

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091420\
 Data File : VU040110.D
 Acq On : 14 Sep 2020 10:14
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00528

Quant Time: Sep 14 11:42:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 14 11:41:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	118341	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	116921	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	57718	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	33696	5.22	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.40%
7) Chloroethane-d5	1.92	69	27804	5.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.40%
11) 1,1-Dichloroethene-d2	2.58	63	84232	5.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.60%
20) 2-Butanone-d5	4.66	46	116132	44.94	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.88%
24) Chloroform-d	5.08	84	68631	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	5.72	65	42241	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
32) Benzene-d6	5.74	84	125695	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.70	67	40215	4.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.40%
41) Toluene-d8	7.90	98	113734	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
43) trans-1,3-Dichloropropene-	8.18	79	17483	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.64	63	86647	44.26	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.52%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	36116	4.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	41763	4.47	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	59619	5.076	ug/L	100
3) Chloromethane	1.52	50	50134	4.459	ug/L	99
5) Vinyl chloride	1.61	62	54343	4.767	ug/L	97
6) Bromomethane	1.86	94	24909	4.275	ug/L	100
8) Chloroethane	1.94	64	32964	4.812	ug/L	98
9) Trichlorofluoromethane	2.15	101	84213	5.157	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	55277	5.222	ug/L	99
12) 1,1-Dichloroethene	2.59	96	47945	5.235	ug/L	98
13) Acetone	2.68	43	120742	50.469	ug/L	96
14) Carbon disulfide	2.81	76	140890	4.798	ug/L	98
15) Methyl Acetate	2.97	43	30597	5.096	ug/L	97
16) Methylene chloride	3.06	84	54185	4.518	ug/L	97
17) Methyl tert-butyl Ether	3.38	73	137470	4.980	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	49907	5.066	ug/L	96
19) 1,1-Dichloroethane	3.89	63	99634	4.913	ug/L	99
21) 2-Butanone	4.74	43	201994	51.715	ug/L	98
22) cis-1,2-Dichloroethene	4.68	96	54260	5.122	ug/L	98

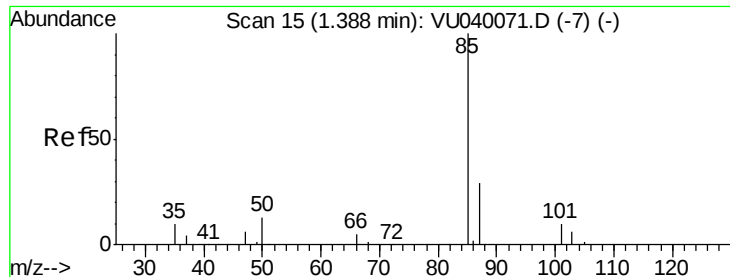
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091420\
 Data File : VU040110.D
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 14 11:41:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	24510	5.281	ug/L	93
25) Chloroform	5.10	83	109017	5.250	ug/L	98
27) 1,2-Dichloroethane	5.81	62	76242	5.011	ug/L	98
29) 1,1,1-Trichloroethane	5.33	97	91426	4.980	ug/L	98
30) Cyclohexane	5.40	56	83163	4.671	ug/L	99
31) Carbon tetrachloride	5.54	117	77678	4.944	ug/L	99
33) Benzene	5.79	78	213270	5.099	ug/L	100
34) Trichloroethene	6.55	95	56012	4.992	ug/L	96
35) Methylcyclohexane	6.77	83	83329	4.850	ug/L	98
37) 1,2-Dichloropropane	6.80	63	57167	5.047	ug/L	100
38) Bromodichloromethane	7.12	83	75996	4.915	ug/L	98
39) cis-1,3-Dichloropropene	7.61	75	81103	4.856	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	454563	48.916	ug/L	98
42) Toluene	7.97	91	221324	5.138	ug/L	100
44) trans-1,3-Dichloropropene	8.21	75	76447	4.939	ug/L	95
45) 1,1,2-Trichloroethane	8.40	97	42293	5.126	ug/L	96
47) Tetrachloroethene	8.56	164	37771	5.125	ug/L	96
48) 2-Hexanone	8.69	43	344283	50.791	ug/L	99
49) Dibromochloromethane	8.81	129	48891	4.937	ug/L	97
50) 1,2-Dibromoethane	8.93	107	39911	5.017	ug/L	95
51) Chlorobenzene	9.45	112	142220	5.318	ug/L	97
52) Ethylbenzene	9.57	91	245967	5.026	ug/L	99
53) m,p-Xylene	9.69	106	91288	5.239	ug/L	98
54) o-Xylene	10.10	106	88898	5.354	ug/L	95
55) Styrene	10.11	104	156765	5.429	ug/L	97
56) Isopropylbenzene	10.48	105	242792	5.361	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	54202	5.123	ug/L	99
59) 1,2,3-Trichloropropane	10.82	75	42360	5.048	ug/L	98
61) Bromoform	10.29	173	25100	4.741	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	113219	5.367	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	114415	5.360	ug/L	97
65) 1,2-Dichlorobenzene	12.20	146	108981	5.339	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	9921	4.544	ug/L	96
67) 1,3,5-Trichlorobenzene	13.21	180	78514	5.293	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	66154	5.178	ug/L	98
69) Naphthalene	14.08	128	118208	4.439	ug/L	98
70) 1,2,3-Trichlorobenzene	14.32	180	59316	5.054	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.076 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

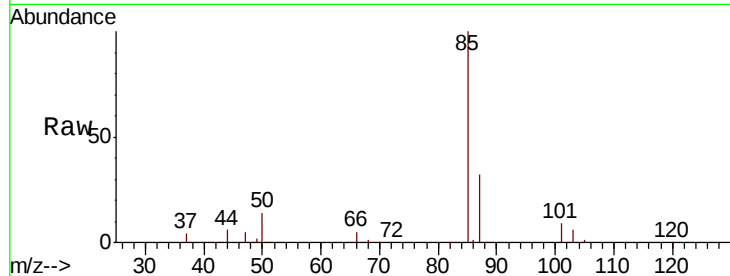
Instrument :
MSVOA_U
ClientSampleId :
VSTD00528

Tot Ion: 85 Resp: 59619

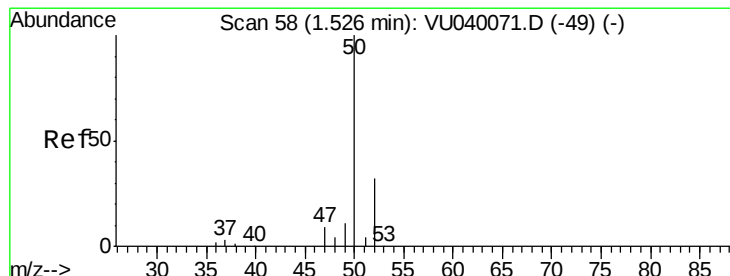
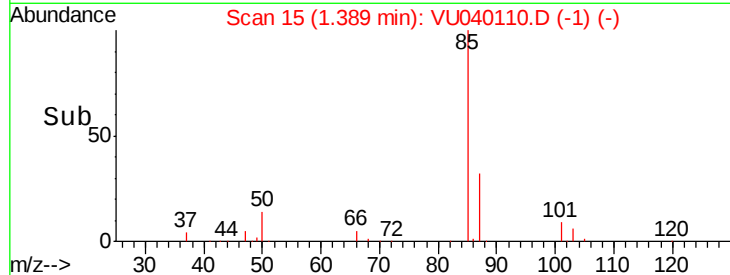
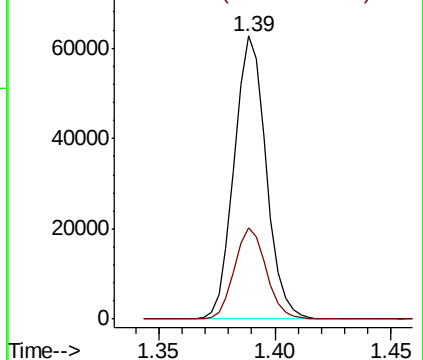
Ion Ratio Lower Upper

85 100

87 32.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU040110.D (-1) (-)



#3

Chloromethane

Concen: 4.459 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU040110.D

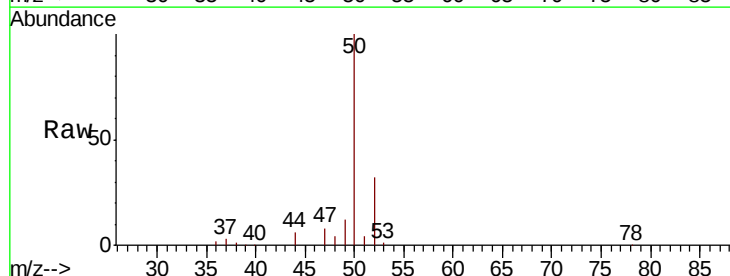
Acq: 14 Sep 2020 10:14

Tgt Ion: 50 Resp: 50134

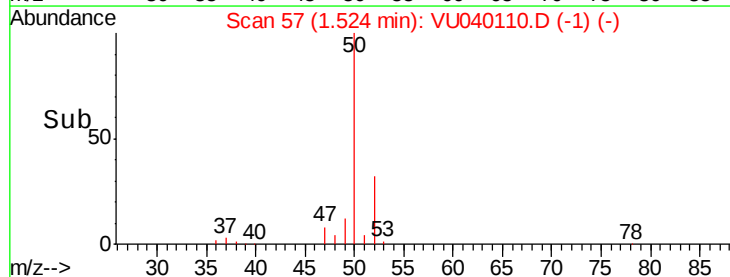
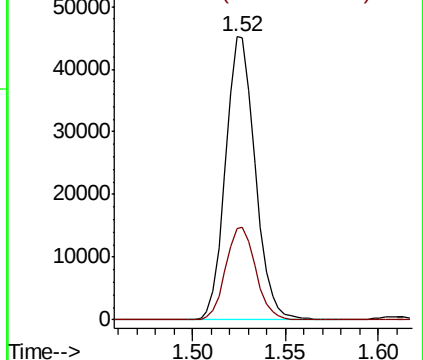
Ion Ratio Lower Upper

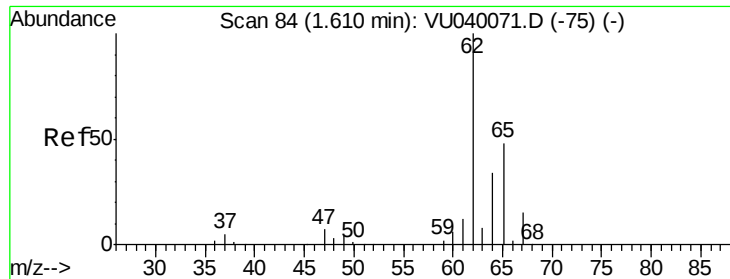
50 100

52 32.1 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU040110.D (-1) (-)





