040325.D
Acq: 28 Sep 2020 10:28

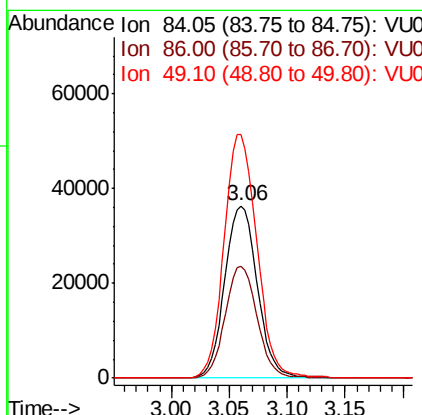
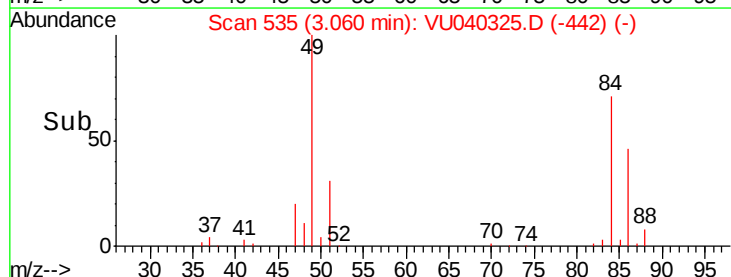
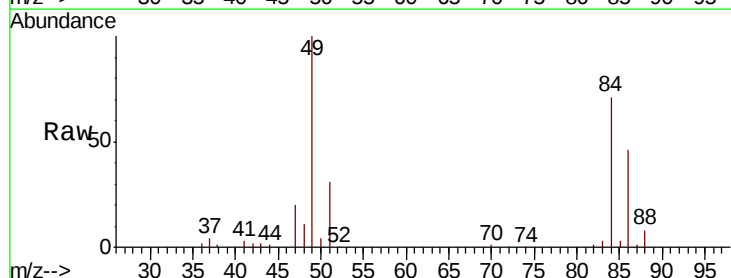
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

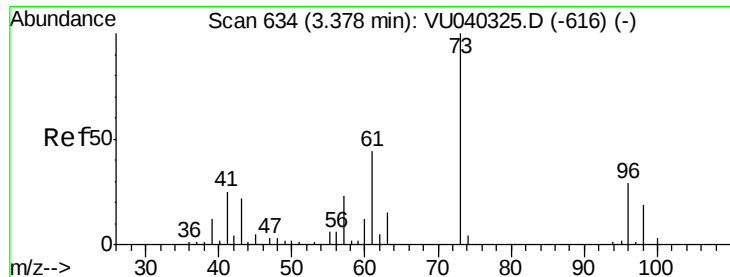
Tot Ion: 43 Resp: 37722
Ion Ratio Lower Upper
43 100
74 21.3 17.4 26.0



#16
Methylene chloride
Concen: 4.581 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU040325.D
Acq: 28 Sep 2020 10:28

Tgt Ion: 84 Resp: 70617
Ion Ratio Lower Upper
84 100
86 64.9 45.2 84.0
49 141.2 104.0 193.2

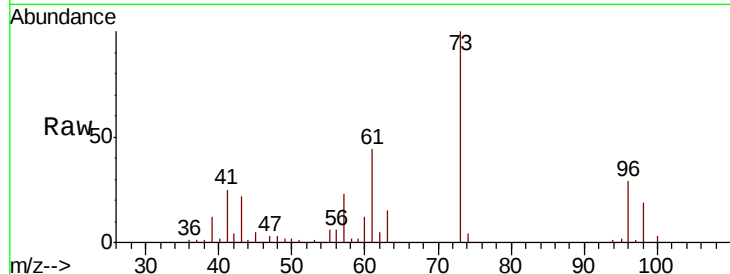




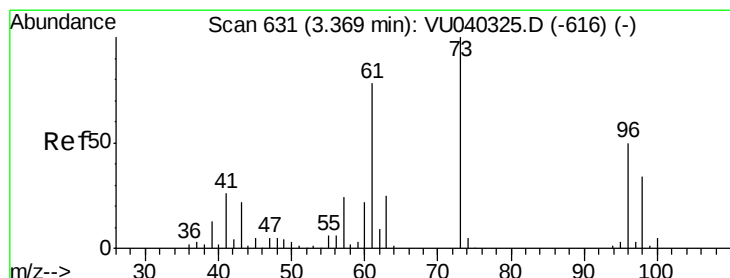
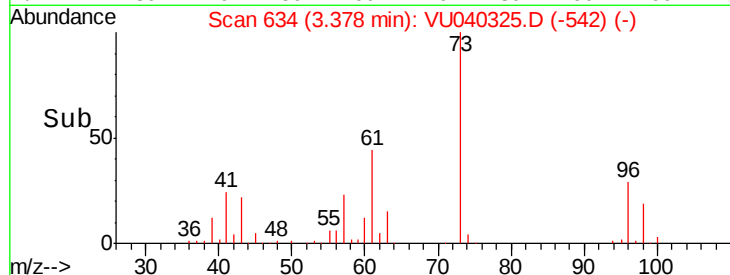
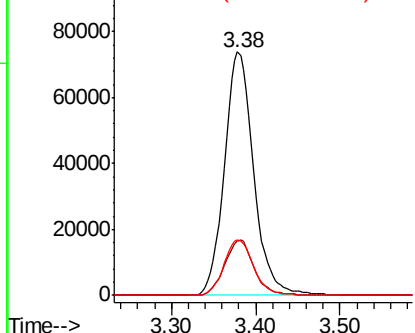
#17
Methvl tert-butvl Ether
Concen: 5.019 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU040325.D
Acq: 28 Sep 2020 10:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tot Ion: 73 Resp: 178073
Ion Ratio Lower Upper
73 100
43 22.8 19.1 28.7
57 23.2 18.3 27.5

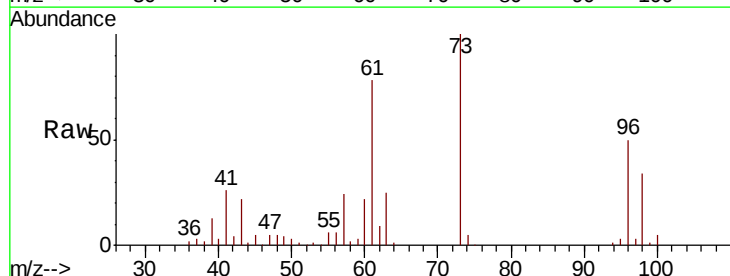


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

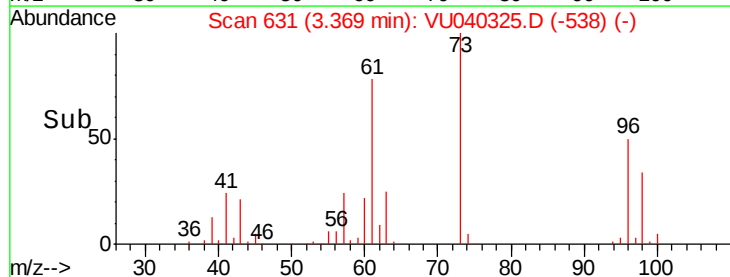
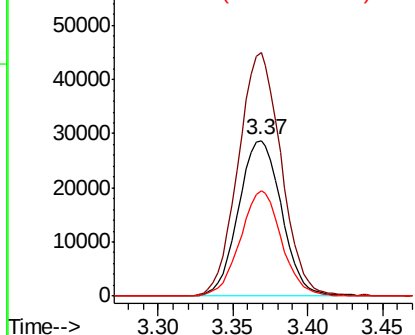


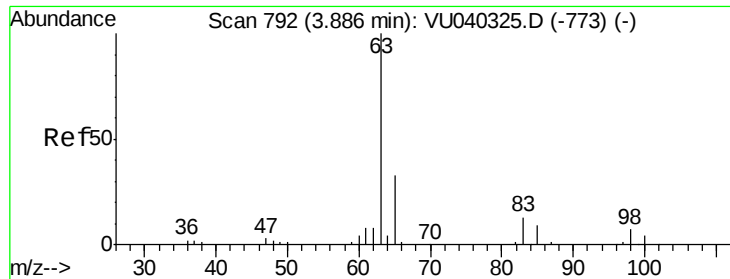
#18
trans-1,2-Dichloroethene
Concen: 4.544 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU040325.D
Acq: 28 Sep 2020 10:28

Tgt Ion: 96 Resp: 57535
Ion Ratio Lower Upper
96 100
61 156.4 110.5 205.3
98 67.3 43.2 80.2



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

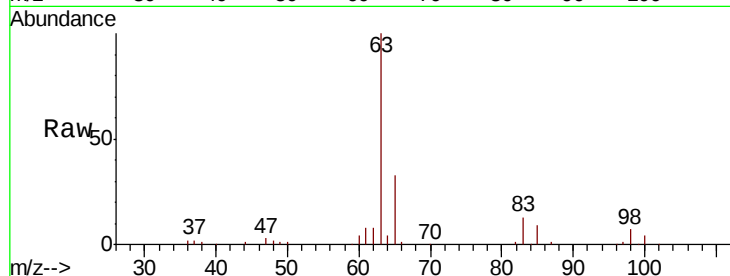




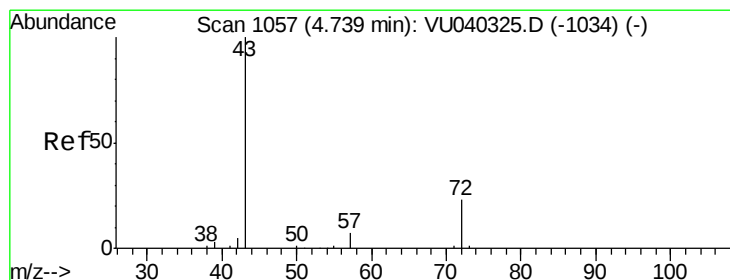
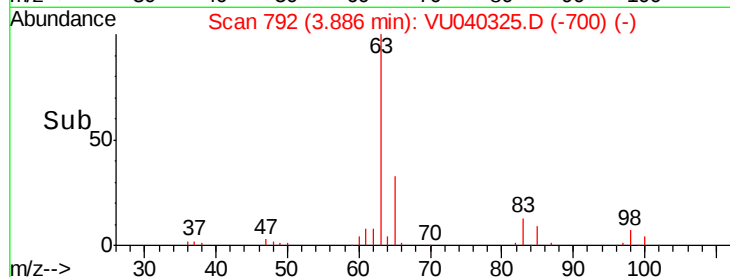
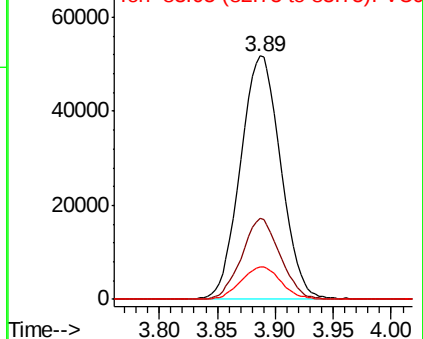
#19
 1,1-Dichloroethane
 Concen: 4.817 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tot Ion: 63 Resp: 125547
 Ion Ratio Lower Upper
 63 100
 65 33.2 22.2 41.2
 83 13.1 9.4 17.6

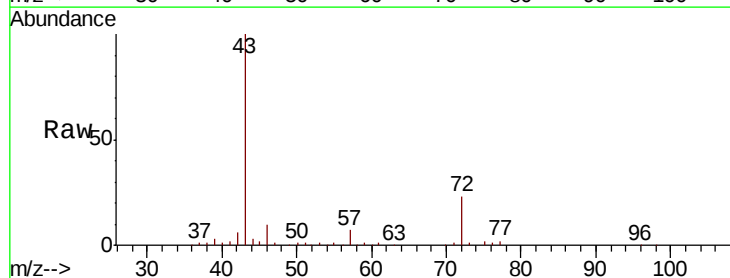


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

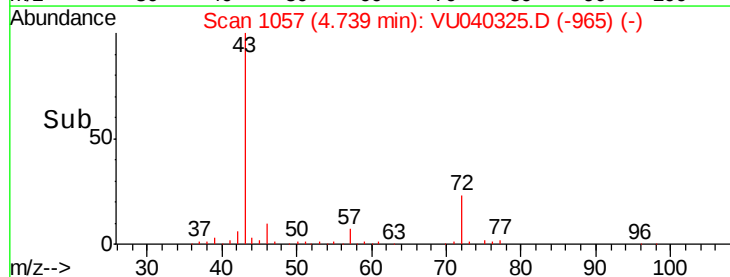
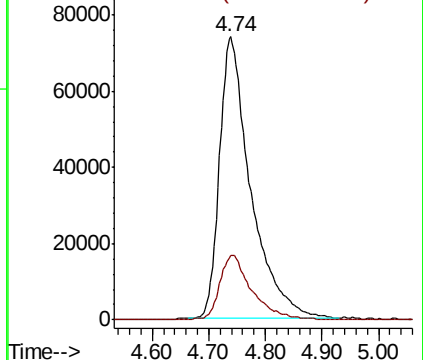


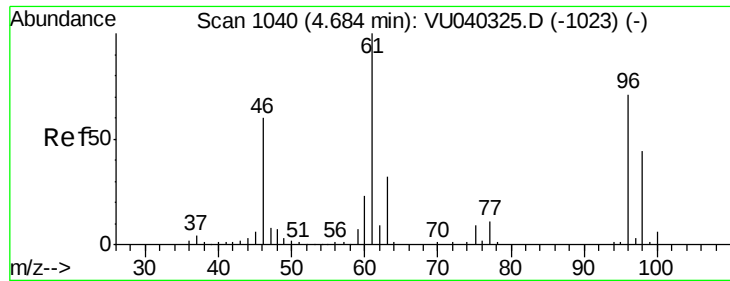
#21
 2-Butanone
 Concen: 56.419 ug/L
 RT: 4.74 min Scan# 1057
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Tgt Ion: 43 Resp: 283245
 Ion Ratio Lower Upper
 43 100
 72 23.9 11.7 35.0



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.936 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

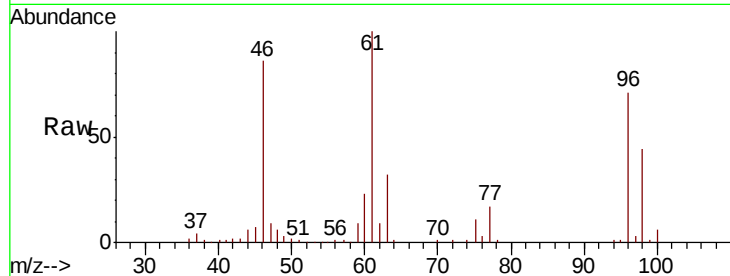
Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tot Ion: 96 Resp: 67211