#5

Vinyl chloride

Concen: 4.767 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

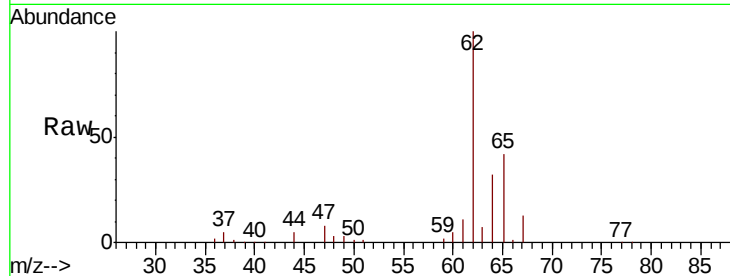
VSTD00528

Tot Ion: 62 Resp: 54343

Ion Ratio Lower Upper

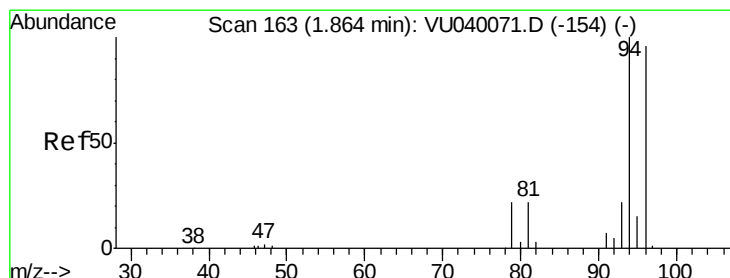
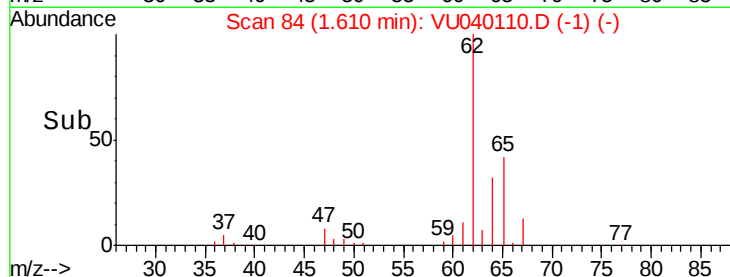
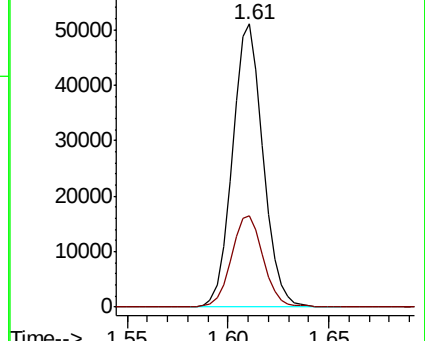
62 100

64 32.5 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VU040110.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU040110.D (-1) (-)



#6

Bromomethane

Concen: 4.275 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU040110.D

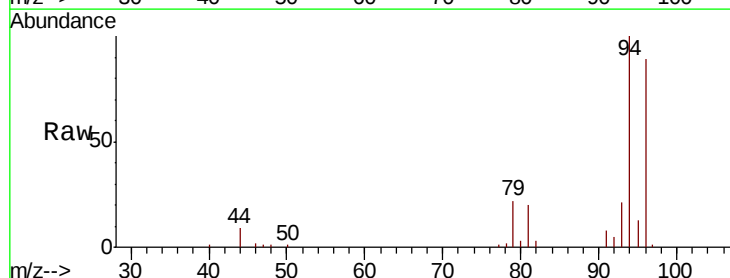
Acq: 14 Sep 2020 10:14

Tgt Ion: 94 Resp: 24909

Ion Ratio Lower Upper

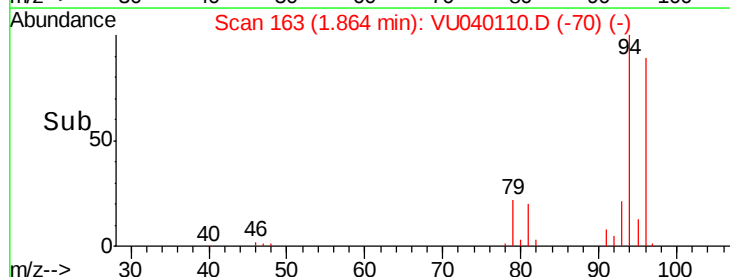
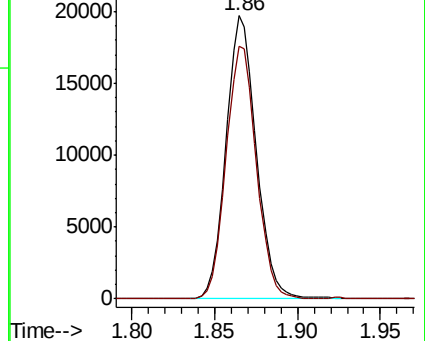
94 100

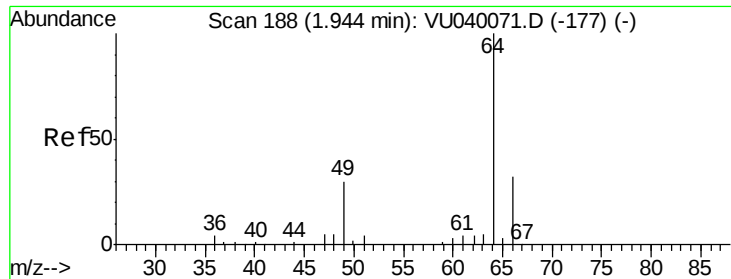
96 89.2 62.3 115.7



Abundance Ion 94.00 (93.70 to 94.70): VU040110.D (-70) (-)

Ion 96.00 (95.70 to 96.70): VU040110.D (-70) (-)

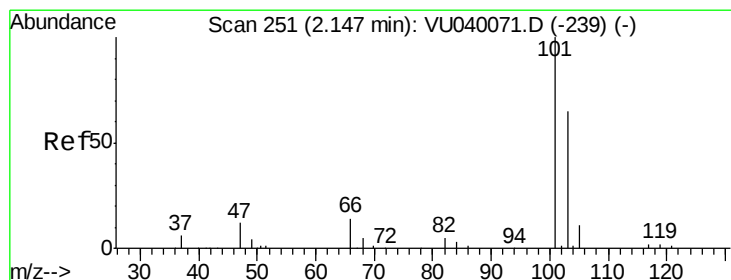
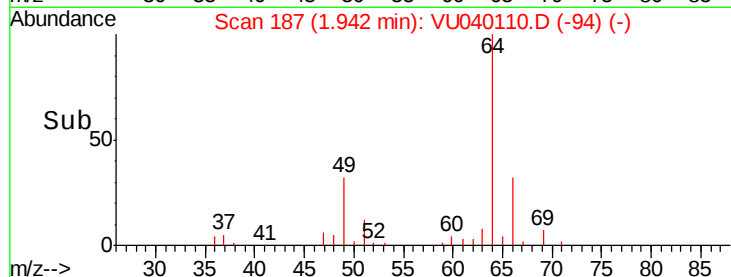
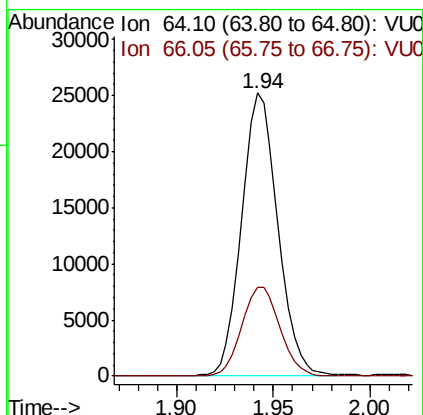
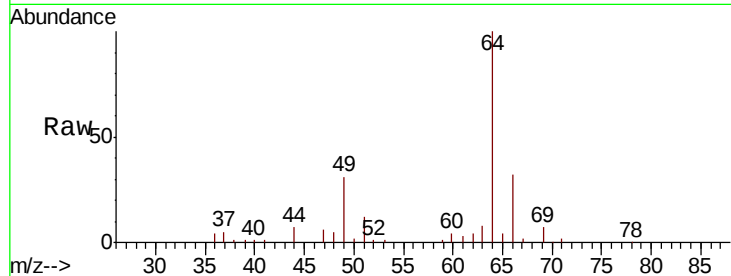




#8
Chloroethane
Concen: 4.812 ug/L
RT: 1.94 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

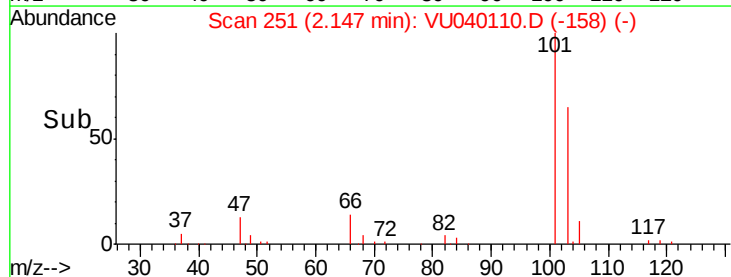
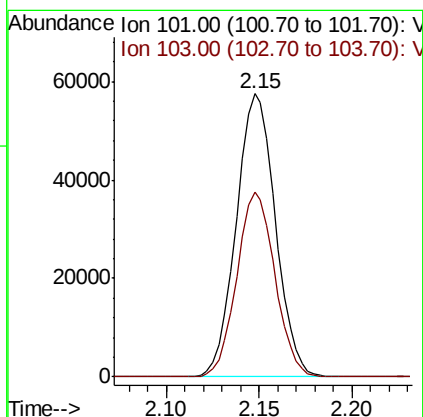
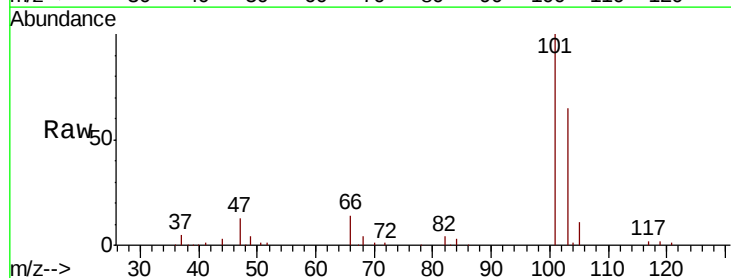
Instrument :
MSVOA_U
ClientSampleId :
VSTD00528

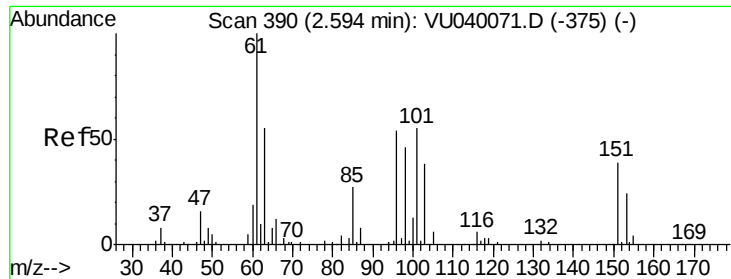
Tot Ion: 64 Resp: 32964
Ion Ratio Lower Upper
64 100
66 31.5 22.7 42.1



#9
Trichlorofluoromethane
Concen: 5.157 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