Ion	Ratio	Lower	Upper
96	100		
61	141.4	98.8	183.4
68	0.0	0.0	0.0

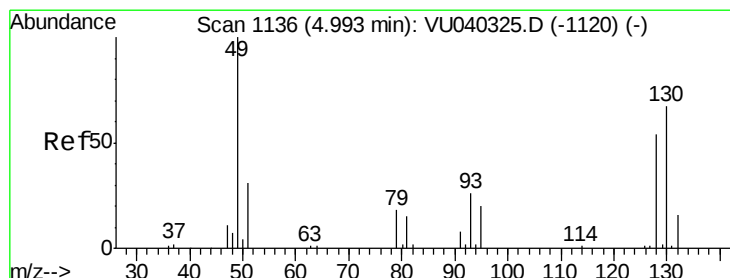
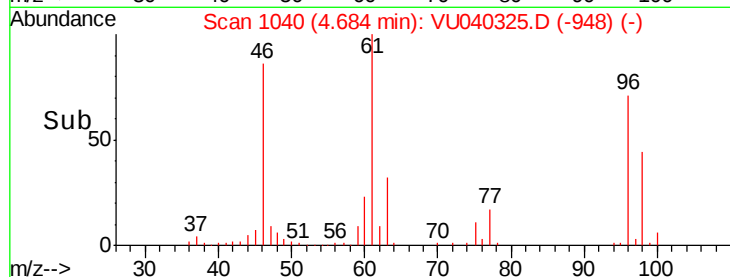
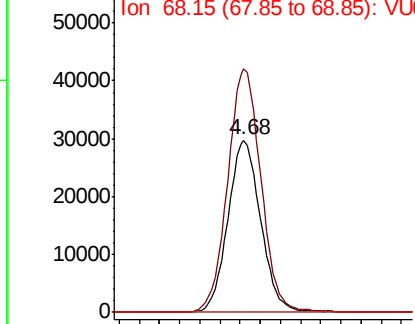


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.417 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Tgt Ion: 128 Resp: 32317

Ion	Ratio	Lower	Upper
128	100		
49	185.7	143.4	266.4
130	124.6	89.5	166.3
51	57.2	51.0	76.4

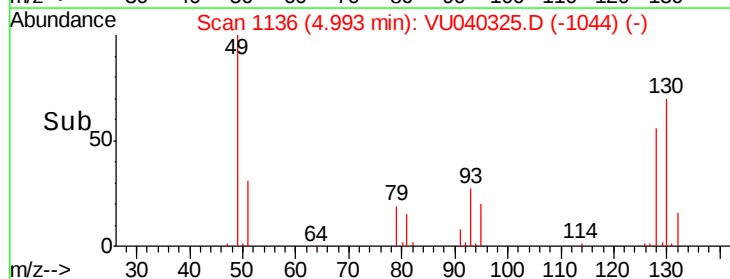
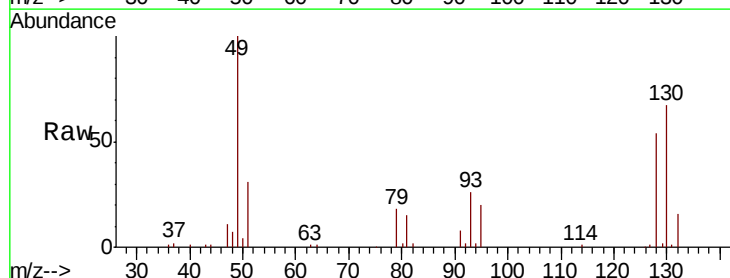
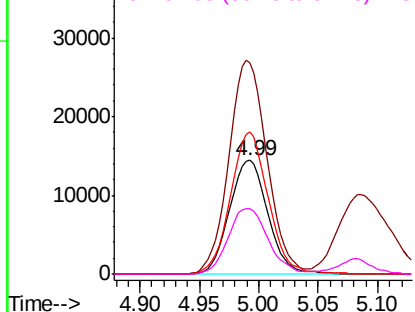
Abundance

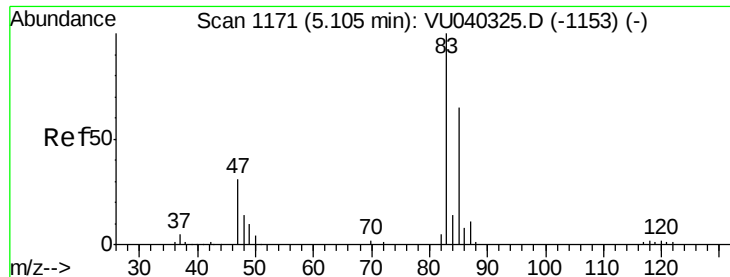
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

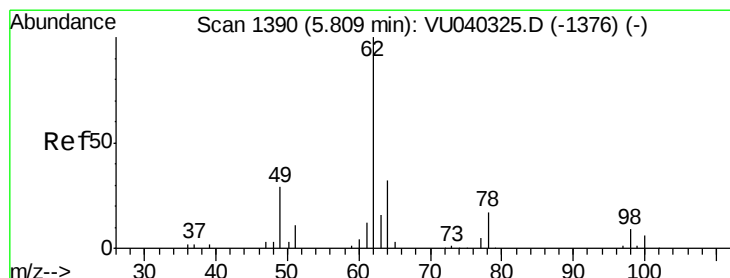
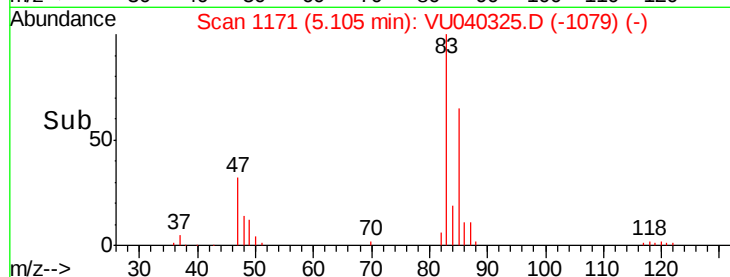
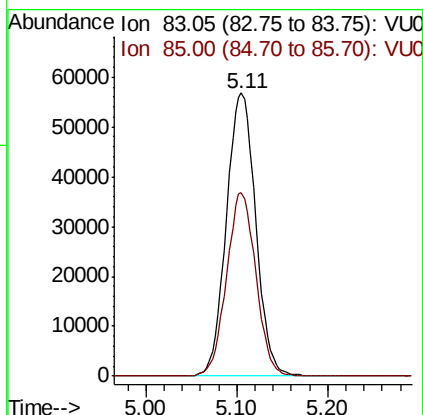
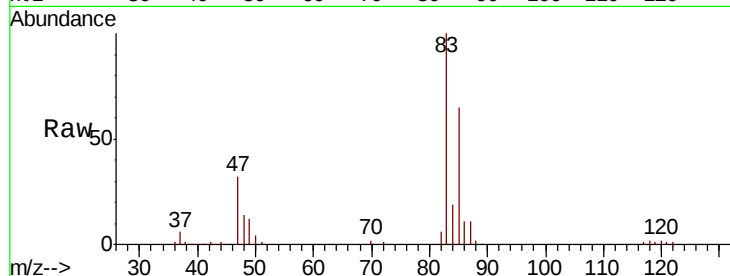




#25
Chloroform
Concen: 4.763 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU040325.D
Acq: 28 Sep 2020 10:28

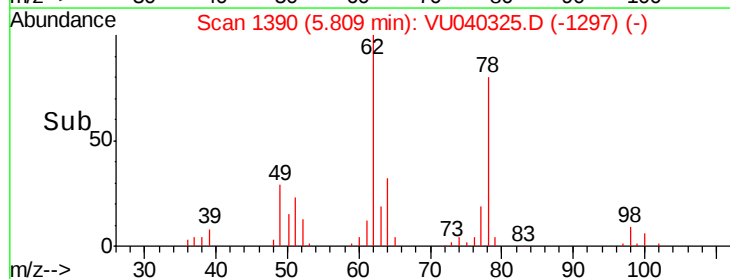
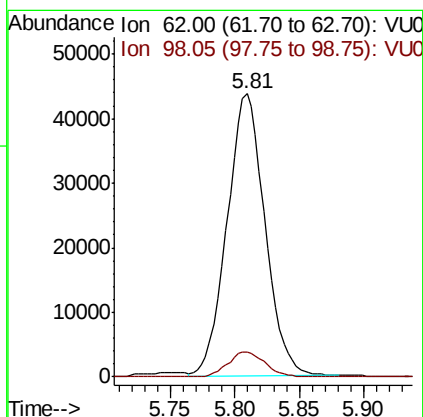
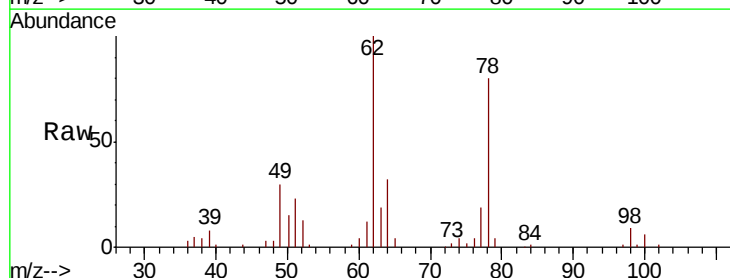
Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

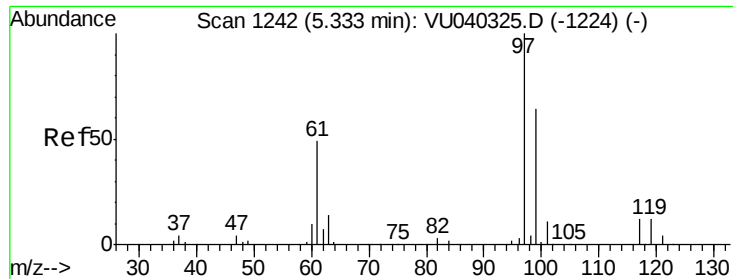
Tot Ion: 83 Resp: 127137
Ion Ratio Lower Upper
83 100
85 64.7 45.3 84.1



#27
1,2-Dichloroethane
Concen: 4.564 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU040325.D
Acq: 28 Sep 2020 10:28

Tgt Ion: 62 Resp: 89262
Ion Ratio Lower Upper
62 100
98 8.8 6.1 9.1

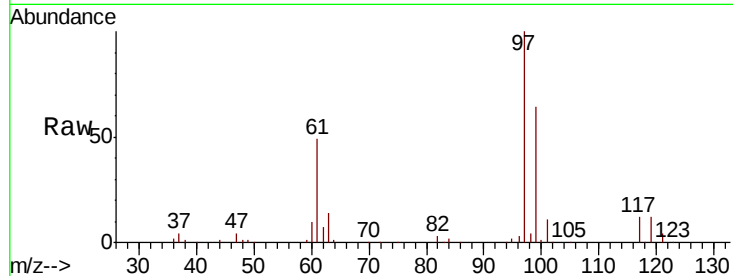




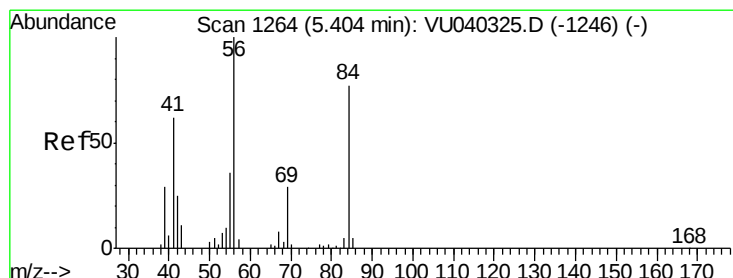
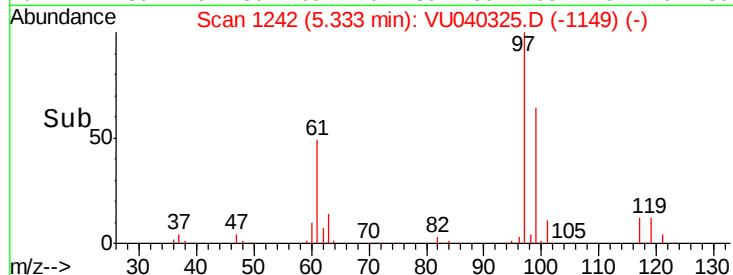
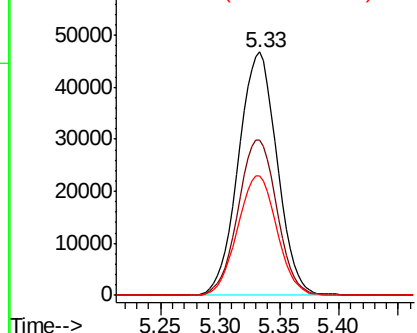
#29
 1,1,1-Trichloroethane
 Concen: 4.551 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tot Ion: 97 Resp: 105245
 Ion Ratio Lower Upper
 97 100
 99 64.4 50.9 76.3
 61 50.1 39.5 59.3

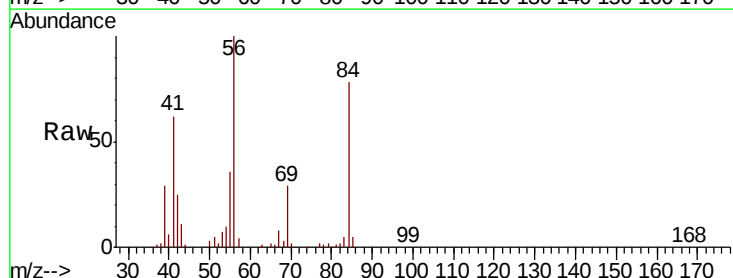


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

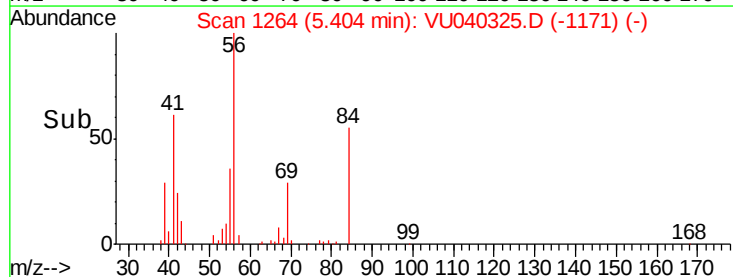
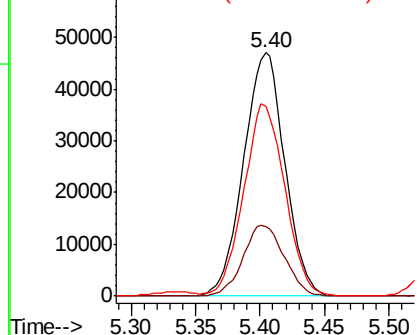


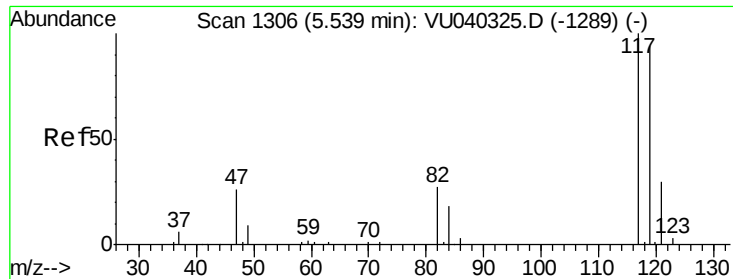
#30
 Cyclohexane
 Concen: 4.673 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Tgt Ion: 56 Resp: 104780
 Ion Ratio Lower Upper
 56 100
 69 29.1 24.1 36.1
 84 78.9 65.0 97.4



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: 4.597 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

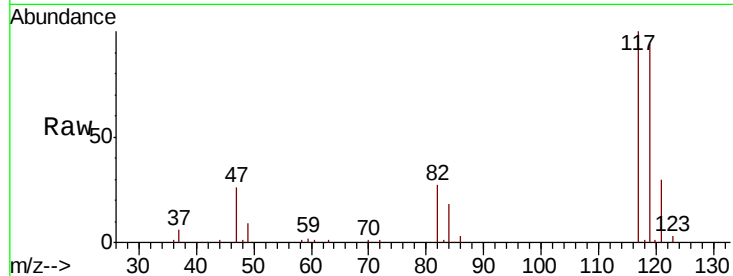
VSTD00522

Tot Ion:117 Resp: 90967

Ion Ratio Lower Upper

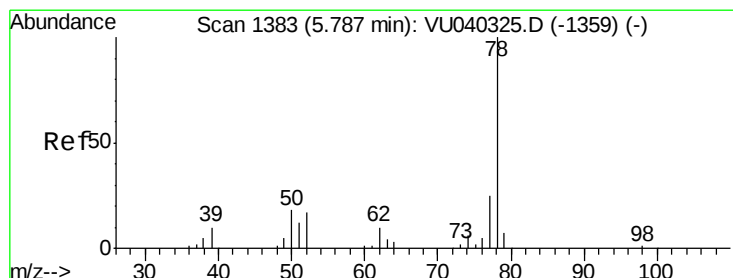
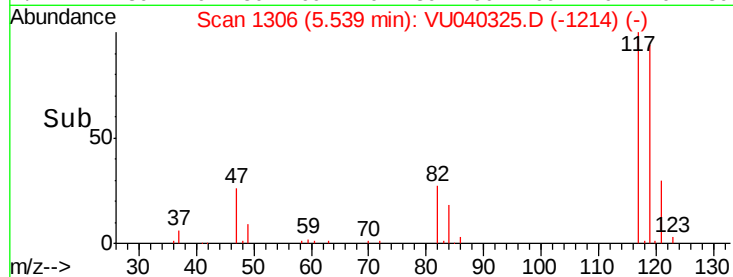
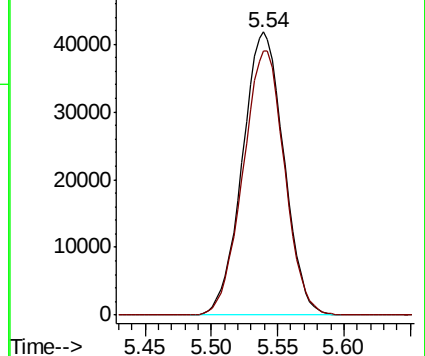
117 100

119 93.5 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.907 ug/L

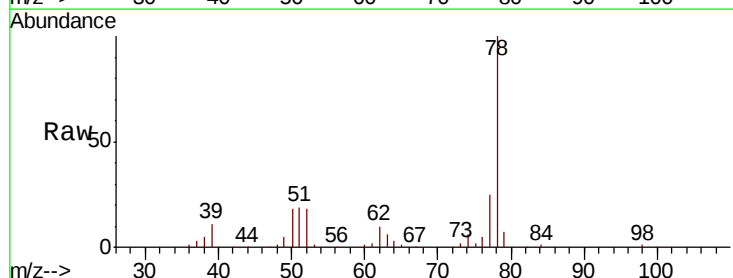
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

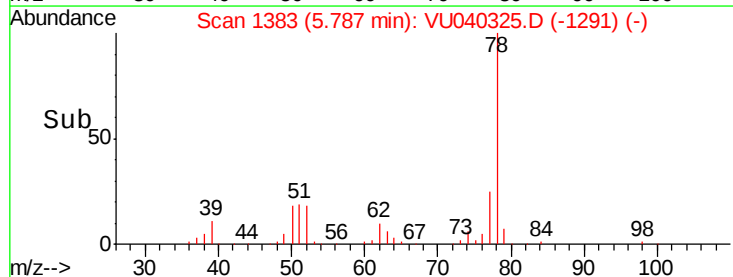
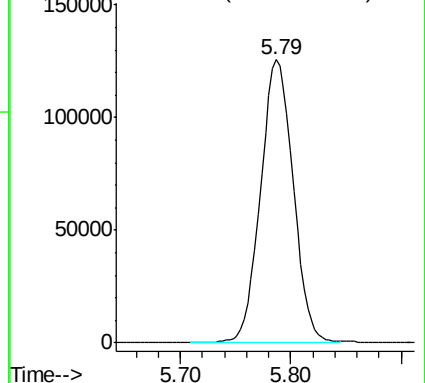
Lab File: VU040325.D

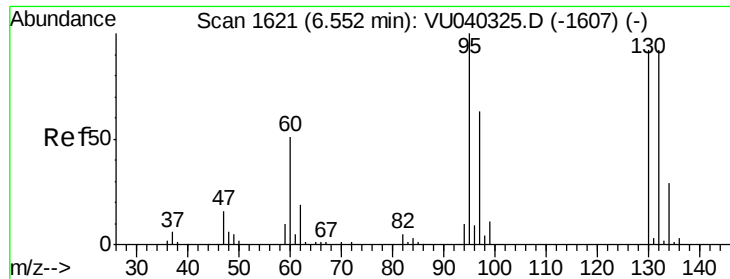
Acq: 28 Sep 2020 10:28

Tgt Ion: 78 Resp: 258558



Abundance Ion 78.10 (77.80 to 78.80): VU0

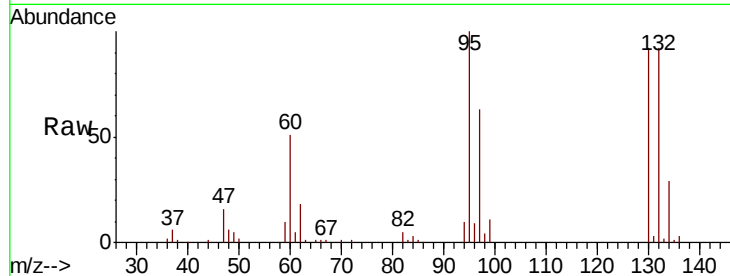




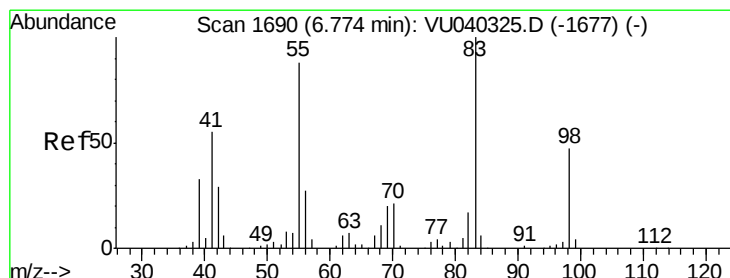
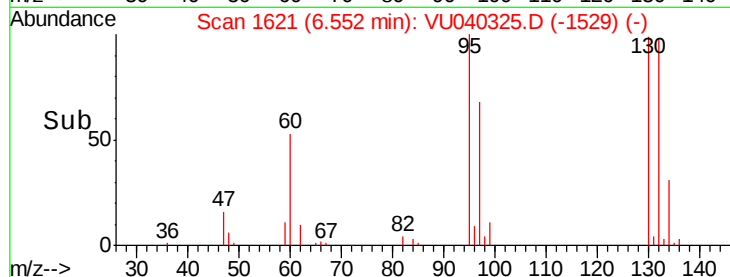
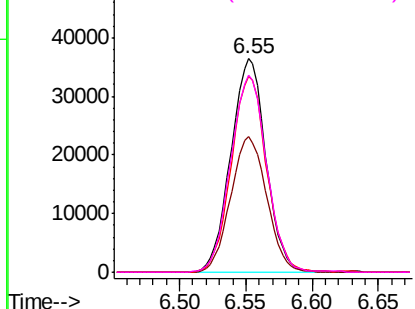
#34
 Trichloroethene
 Concen: 4.734 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tot Ion: 95 Resp: 66899
 Ion Ratio Lower Upper
 95 100
 97 63.5 43.3 80.5
 132 91.6 59.4 110.4
 130 92.3 64.8 120.4

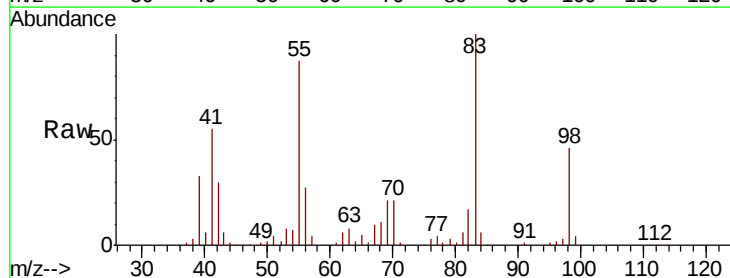


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

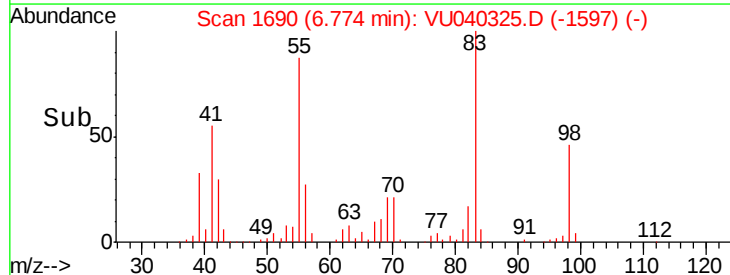
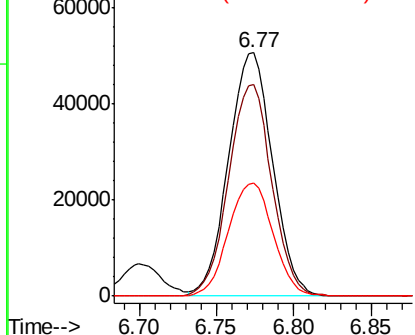


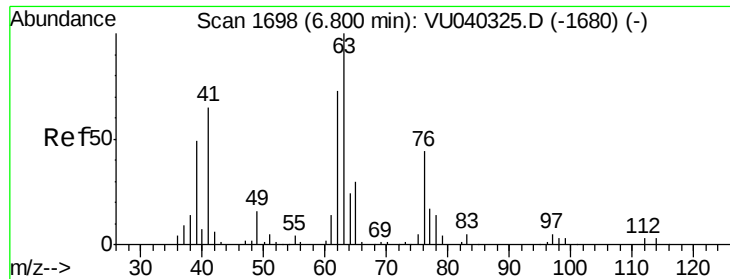
#35
 Methylcyclohexane
 Concen: 4.613 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Tgt Ion: 83 Resp: 99836
 Ion Ratio Lower Upper
 83 100
 55 85.5 70.5 105.7
 98 47.4 37.8 56.6



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

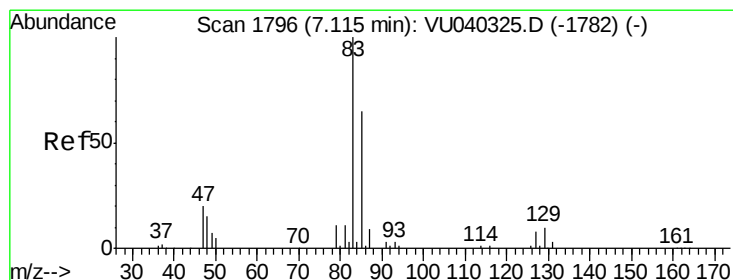
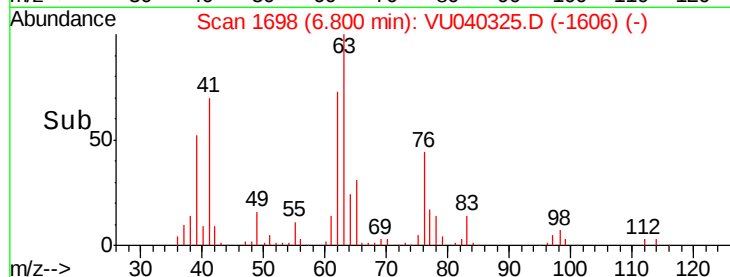
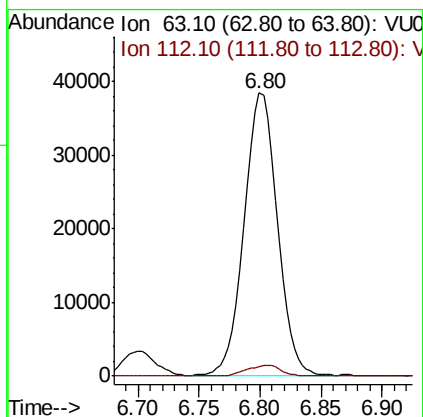
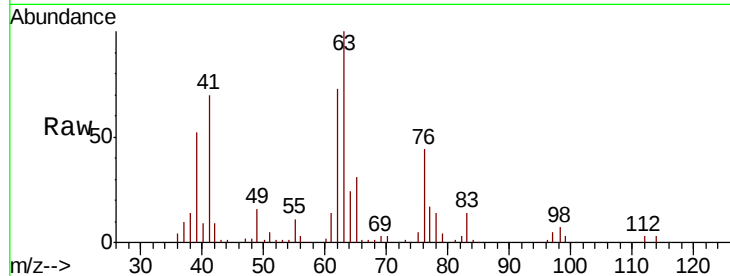