Tgt Ion:101 Resp: 84213
Ion Ratio Lower Upper
101 100
103 63.5 51.3 76.9





#10

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

Concen: 5.222 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00528

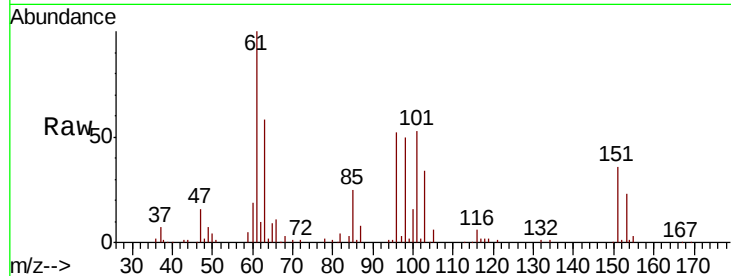
Tot Ion:101 Resp: 55277

Ion Ratio Lower Upper

101 100

85 46.8 37.7 56.5

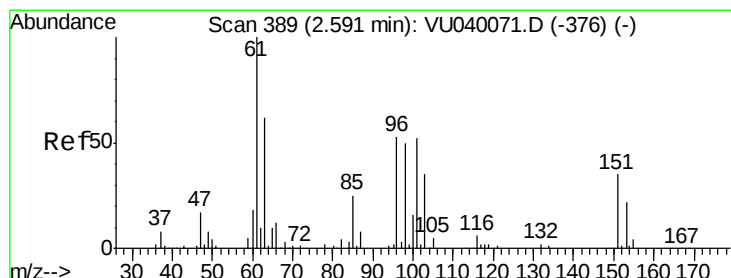
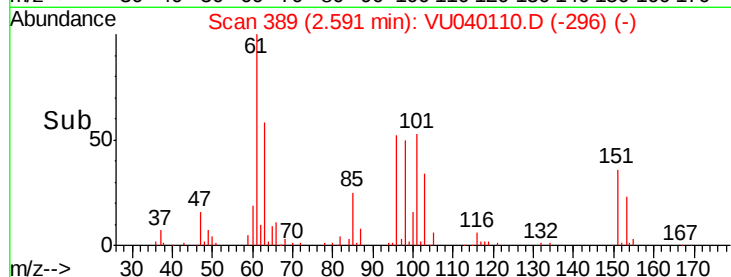
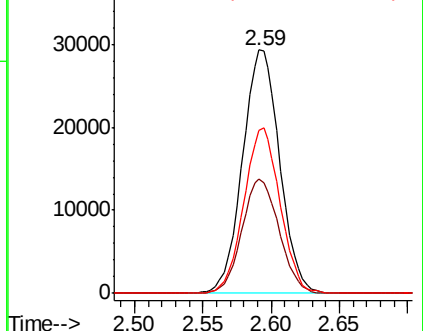
151 66.1 53.9 80.9



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: 5.235 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

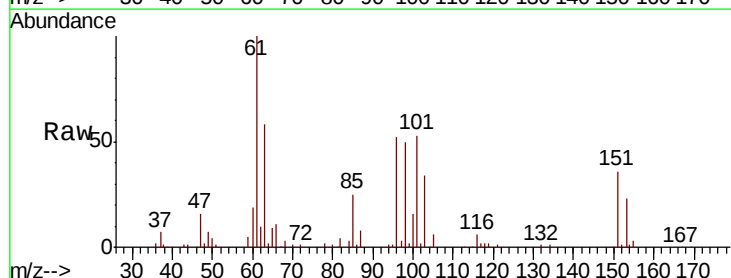
Tgt Ion: 96 Resp: 47945

Ion Ratio Lower Upper

96 100

61 192.1 138.3 256.8

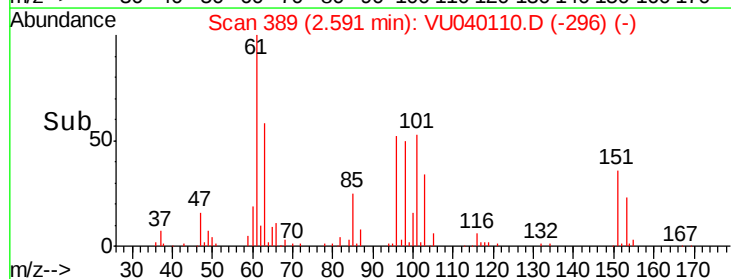
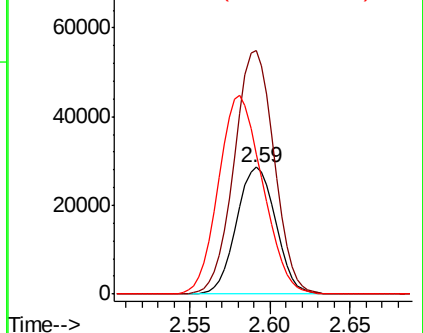
63 110.9 77.6 144.2

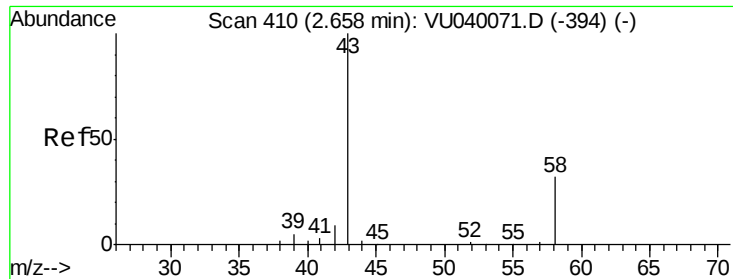


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 50.469 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

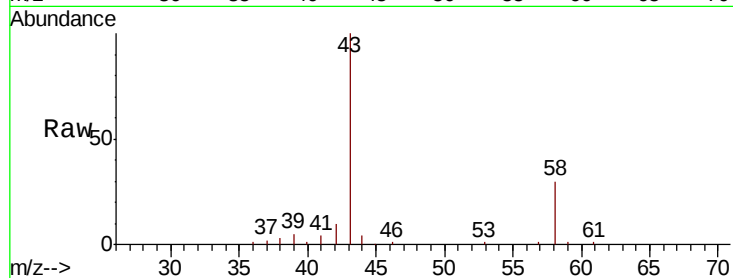
VSTD00528

Tot Ion: 43 Resp: 120742

Ion Ratio Lower Upper

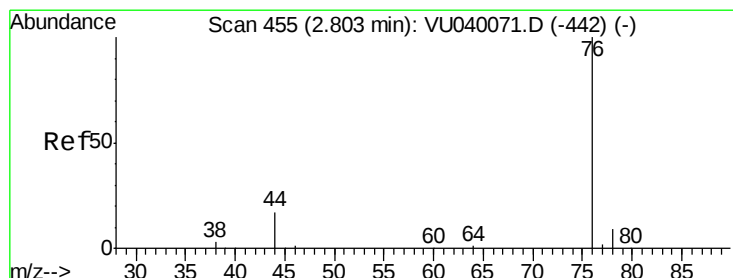
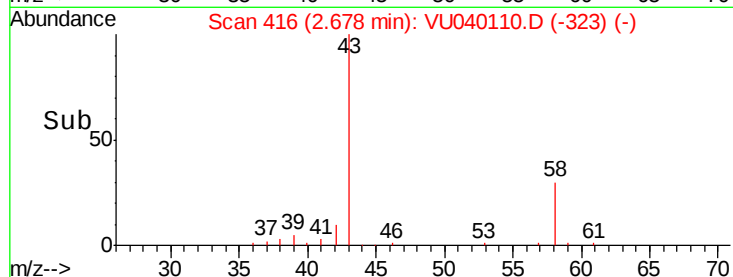
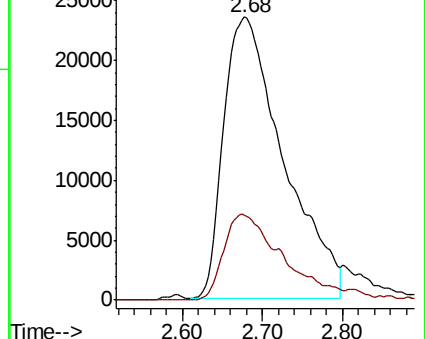
43 100

58 29.9 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: 4.798 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040110.D

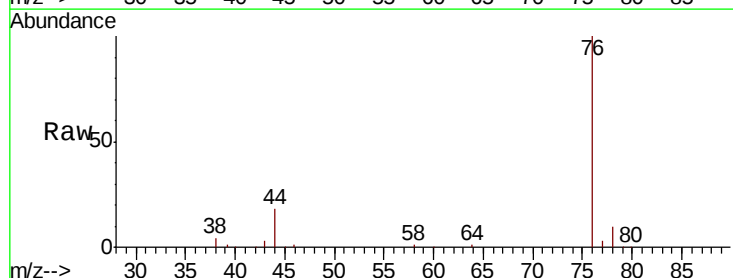
Acq: 14 Sep 2020 10:14

Tgt Ion: 76 Resp: 140890

Ion Ratio Lower Upper

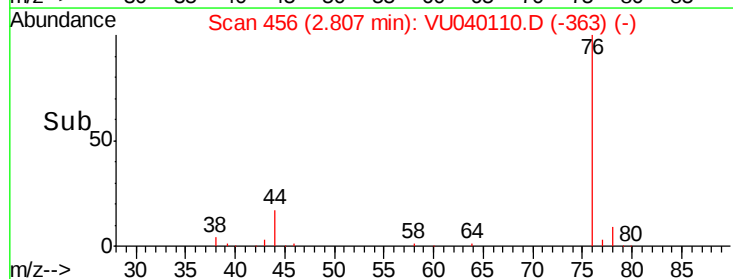
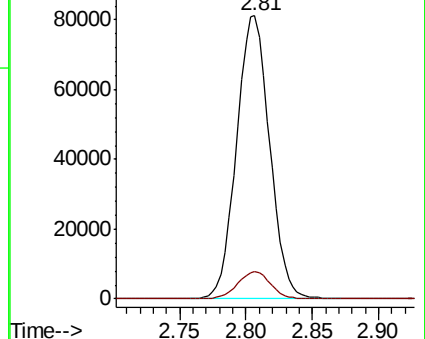
76 100

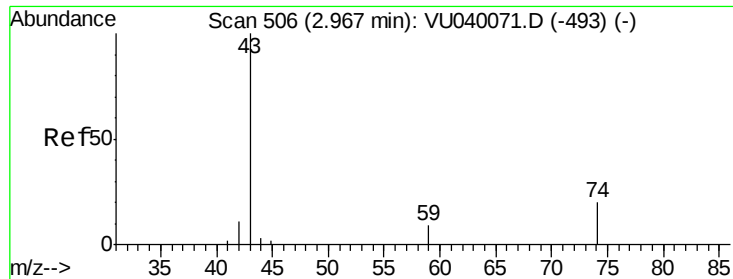
78 9.8 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

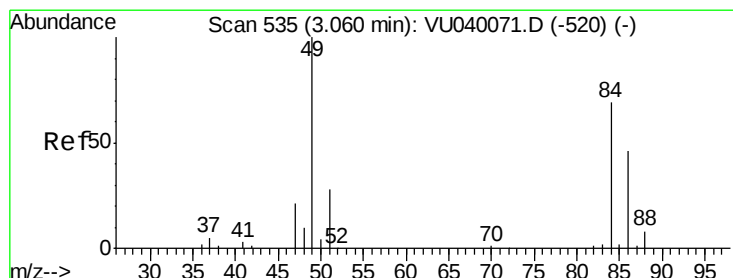
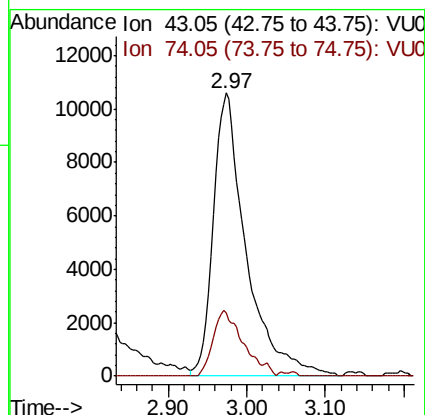
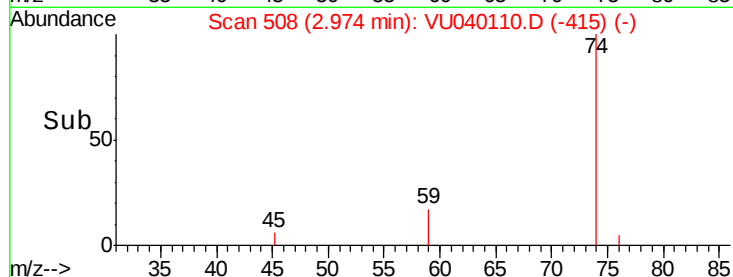
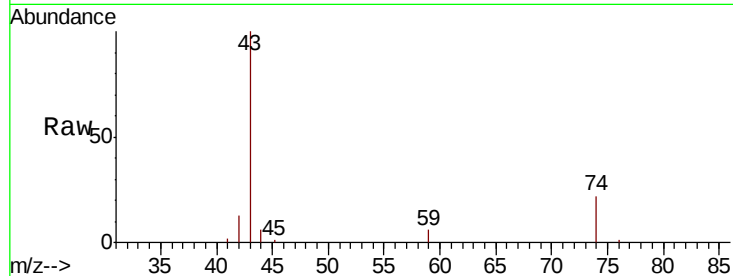




#15
Methyl Acetate
Concen: 5.096 ug/L
RT: 2.97 min Scan# 508
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

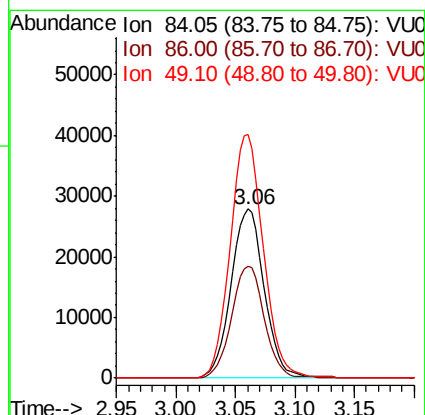
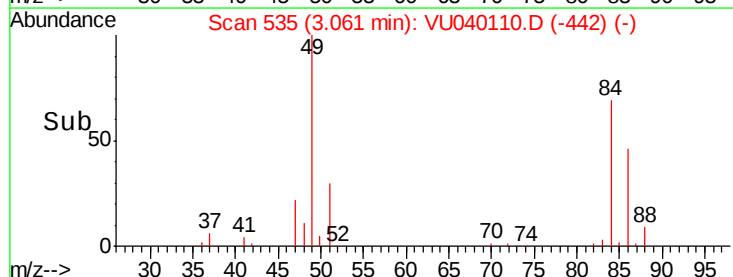
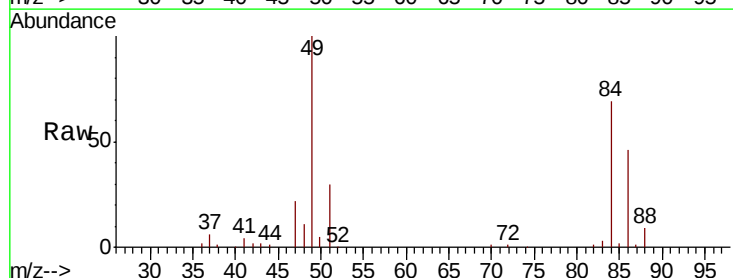
Instrument :
MSVOA_U
ClientSampleId :
VSTD00528

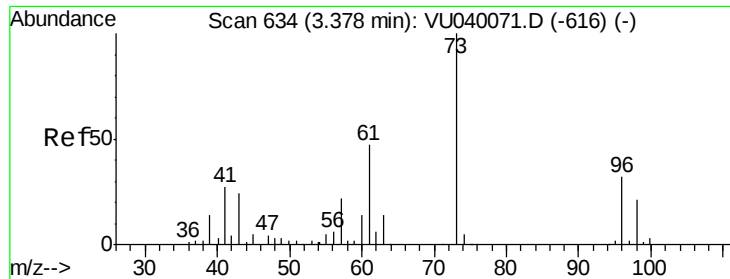
Tot Ion: 43 Resp: 30597
Ion Ratio Lower Upper
43 100
74 20.2 17.4 26.0



#16
Methylene chloride
Concen: 4.518 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

Tgt Ion: 84 Resp: 54185
Ion Ratio Lower Upper
84 100
86 66.6 45.2 84.0
49 144.3 104.0 193.2

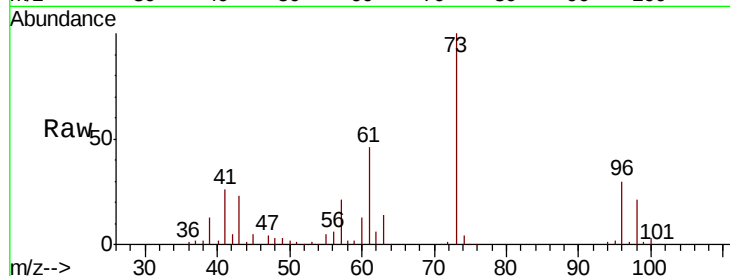




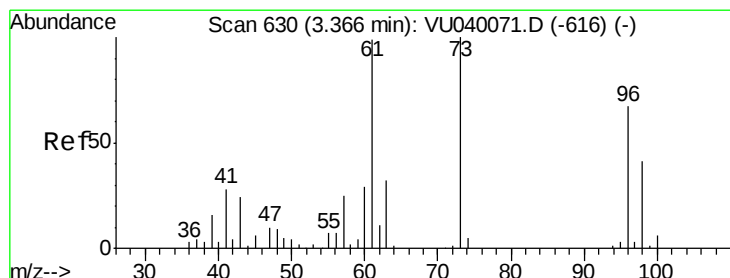
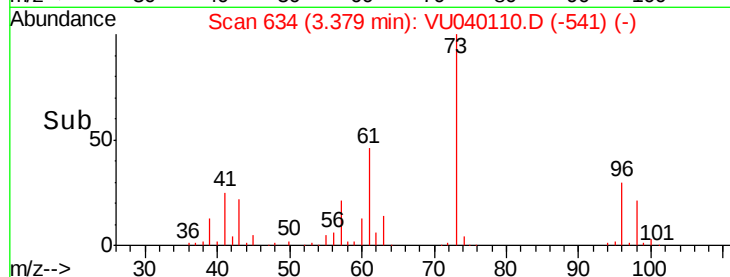
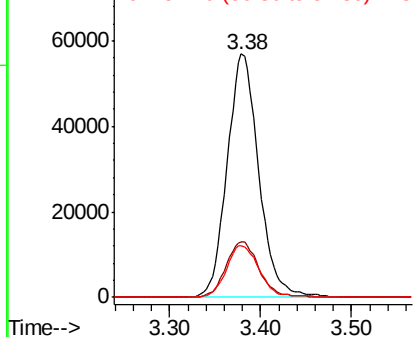
#17
Methvl tert-butvl Ether
Concen: 4.980 ug/L
RT: 3.38 min Scan# 634
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

Instrument :
MSVOA_U
ClientSampleId :
VSTD00528

Tot Ion: 73 Resp: 137470
Ion Ratio Lower Upper
73 100
43 24.0 19.1 28.7
57 22.0 18.3 27.5

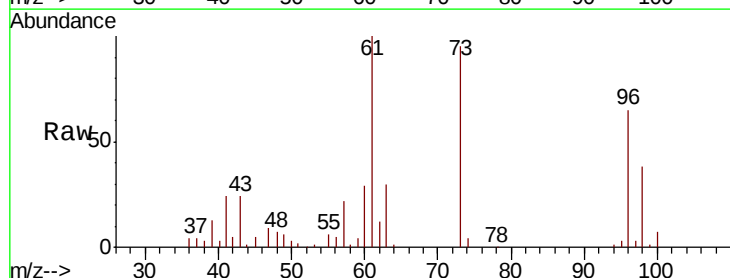


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

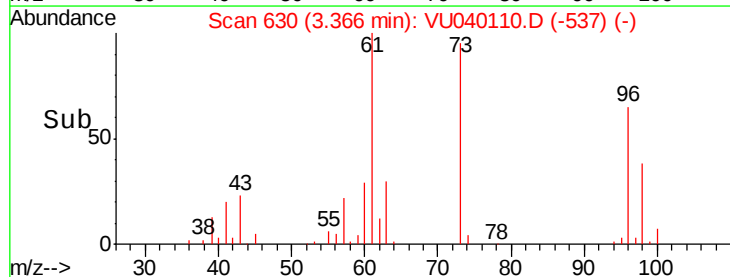
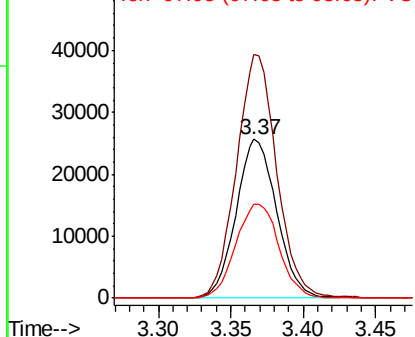


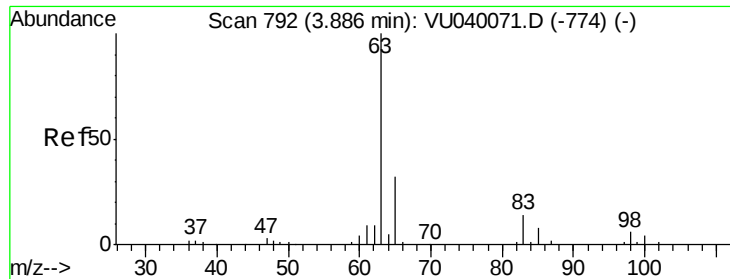
#18
trans-1,2-Dichloroethene
Concen: 5.066 ug/L
RT: 3.37 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

Tgt Ion: 96 Resp: 49907
Ion Ratio Lower Upper
96 100
61 153.2 110.5 205.3
98 58.9 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