#37
 1,2-Dichloropropane
 Concen: 5.088 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

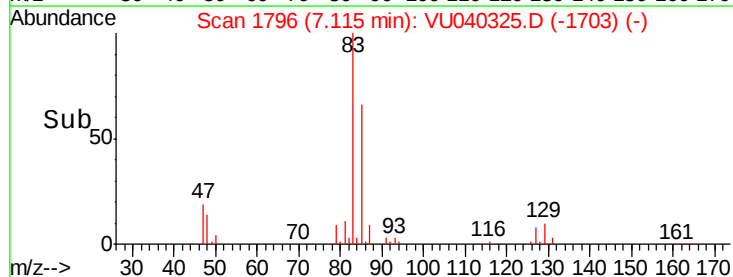
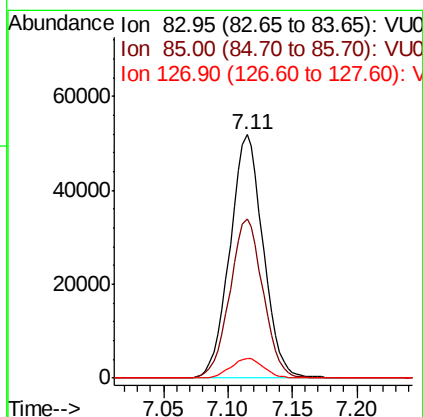
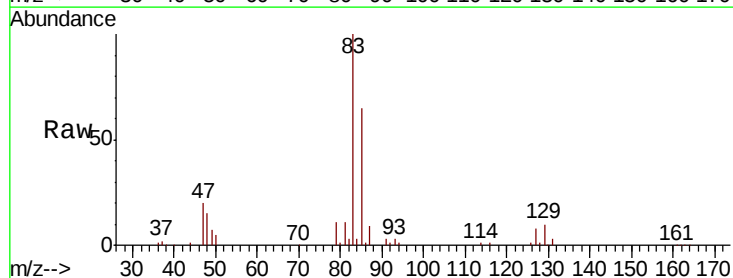
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

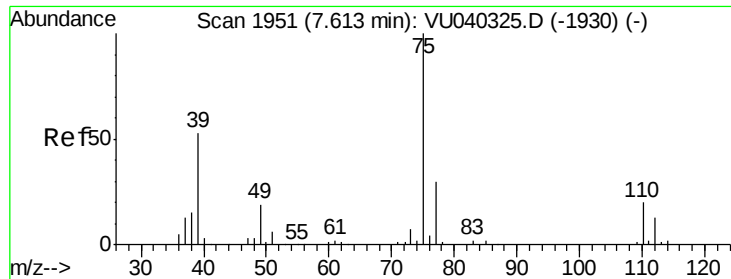
Tot Ion: 63 Resp: 72587
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.2 4.8



#38
 Bromodichloromethane
 Concen: 4.777 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Tgt Ion: 83 Resp: 93036
 Ion Ratio Lower Upper
 83 100
 85 65.4 45.1 83.9
 127 8.1 6.7 10.1

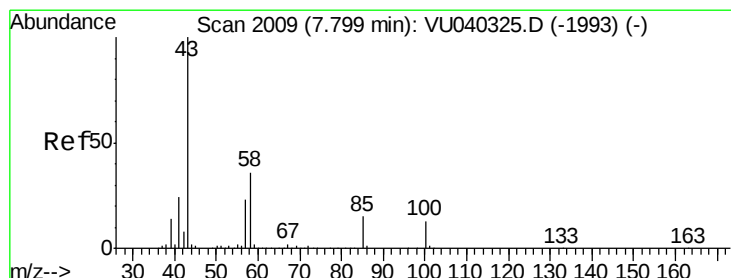
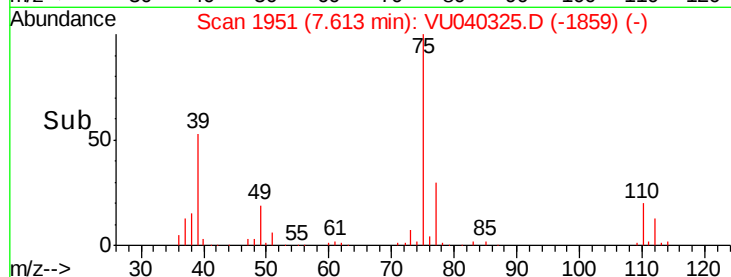
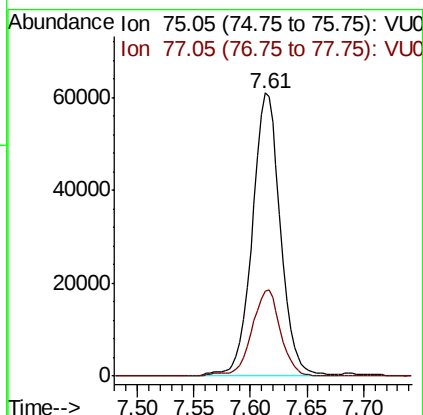
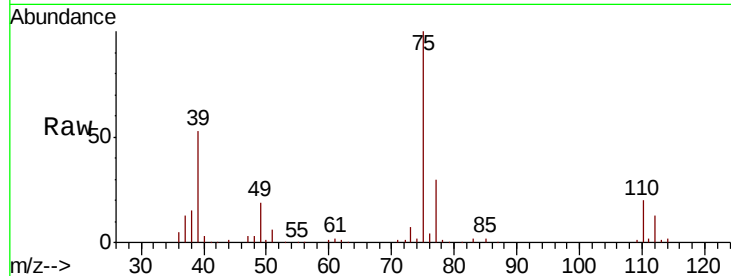




#39
 cis-1,3-Dichloropropene
 Concen: 5.025 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

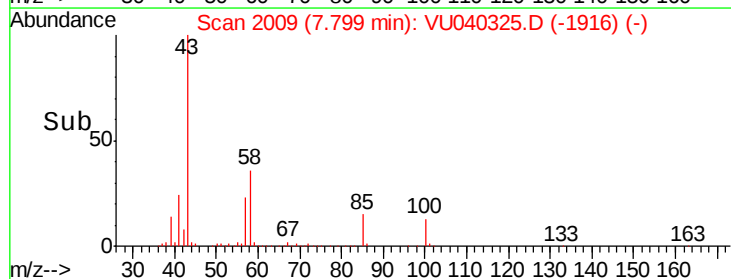
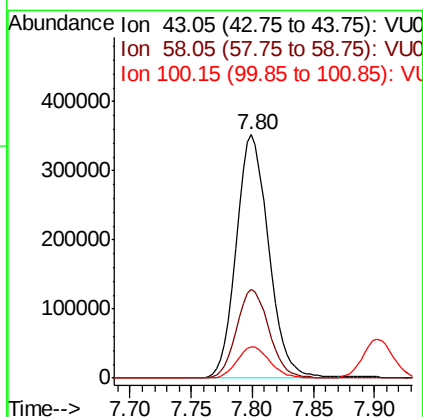
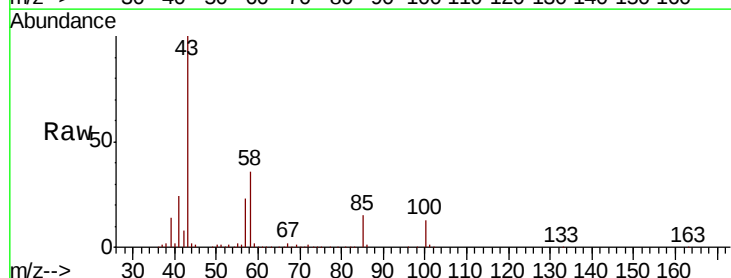
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

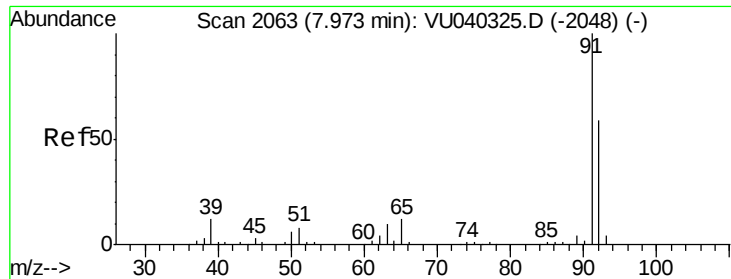
Tot Ion: 75 Resp: 105736
 Ion Ratio Lower Upper
 75 100
 77 30.2 21.1 39.3



#40
 4-Methyl-2-pentanone
 Concen: 55.363 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Tgt Ion: 43 Resp: 648058
 Ion Ratio Lower Upper
 43 100
 58 36.5 28.7 43.1
 100 13.1 10.2 15.2





#42

Toluene

Concen: 4.998 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

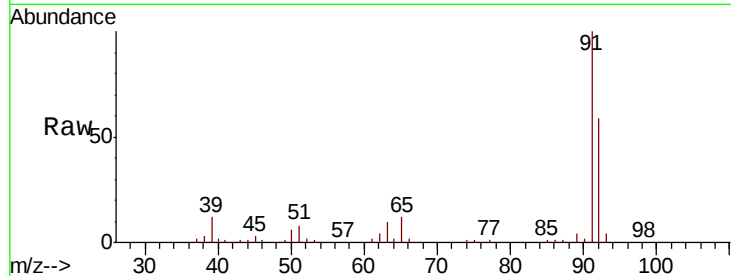
VSTD00522

Tot Ion: 91 Resp: 271185

Ion Ratio Lower Upper

91 100

92 59.1 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU040325.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU040325.D (-2048) (-)

7.97

150000

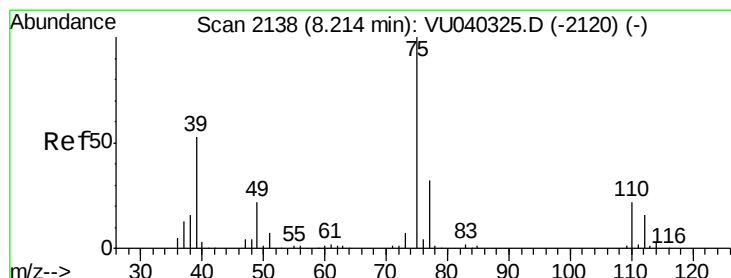
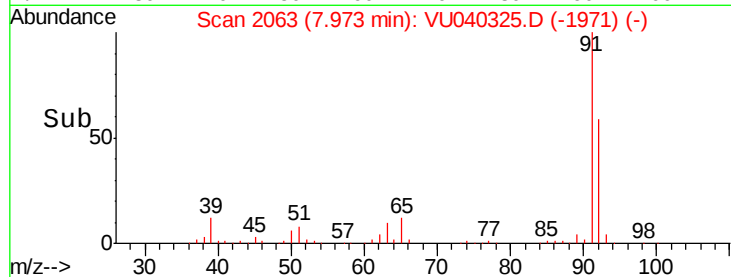
100000

50000

0

7.90 7.95 8.00 8.05

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.945 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040325.D

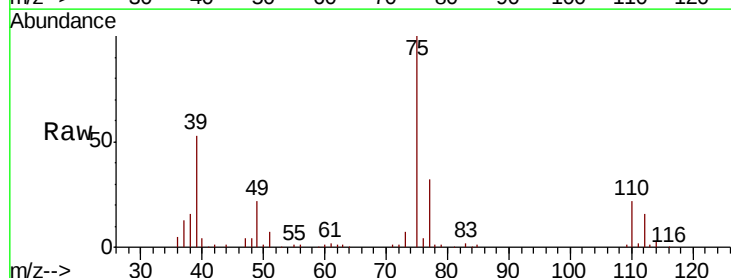
Acq: 28 Sep 2020 10:28

Tgt Ion: 75 Resp: 96407

Ion Ratio Lower Upper

75 100

77 32.1 23.9 44.3



Abundance Ion 75.05 (74.75 to 75.75): VU040325.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU040325.D (-2120) (-)

8.21

60000

50000

40000

30000

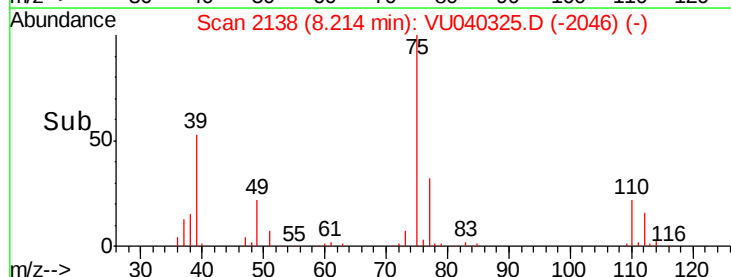
20000

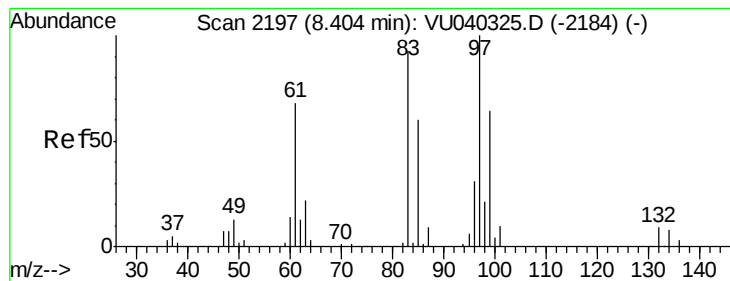
10000

0

8.10 8.15 8.20 8.25 8.30

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.151 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