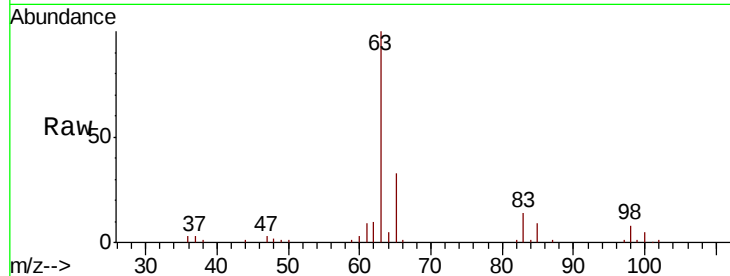




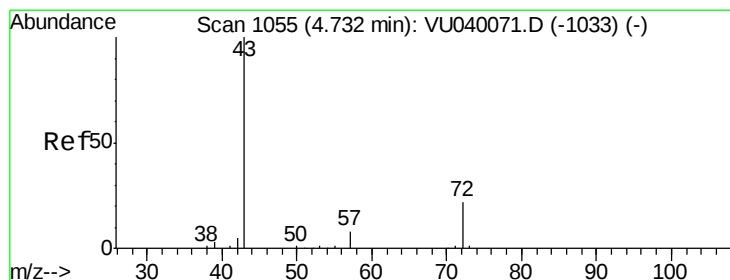
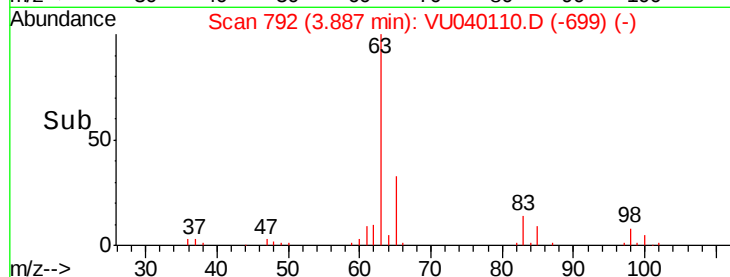
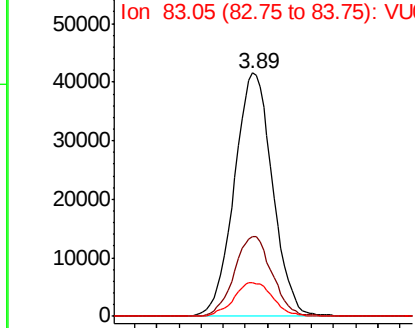
#19
 1,1-Dichloroethane
 Concen: 4.913 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00528

Tot Ion: 63 Resp: 99634
 Ion Ratio Lower Upper
 63 100
 65 32.6 22.2 41.2
 83 13.8 9.4 17.6

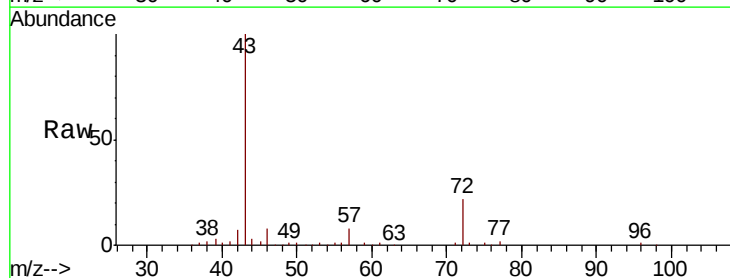


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

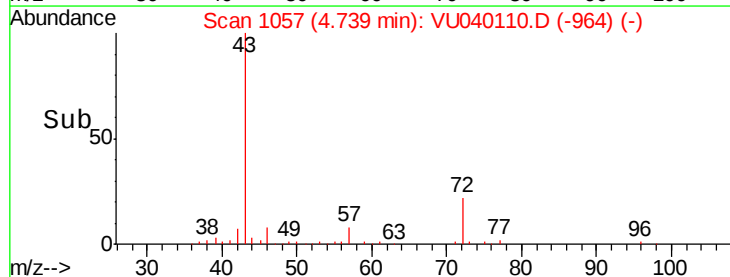
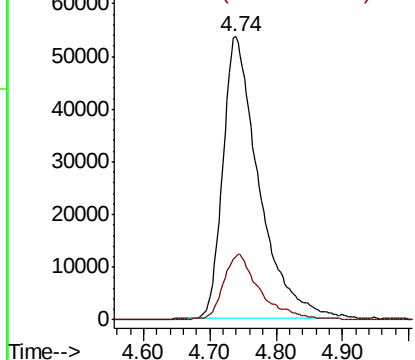


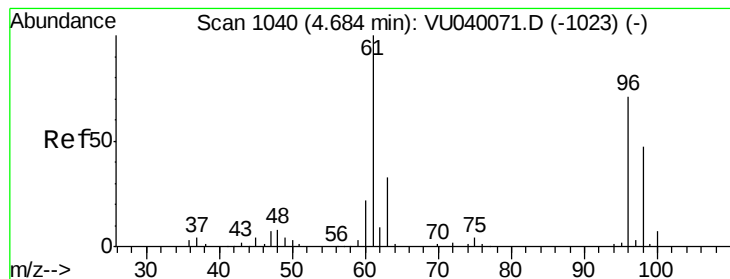
#21
 2-Butanone
 Concen: 51.715 ug/L
 RT: 4.74 min Scan# 1057
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Tgt Ion: 43 Resp: 201994
 Ion Ratio Lower Upper
 43 100
 72 22.4 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: 5.122 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00528

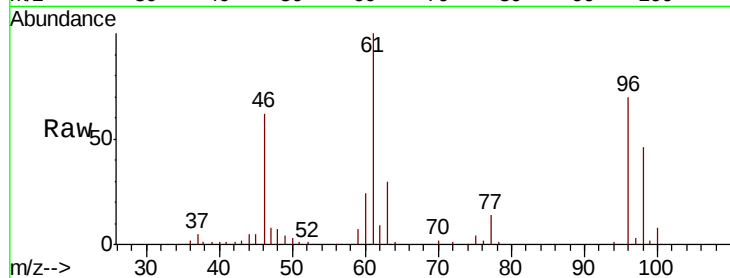
Tot Ion: 96 Resp: 54260

Ion Ratio Lower Upper

96 100

61 143.8 98.8 183.4

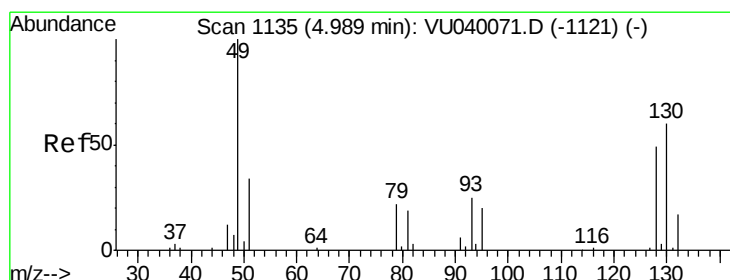
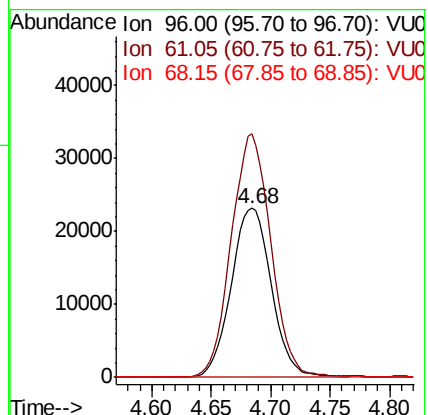
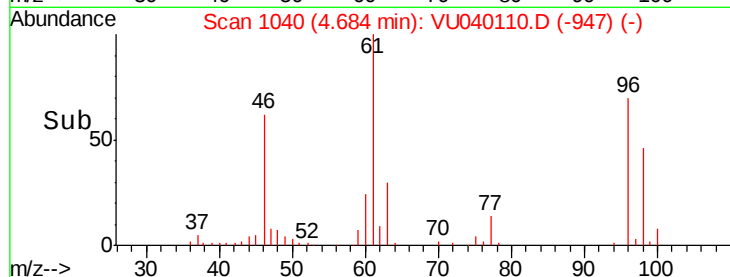
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040110.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040110.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040110.D (-947) (-)



#23

Bromochloromethane

Concen: 5.281 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Tgt Ion: 128 Resp: 24510

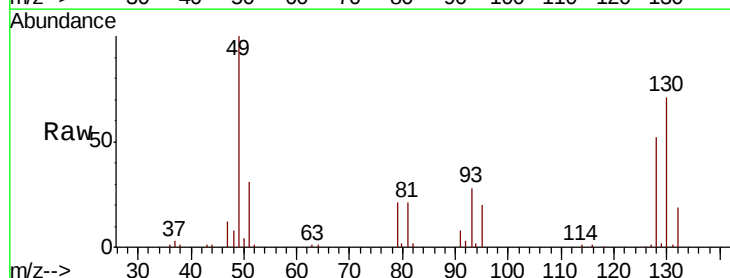
Ion Ratio Lower Upper

128 100

49 191.8 143.4 266.4

130 135.4 89.5 166.3

51 60.1 51.0 76.4

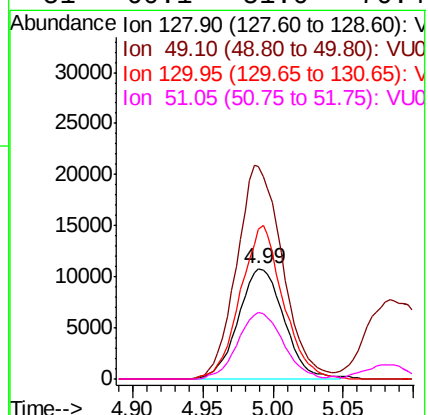
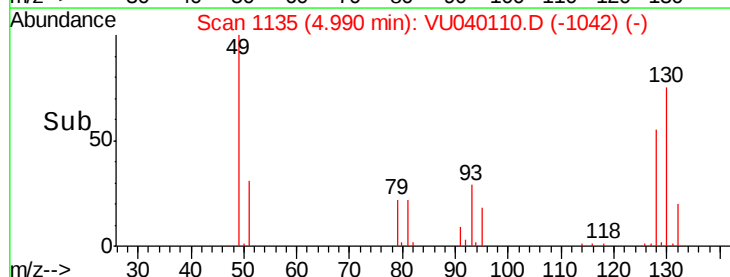


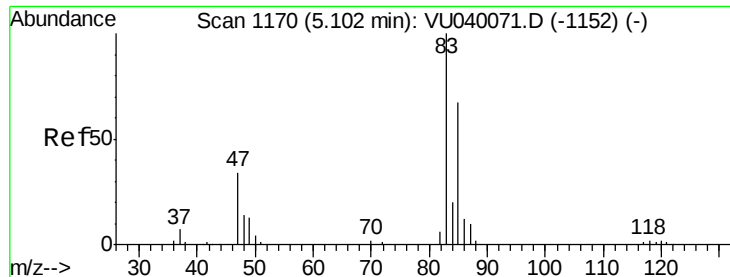
Abundance Ion 127.90 (127.60 to 128.60): VU040110.D (-1042) (-)

Ion 49.10 (48.80 to 49.80): VU040110.D (-1042) (-)

Ion 129.95 (129.65 to 130.65): VU040110.D (-1042) (-)

Ion 51.05 (50.75 to 51.75): VU040110.D (-1042) (-)