Tot Ion: 97 Resp: 53539

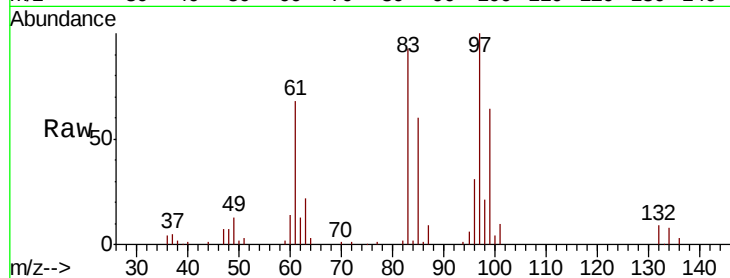
Ion Ratio Lower Upper

97 100

99 63.8 43.0 79.8

83 93.1 61.7 114.7

85 60.3 39.3 73.1

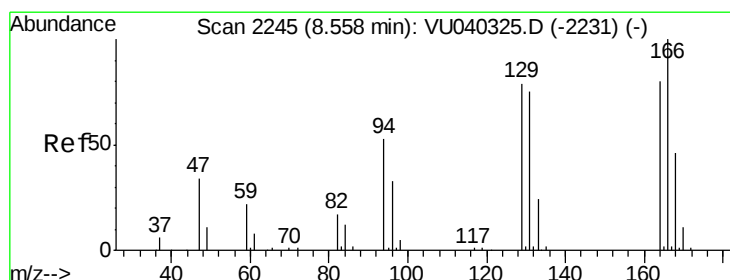
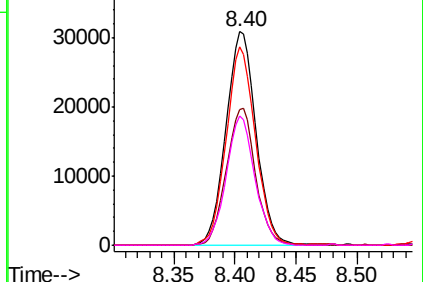
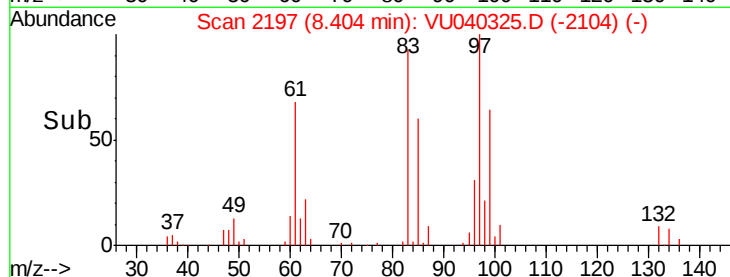


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 5.121 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Tgt Ion: 164 Resp: 47546

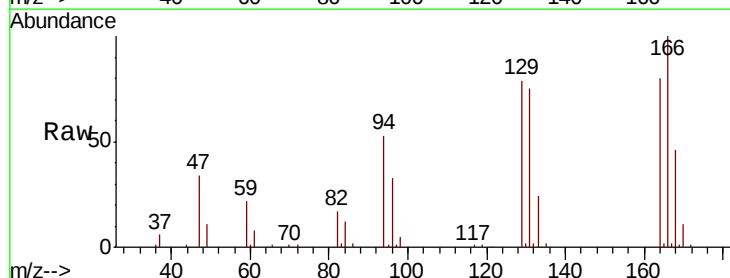
Ion Ratio Lower Upper

164 100

129 99.0 71.5 132.7

131 93.3 65.9 122.5

166 125.3 87.3 162.1

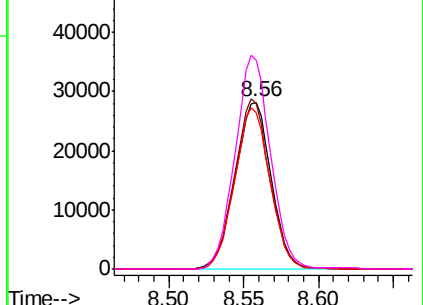
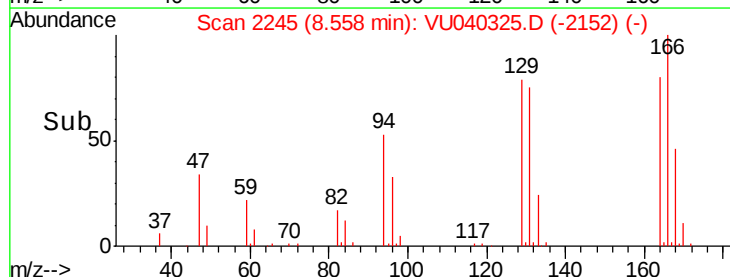


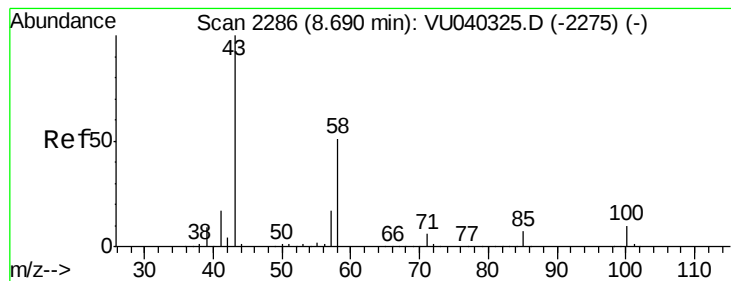
Abundance Ion 163.90 (163.60 to 164.60): V

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: 56.600 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

Tot Ion: 43 Resp: 483281

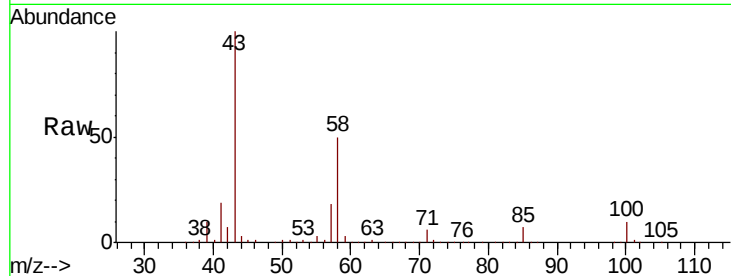
Ion Ratio Lower Upper

43 100

58 50.4 39.6 59.4

57 17.5 14.3 21.5

100 10.1 8.0 12.0

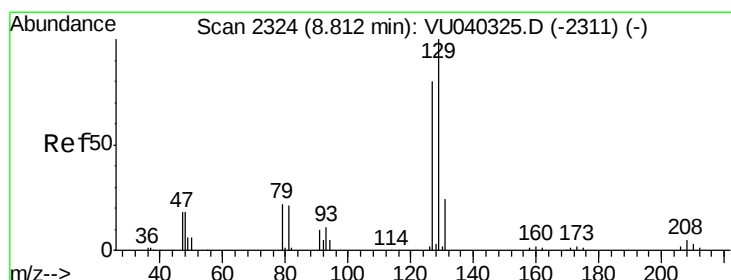
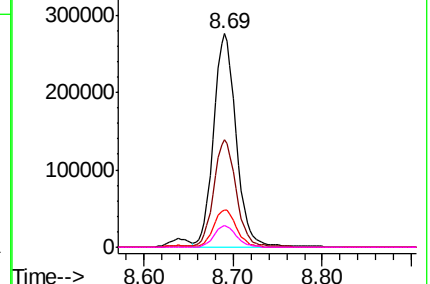
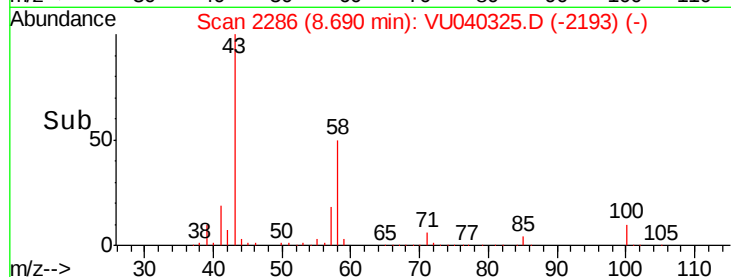


Abundance Ion 43.05 (42.75 to 43.75): VU040325.D (-2275) (-)

Ion 58.05 (57.75 to 58.75): VU040325.D (-2275) (-)

Ion 57.20 (56.90 to 57.90): VU040325.D (-2275) (-)

Ion 100.15 (99.85 to 100.85): VU040325.D (-2275) (-)



#49

Dibromochloromethane

Concen: 4.907 ug/L

RT: 8.81 min Scan# 2324

Delta R.T. -0.00 min

Lab File: VU040325.D

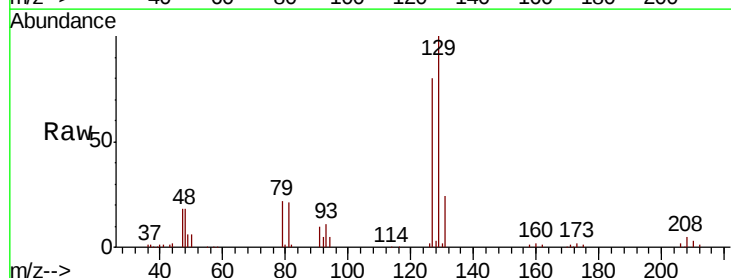
Acq: 28 Sep 2020 10:28

Tgt Ion: 129 Resp: 61217

Ion Ratio Lower Upper

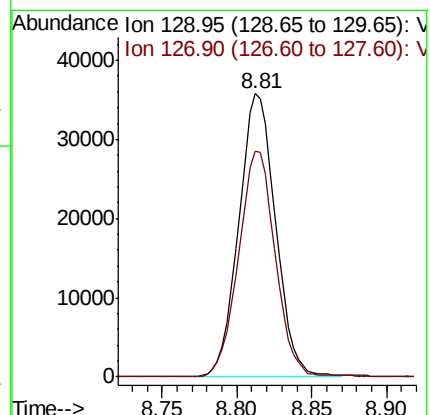
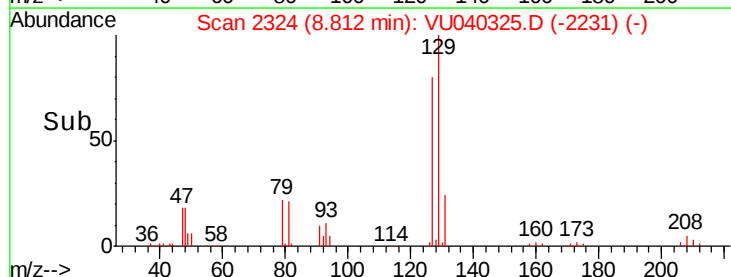
129 100

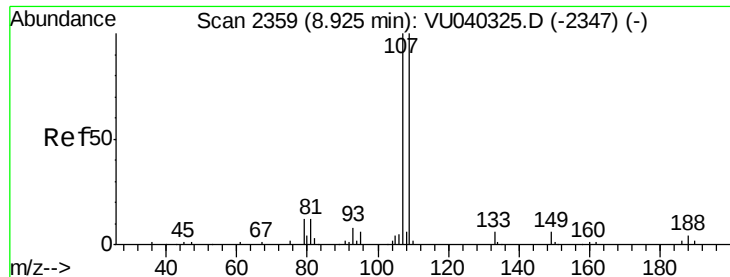
127 79.6 53.7 99.7



Abundance Ion 128.95 (128.65 to 129.65): VU040325.D (-2311) (-)

Ion 126.90 (126.60 to 127.60): VU040325.D (-2311) (-)

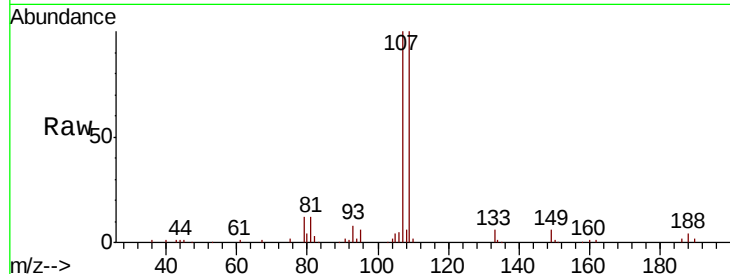




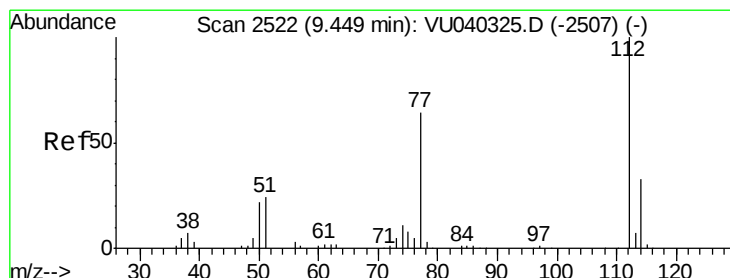
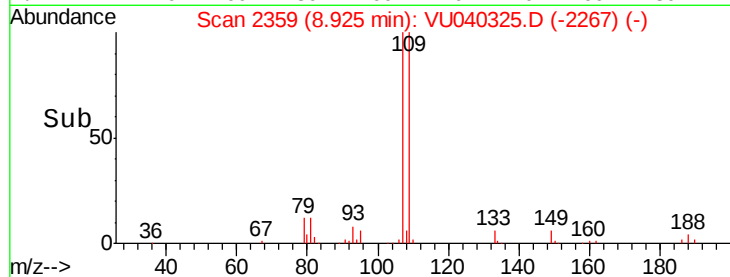
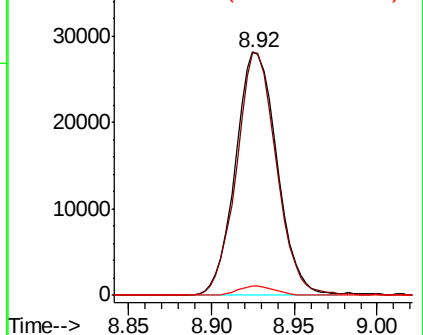
#50
 1,2-Dibromoethane
 Concen: 4.896 ug/L
 RT: 8.92 min Scan# 2359
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

Tot Ion:107 Resp: 49063
 Ion Ratio Lower Upper
 107 100
 109 99.5 62.4 115.8
 188 3.7 2.3 3.5#

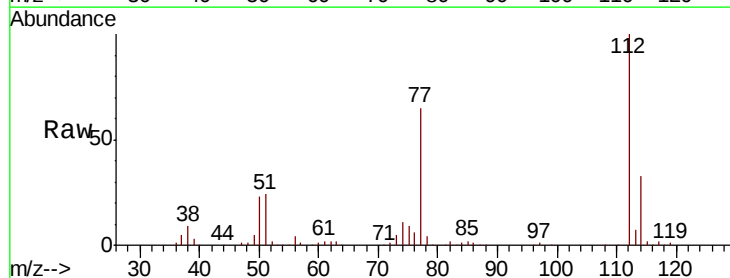


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

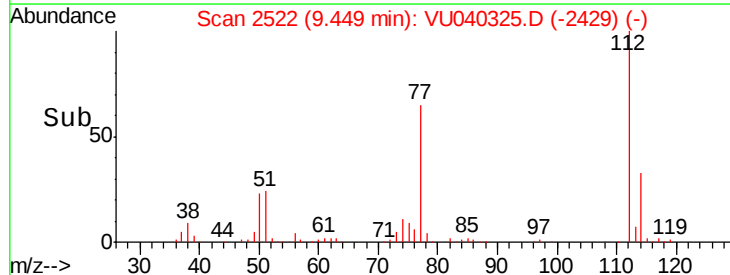
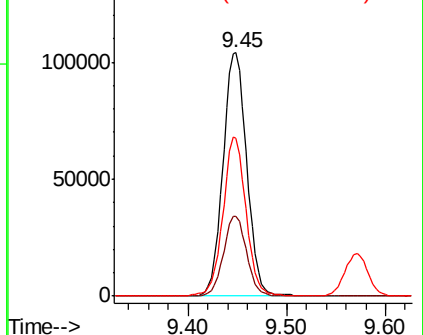


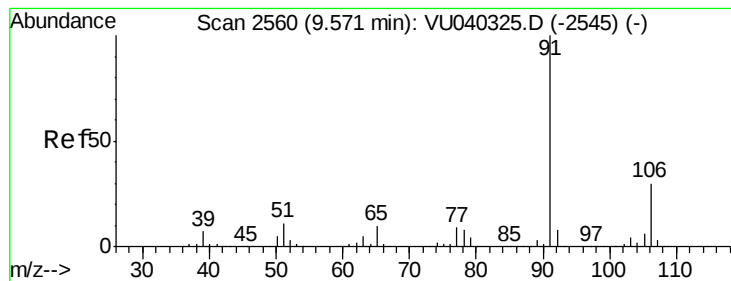
#51
 Chlorobenzene
 Concen: 5.204 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Tgt Ion:112 Resp: 175311
 Ion Ratio Lower Upper
 112 100
 114 33.0 22.7 42.3
 77 64.6 53.2 79.8



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: 4.919 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

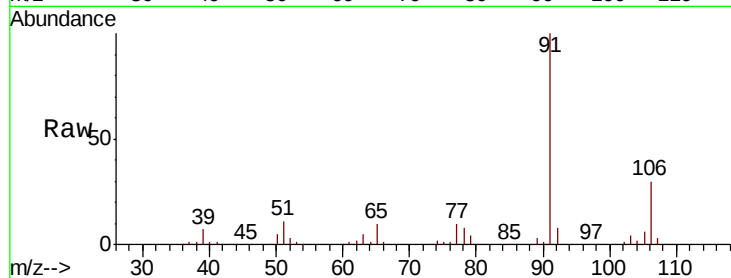
VSTD00522

Tot Ion: 91 Resp: 303289

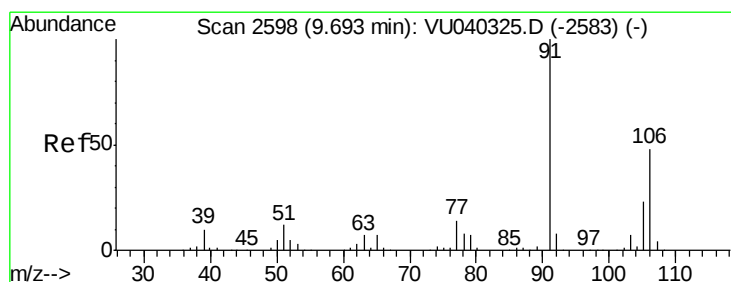
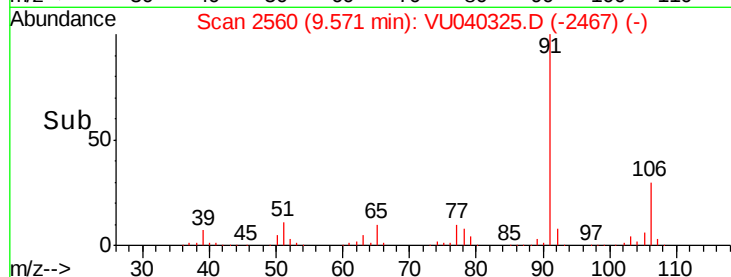
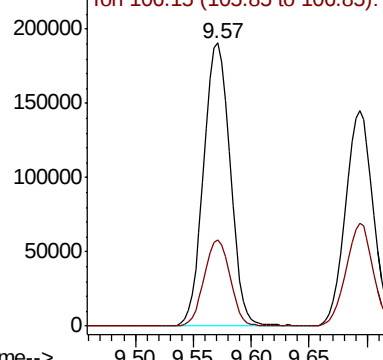
Ion Ratio Lower Upper

91 100

106 30.3 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU040325.D (-2545) (-)



#53

m,p-Xylene

Concen: 5.198 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040325.D

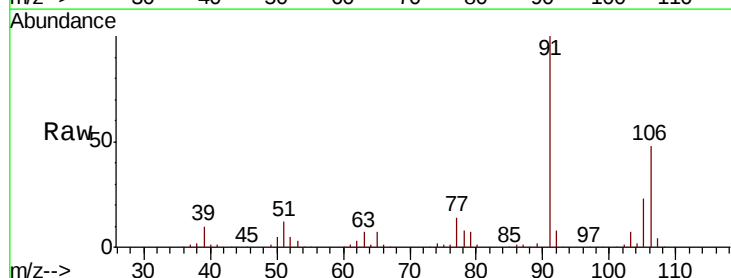
Acq: 28 Sep 2020 10:28

Tgt Ion: 106 Resp: 114094

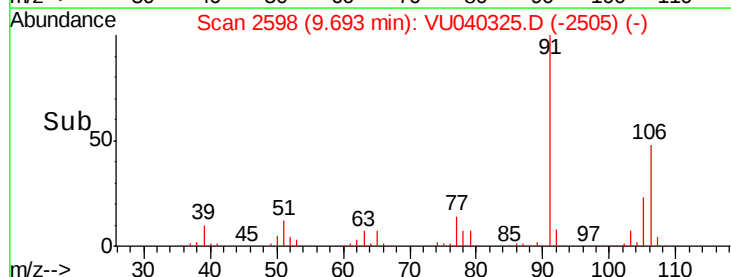
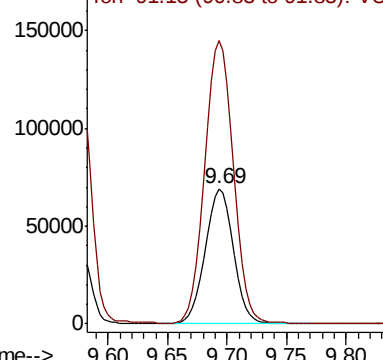
Ion Ratio Lower Upper

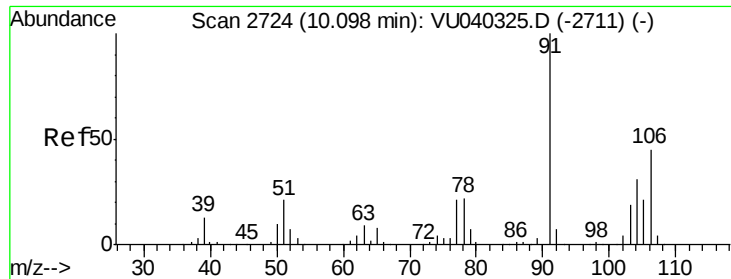
106 100

91 209.3 151.7 281.7



Abundance Ion 106.15 (105.85 to 106.85): VU040325.D (-2583) (-)

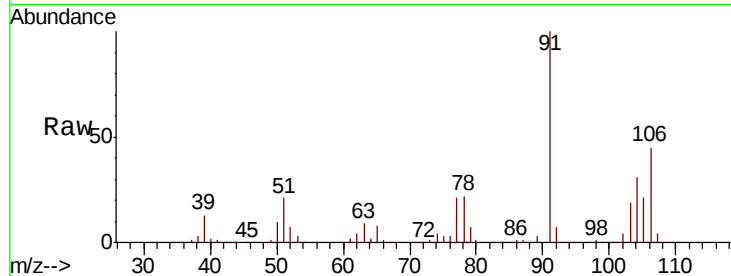




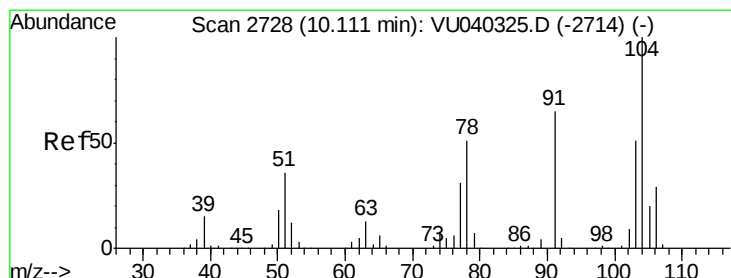
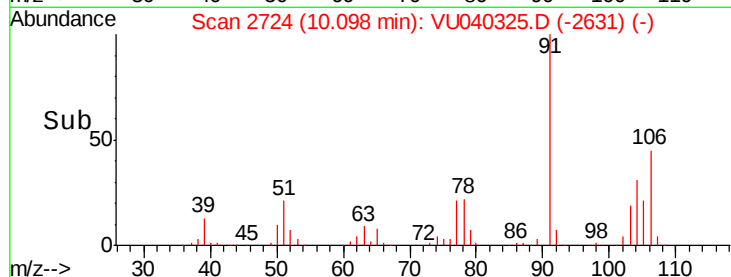
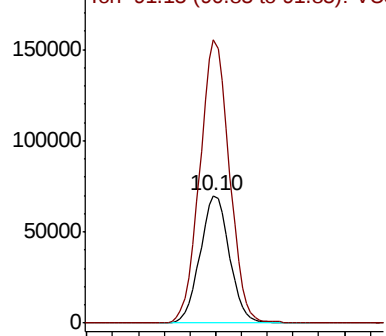
#54
o-Xylene
Concen: 5.297 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040325.D
Acq: 28 Sep 2020 10:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD00522

Tot Ion:106 Resp: 110805
Ion Ratio Lower Upper
106 100
91 221.6 160.8 298.6

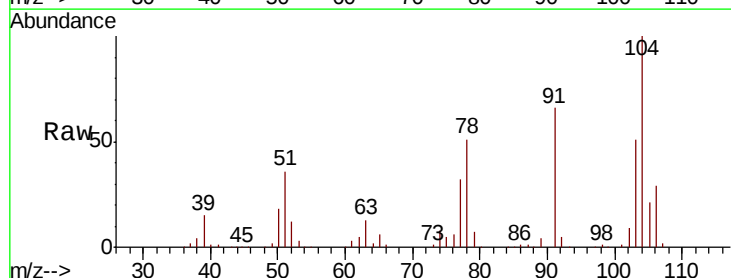


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

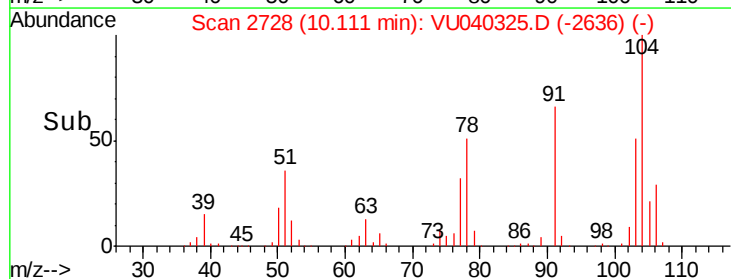
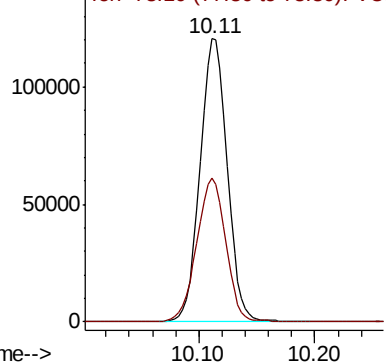


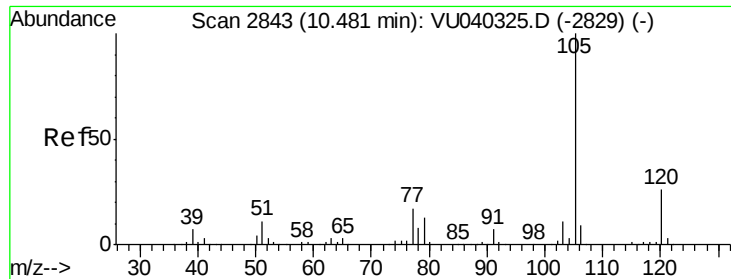
#55
Styrene
Concen: 5.327 ug/L
RT: 10.11 min Scan# 2728
Delta R.T. -0.00 min
Lab File: VU040325.D
Acq: 28 Sep 2020 10:28

Tgt Ion:104 Resp: 193756
Ion Ratio Lower Upper
104 100
78 51.0 36.8 68.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.312 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

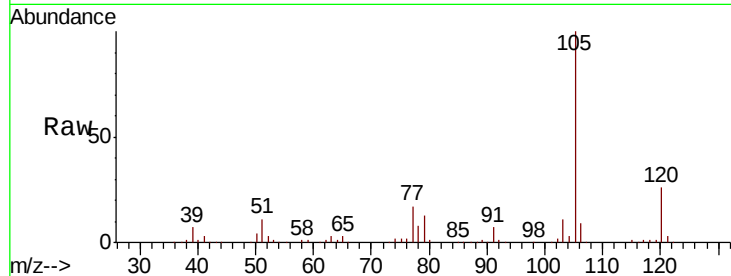
Tot Ion:105 Resp: 303031

Ion Ratio Lower Upper

105 100

120 25.5 20.1 30.1

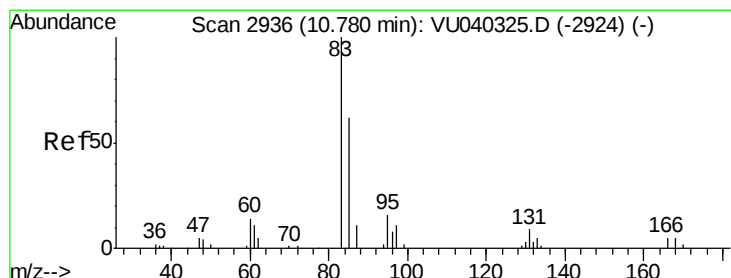
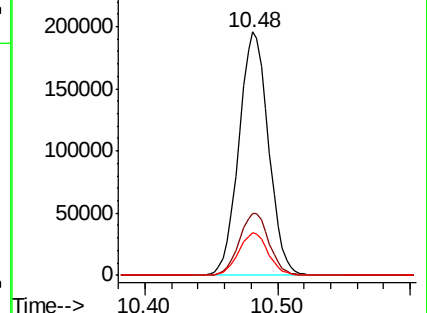
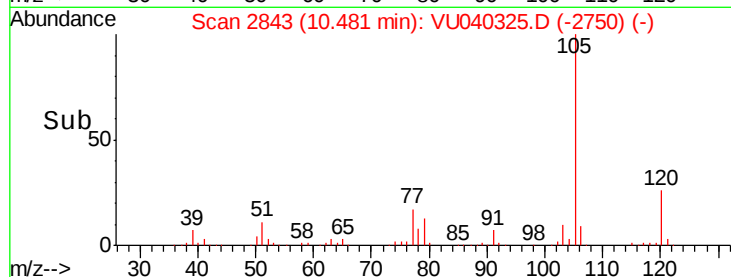
77 17.4 14.4 21.6