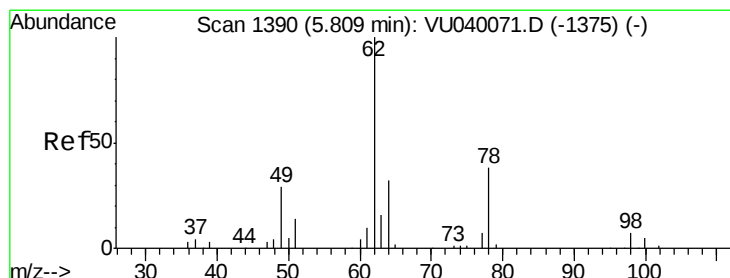
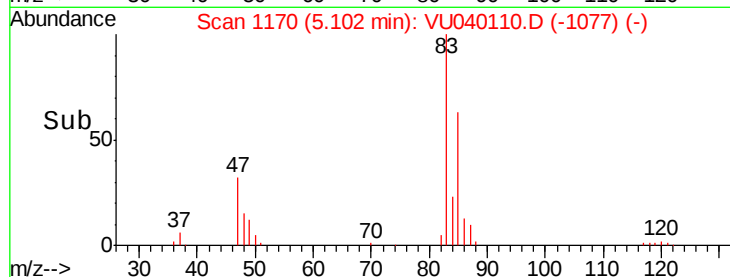
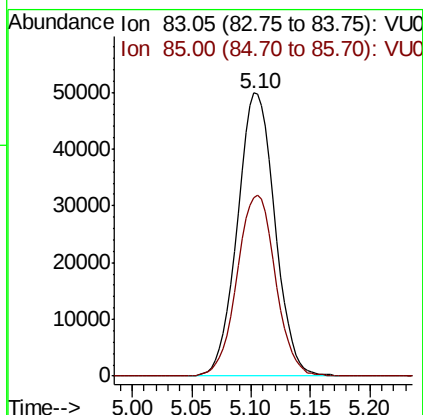
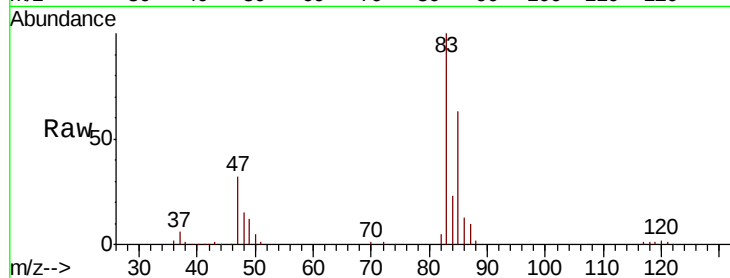




#25
Chloroform
Concen: 5.250 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

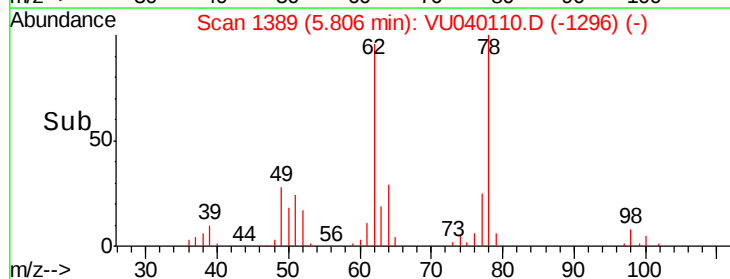
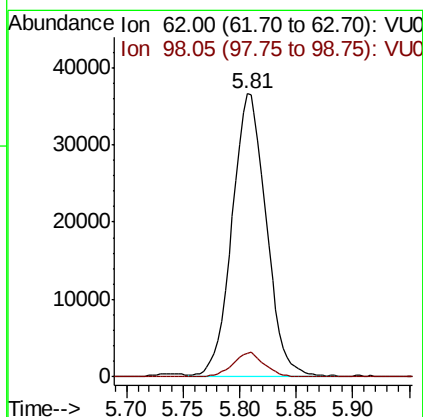
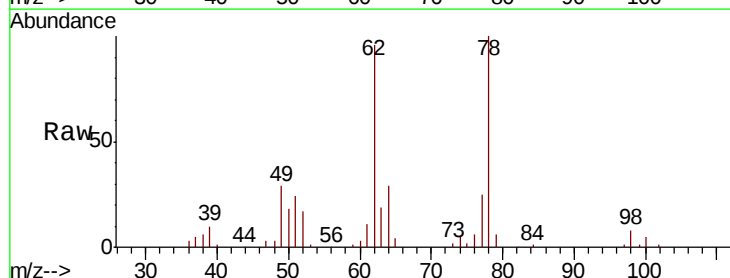
Instrument :
MSVOA_U
ClientSampled :
VSTD00528

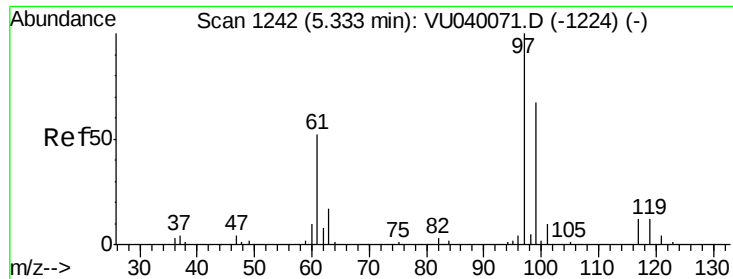
Tot Ion: 83 Resp: 109017
Ion Ratio Lower Upper
83 100
85 63.0 45.3 84.1



#27
1,2-Dichloroethane
Concen: 5.011 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

Tgt Ion: 62 Resp: 76242
Ion Ratio Lower Upper
62 100
98 8.4 6.1 9.1

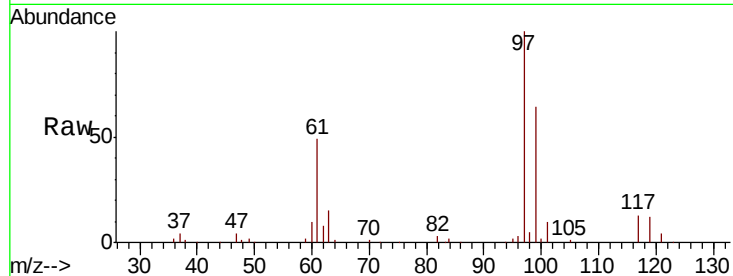




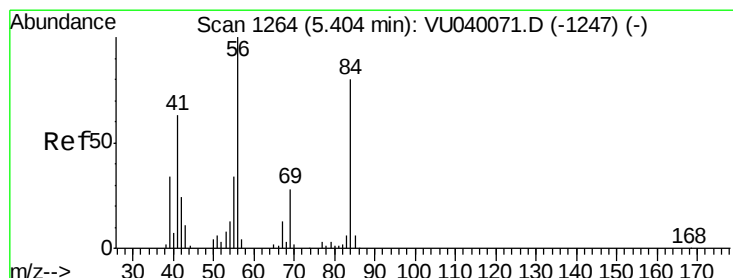
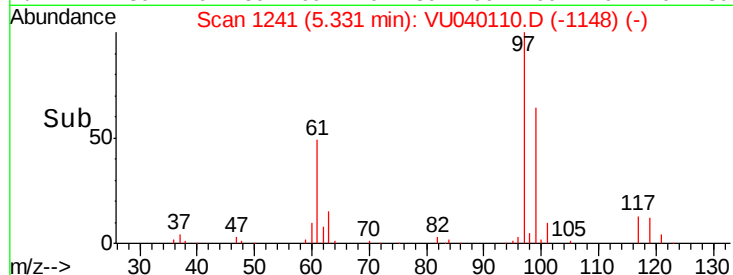
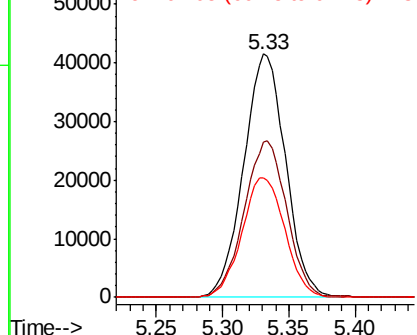
#29
 1,1,1-Trichloroethane
 Concen: 4.980 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00528

Tot Ion: 97 Resp: 91426
 Ion Ratio Lower Upper
 97 100
 99 65.1 50.9 76.3
 61 50.3 39.5 59.3

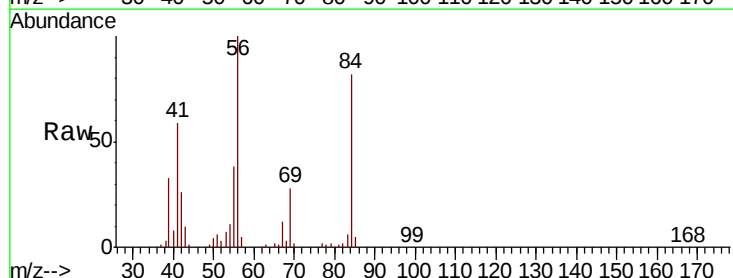


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

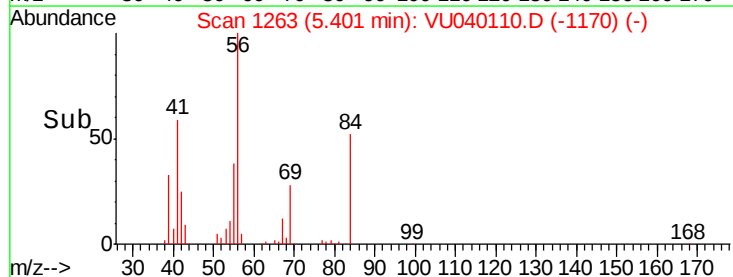
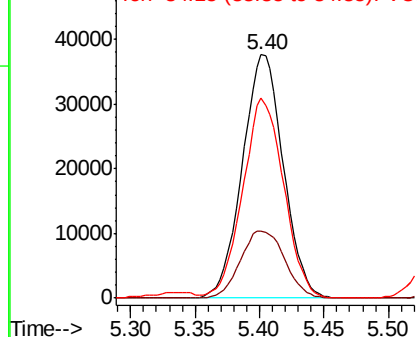


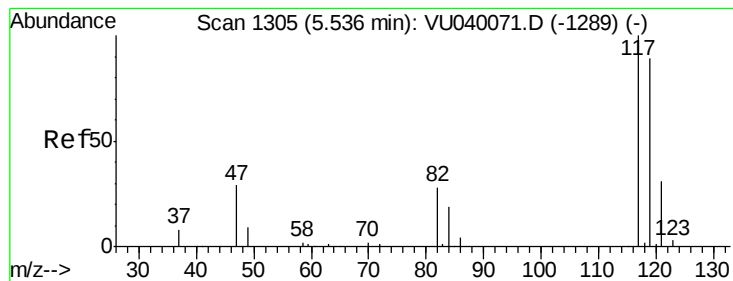
#30
 Cyclohexane
 Concen: 4.671 ug/L
 RT: 5.40 min Scan# 1263
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Tgt Ion: 56 Resp: 83163
 Ion Ratio Lower Upper
 56 100
 69 29.9 24.1 36.1
 84 82.6 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: 4.944 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

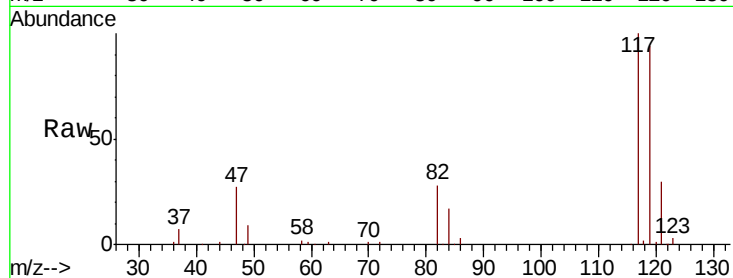
VSTD00528

Tot Ion:117 Resp: 77678

Ion Ratio Lower Upper

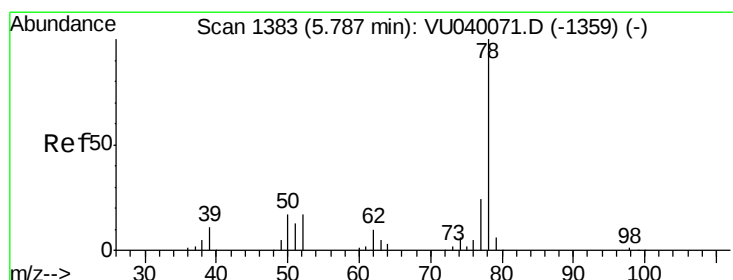
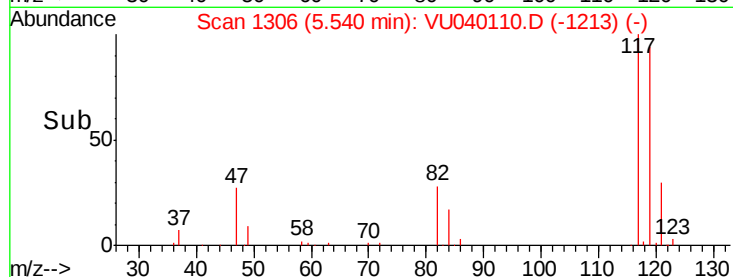
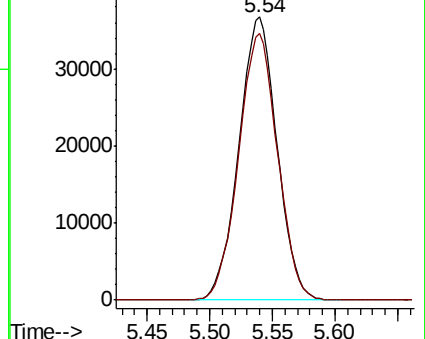
117 100

119 95.9 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: 5.099 ug/L

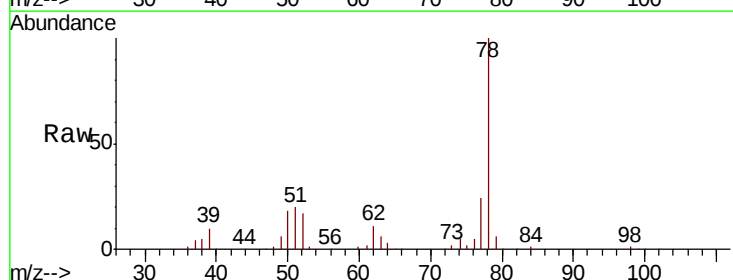
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

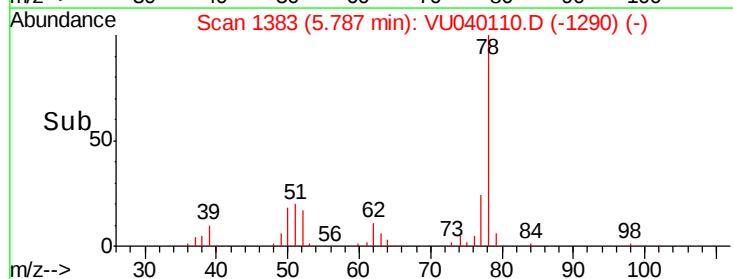
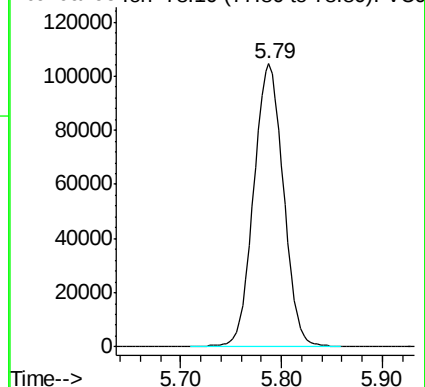
Lab File: VU040110.D

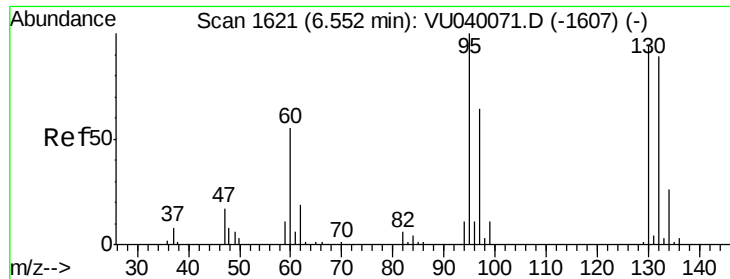
Acq: 14 Sep 2020 10:14

Tgt Ion: 78 Resp: 213270



Abundance Ion 78.10 (77.80 to 78.80): VU0

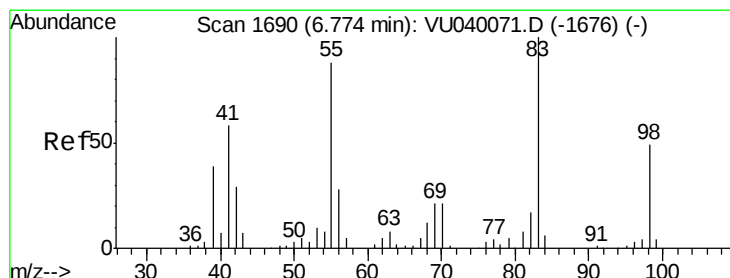
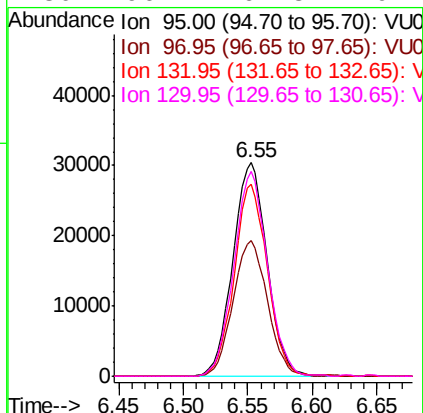
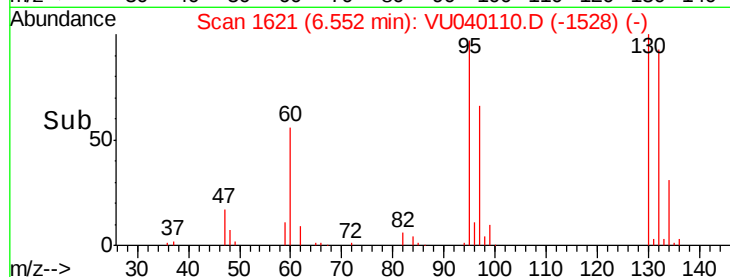
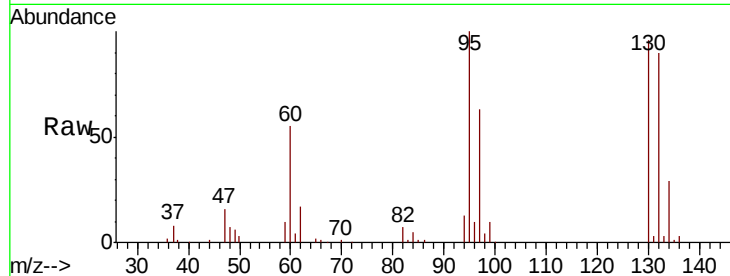




#34
 Trichloroethene
 Concen: 4.992 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

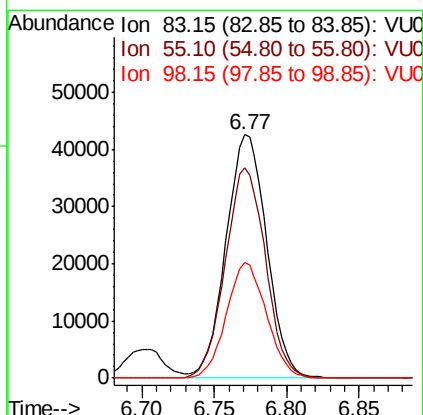
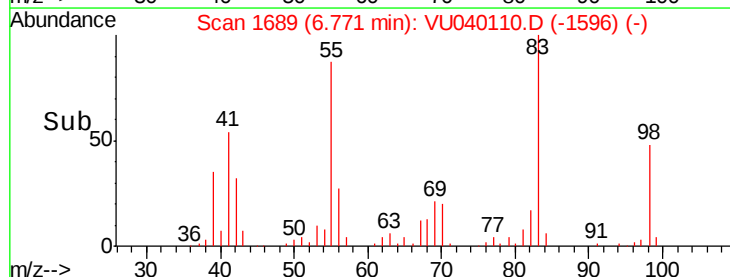
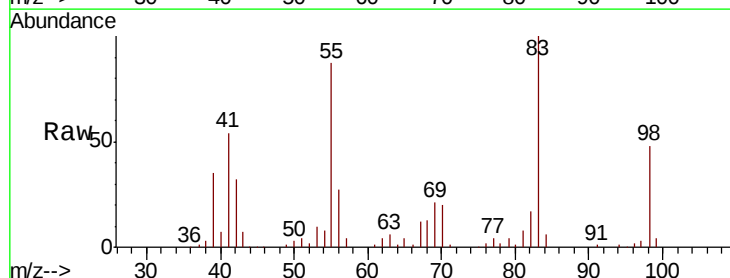
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00528

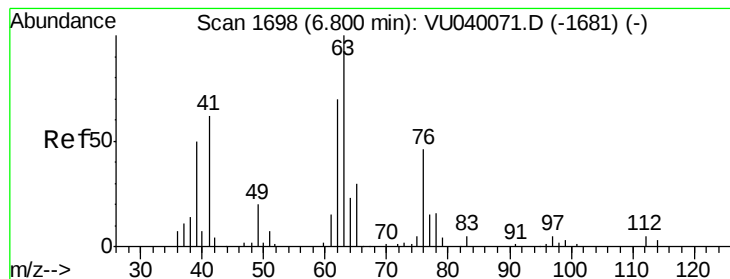
Tot Ion: 95 Resp: 56012
 Ion Ratio Lower Upper
 95 100
 97 63.3 43.3 80.5
 132 89.6 59.4 110.4
 130 96.2 64.8 120.4



#35
 Methylcyclohexane
 Concen: 4.850 ug/L
 RT: 6.77 min Scan# 1689
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Tgt Ion: 83 Resp: 83329
 Ion Ratio Lower Upper
 83 100
 55 85.2 70.5 105.7
 98 46.7 37.8 56.6