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: 5.360 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

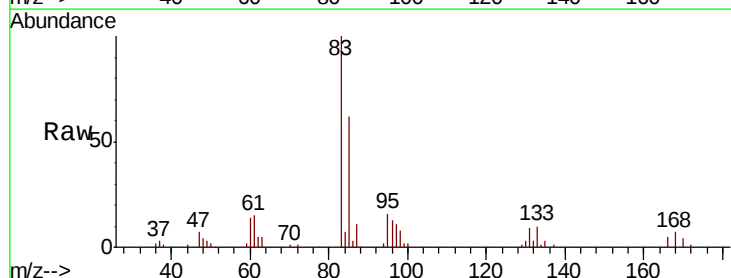
Tgt Ion: 83 Resp: 71435

Ion Ratio Lower Upper

83 100

85 62.3 44.9 83.3

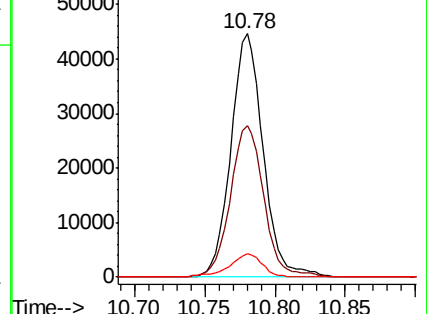
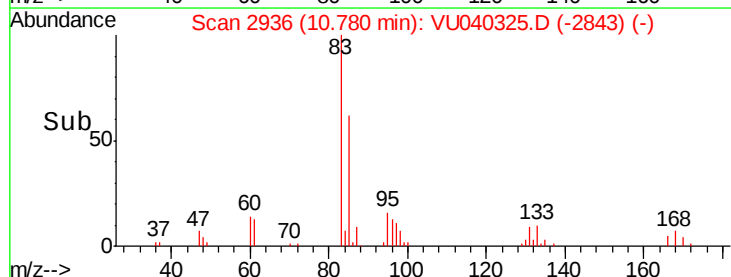
131 9.4 7.4 11.0

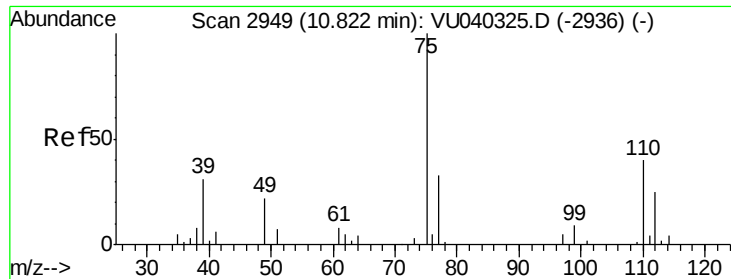


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.109 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

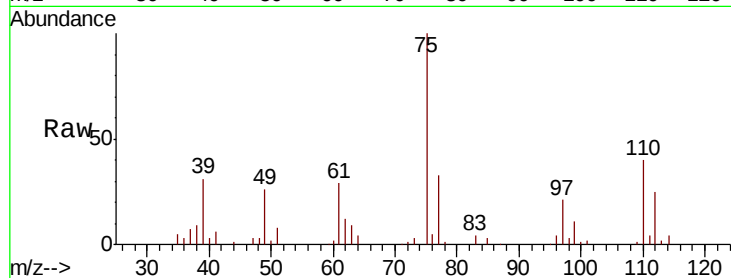
VSTD00522

Tot Ion: 75 Resp: 53996

Ion Ratio Lower Upper

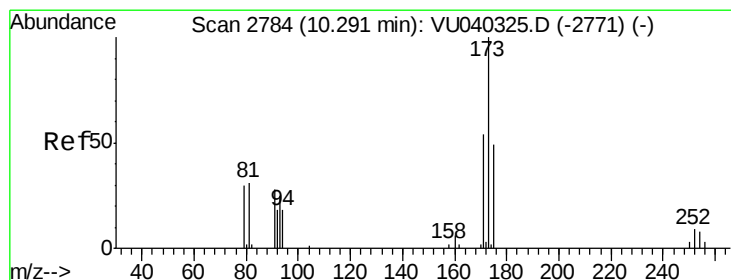
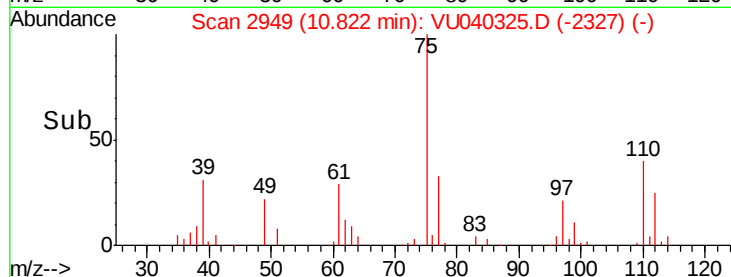
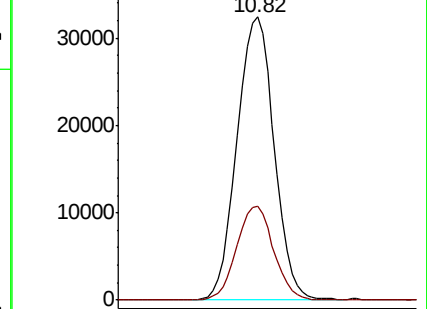
75 100

77 33.0 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VU040325.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040325.D (-2936) (-)



#61

Bromoform

Concen: 4.831 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

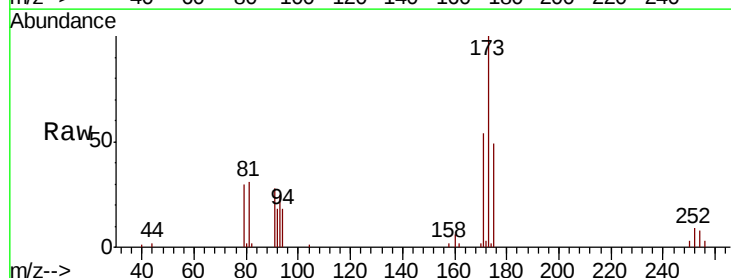
Tgt Ion:173 Resp: 34473

Ion Ratio Lower Upper

173 100

175 48.9 37.8 56.6

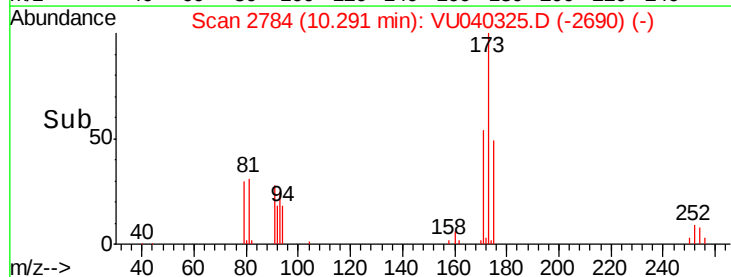
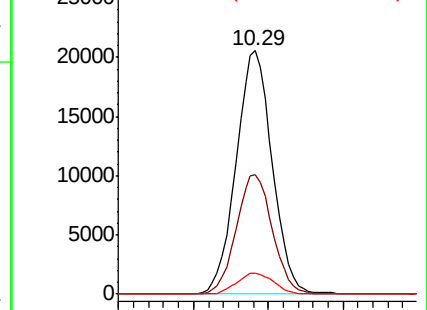
254 8.5 6.8 10.2

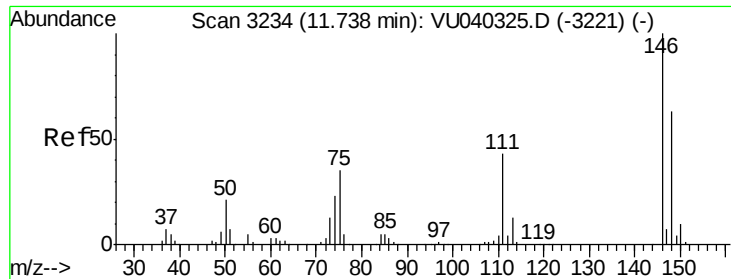


Abundance Ion 172.90 (172.60 to 173.60): VU040325.D (-2771) (-)

Ion 174.90 (174.60 to 175.60): VU040325.D (-2771) (-)

Ion 253.75 (253.45 to 254.45): VU040325.D (-2771) (-)





#62

1,3-Dichlorobenzene

Concen: 5.130 ug/L

RT: 11.74 min Scan# 3234

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

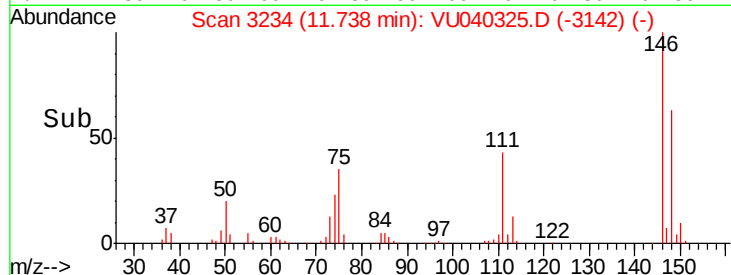
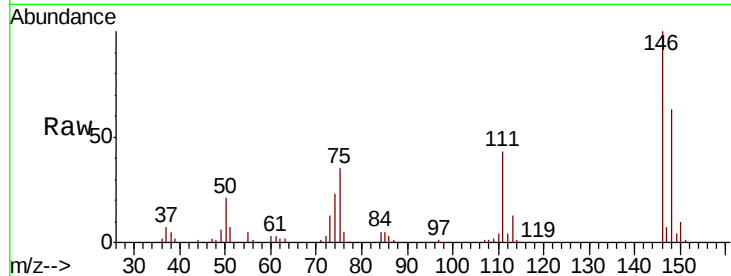
Tot Ion:146 Resp: 145872

Ion Ratio Lower Upper

146 100

111 43.3 31.6 58.8

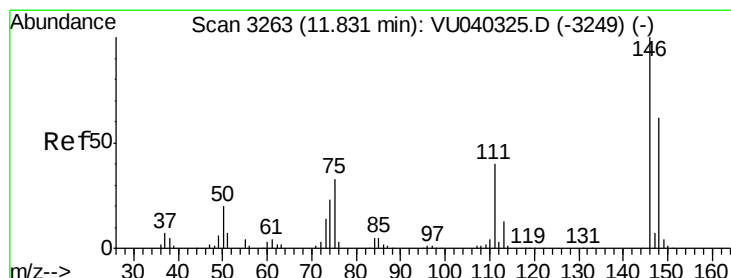
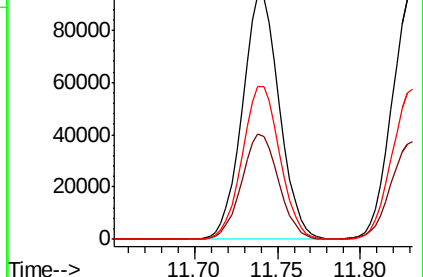
148 62.6 44.2 82.0



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



#63

1,4-Dichlorobenzene

Concen: 5.164 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

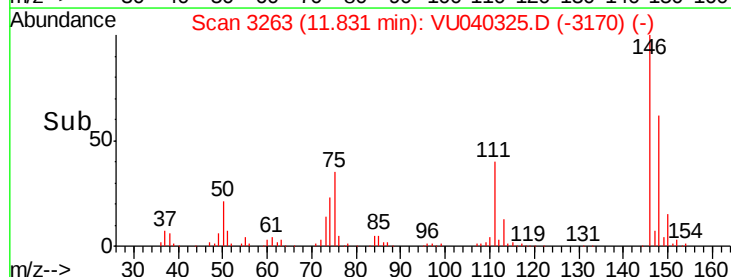
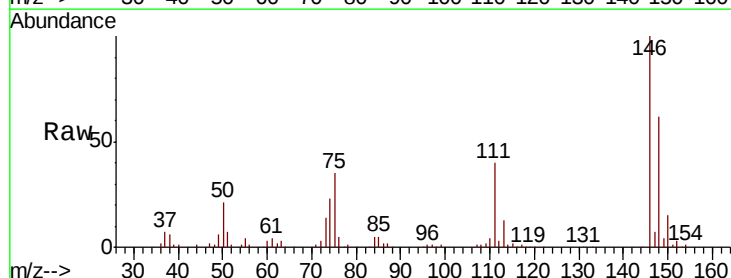
Tgt Ion:146 Resp: 148584

Ion Ratio Lower Upper

146 100

111 40.1 30.5 56.7

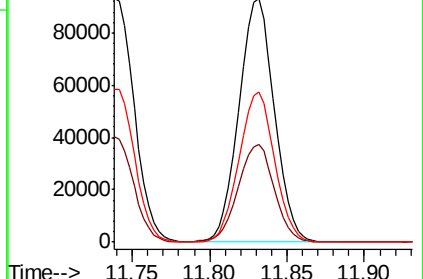
148 61.6 45.4 84.4

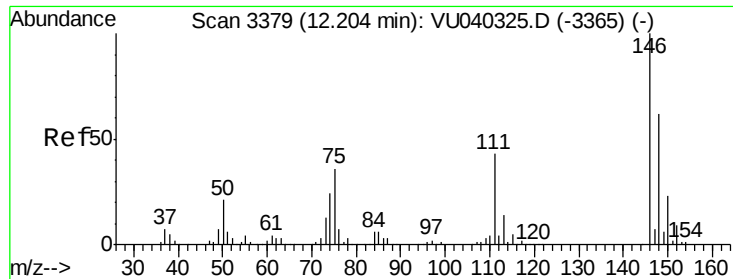


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.056 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

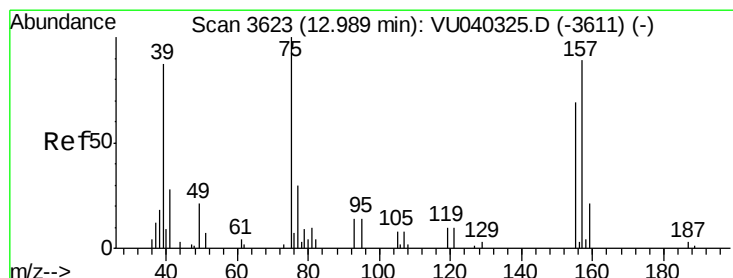
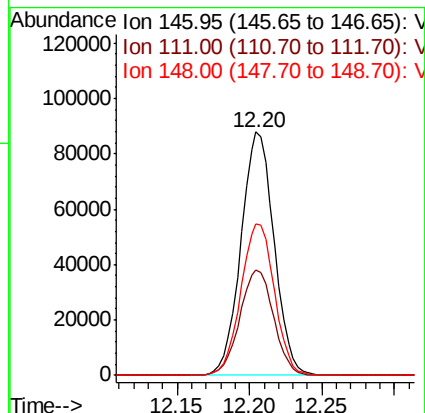
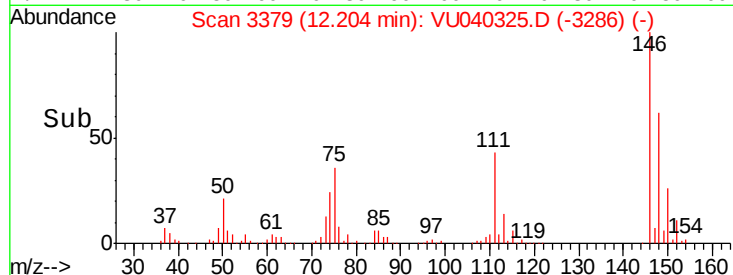
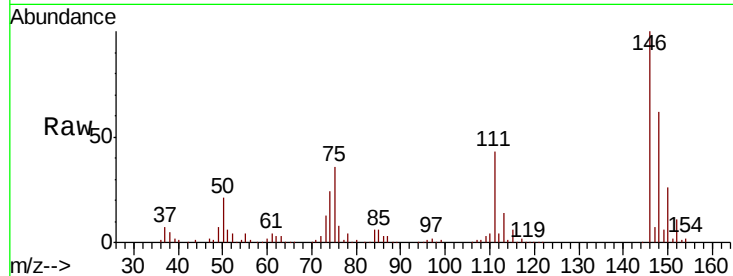
Tot Ion:146 Resp: 139116

Ion Ratio Lower Upper

146 100

111 43.4 36.5 54.7

148 62.4 48.6 72.8



#66

1,2-Dibromo-3-chloropropane

Concen: 4.301 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

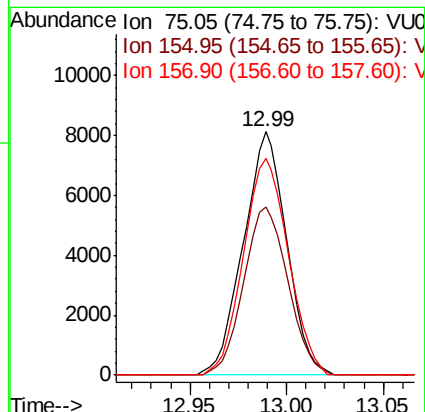
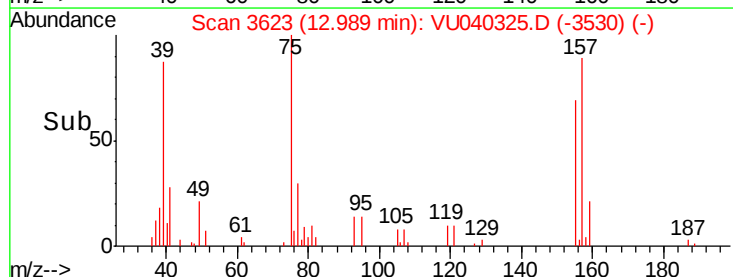
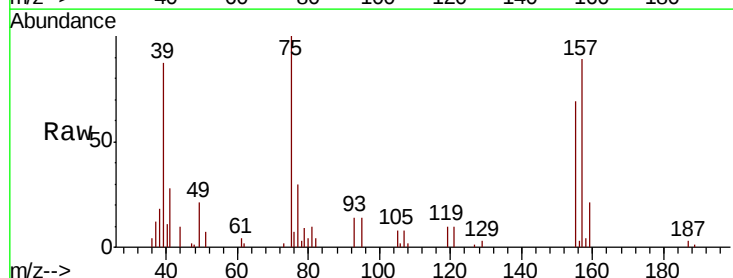
Tgt Ion: 75 Resp: 12655

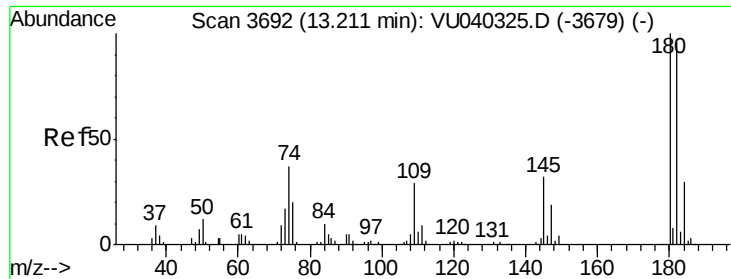
Ion Ratio Lower Upper

75 100

155 68.9 54.6 82.0

157 88.8 75.6 113.4

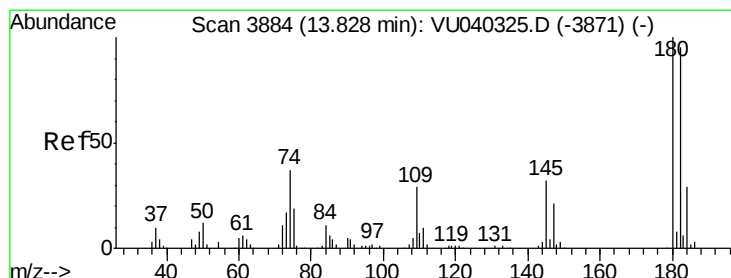
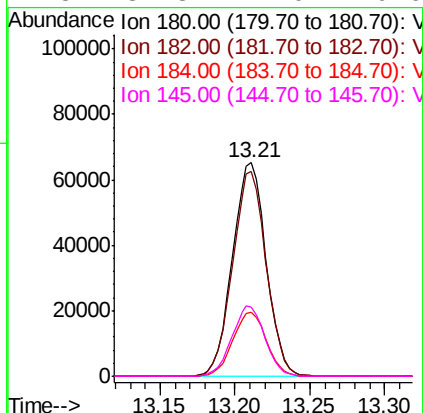
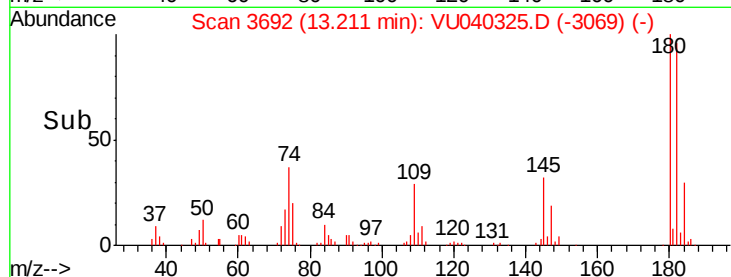
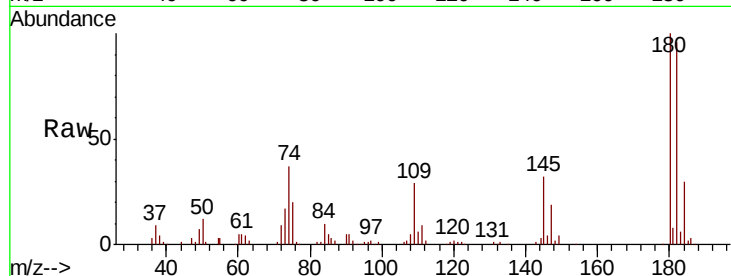




#67
 1,3,5-Trichlorobenzene
 Concen: 5.105 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

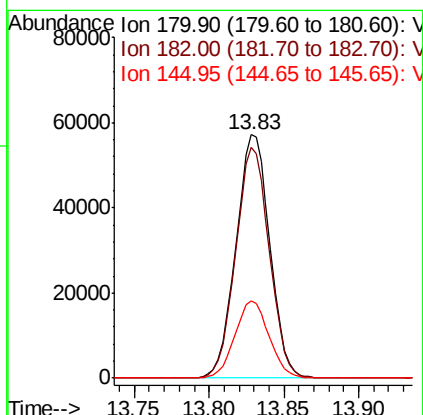
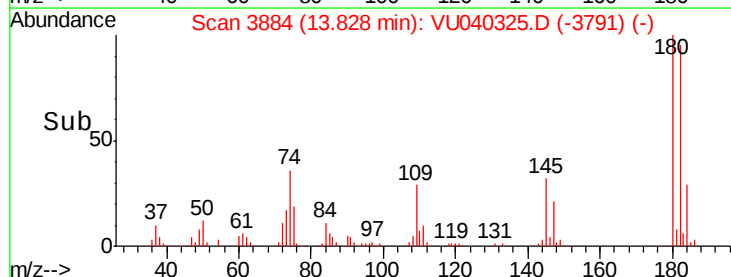
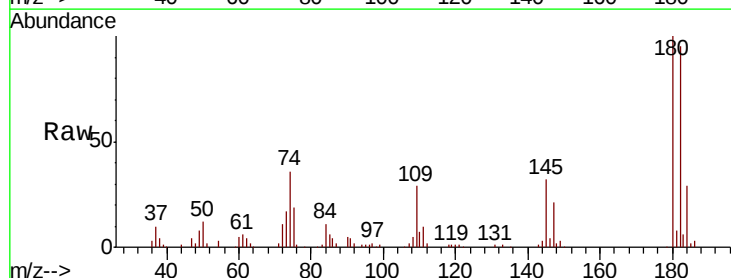
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00522

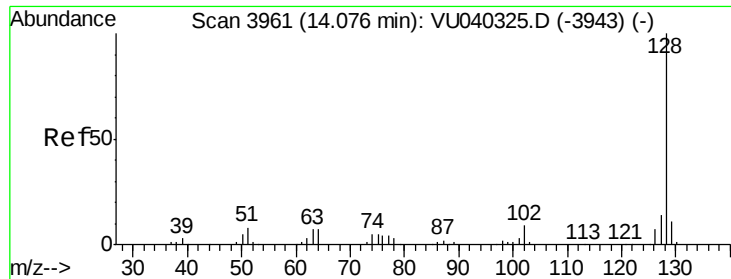
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.9	115.3
184	29.9	24.6	36.8
145	32.3	27.0	40.6



#68
 1,2,4-trichlorobenzene
 Concen: 5.225 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040325.D
 Acq: 28 Sep 2020 10:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	76.0	114.0
145	31.9	28.4	42.6





#69

Naphthalene

Concen: 4.686 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00522

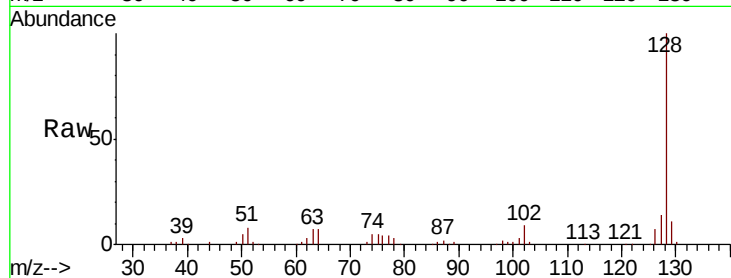
Tot Ion:128 Resp: 168195

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

127 13.2 10.7 16.1

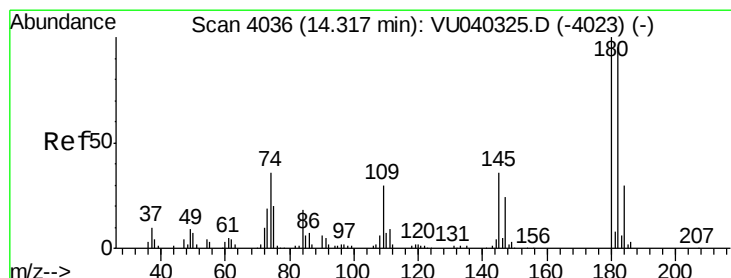
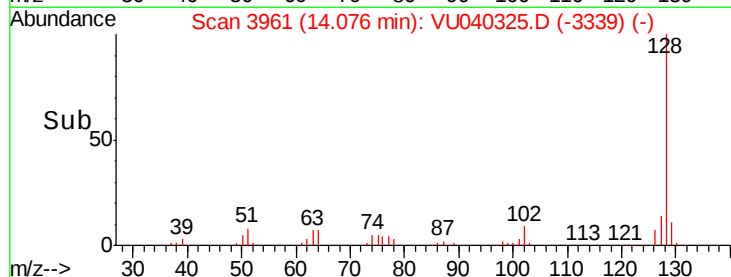
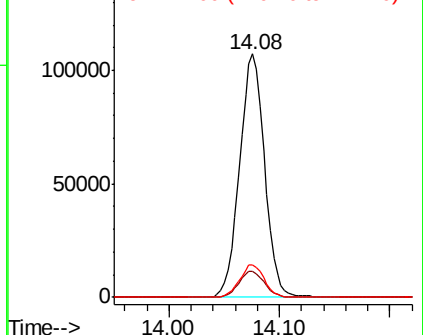


Abundance

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: 5.153 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU040325.D

Acq: 28 Sep 2020 10:28

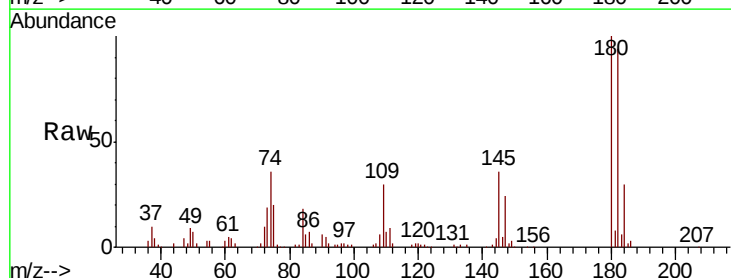
Tgt Ion:180 Resp: 81514

Ion Ratio Lower Upper

180 100

182 95.6 77.8 116.6

145 34.6 28.7 43.1



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