#37

1,2-Dichloropropane

Concen: 5.047 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

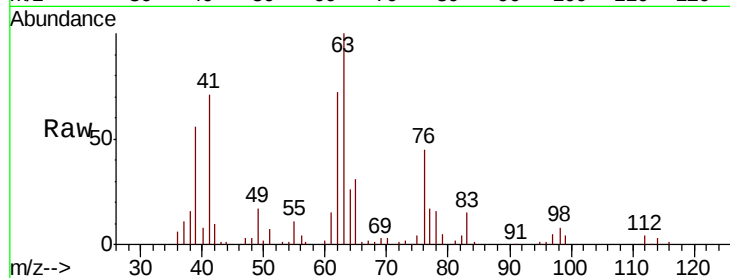
VSTD00528

Tot Ion: 63 Resp: 57167

Ion Ratio Lower Upper

63 100

112 4.0 3.2 4.8



Abundance Ion 63.10 (62.80 to 63.80): VU040110.D (-1681) (-)

Ion 112.10 (111.80 to 112.80): VU040110.D (-1681) (-)

30000

20000

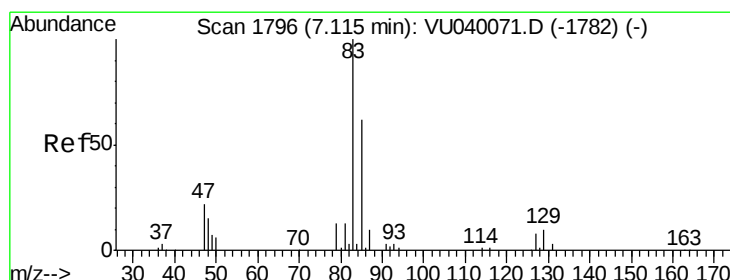
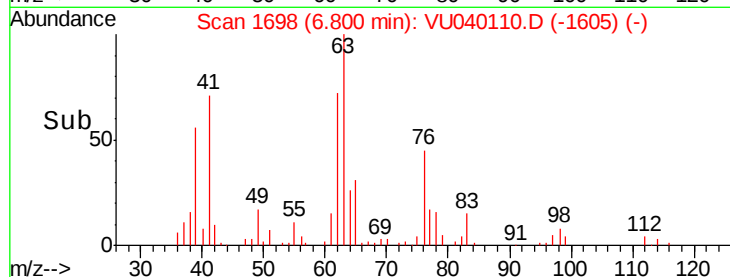
10000

0

6.80

6.70 6.75 6.80 6.85

Time-->



#38

Bromodichloromethane

Concen: 4.915 ug/L

RT: 7.12 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

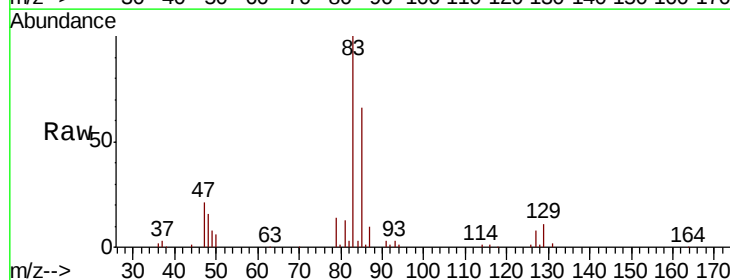
Tgt Ion: 83 Resp: 75996

Ion Ratio Lower Upper

83 100

85 66.1 45.1 83.9

127 8.4 6.7 10.1



Abundance Ion 82.95 (82.65 to 83.65): VU040110.D (-1782) (-)

Ion 85.00 (84.70 to 85.70): VU040110.D (-1782) (-)

Ion 126.90 (126.60 to 127.60): VU040110.D (-1782) (-)

50000

40000

30000

20000

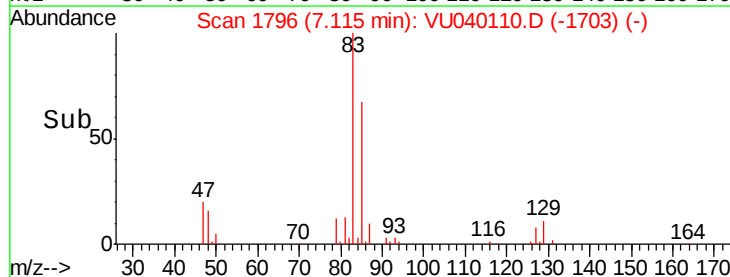
10000

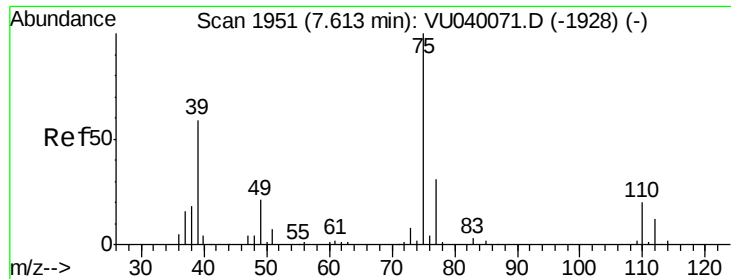
0

7.12

7.05 7.10 7.15 7.20

Time-->

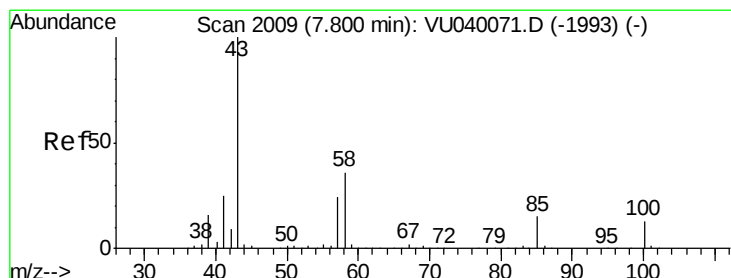
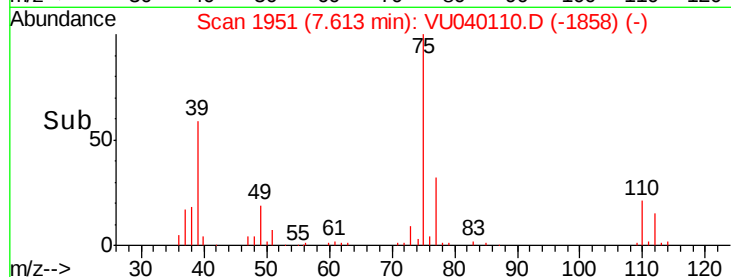
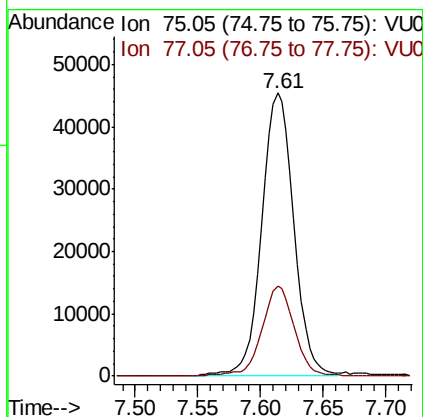
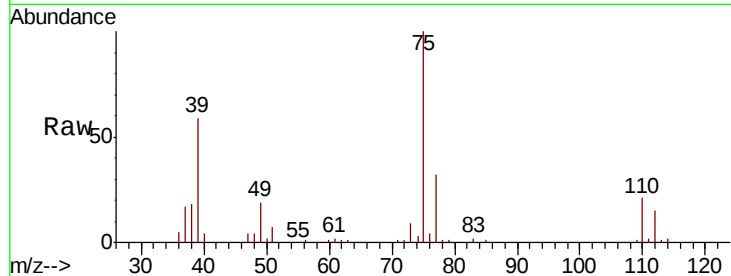




#39
 cis-1,3-Dichloropropene
 Concen: 4.856 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

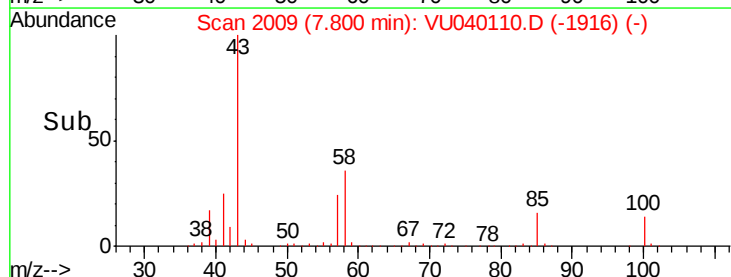
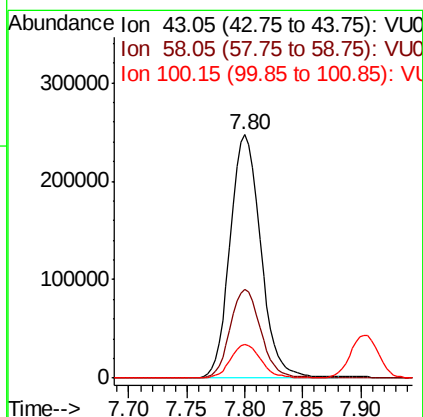
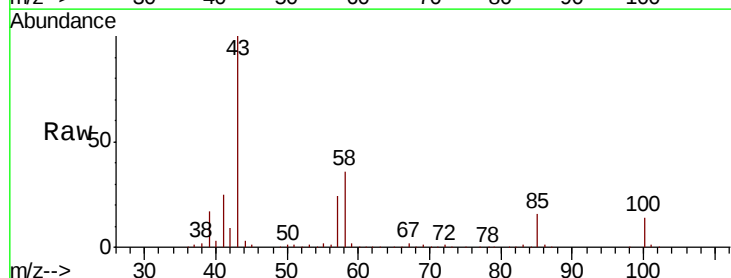
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00528

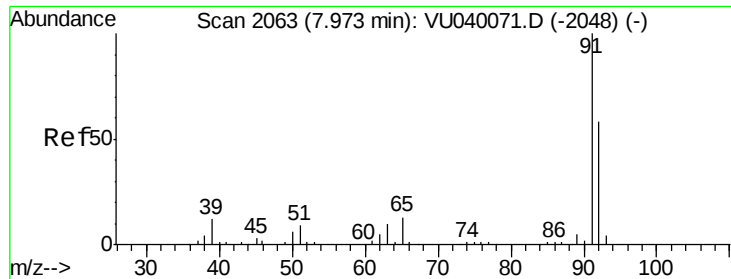
Tot Ion: 75 Resp: 81103
 Ion Ratio Lower Upper
 75 100
 77 32.0 21.1 39.3



#40
 4-Methyl-2-pentanone
 Concen: 48.916 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Tgt Ion: 43 Resp: 454563
 Ion Ratio Lower Upper
 43 100
 58 36.6 28.7 43.1
 100 13.8 10.2 15.2





#42

Toluene

Concen: 5.138 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

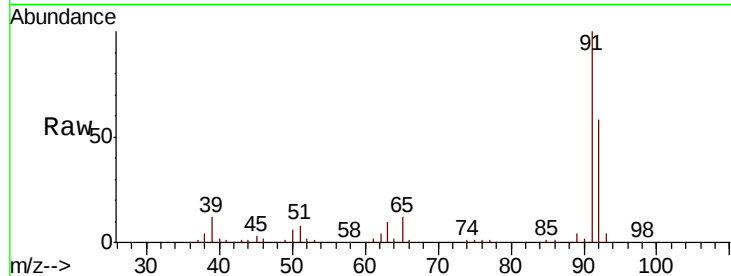
VSTD00528

Tot Ion: 91 Resp: 221324

Ion Ratio Lower Upper

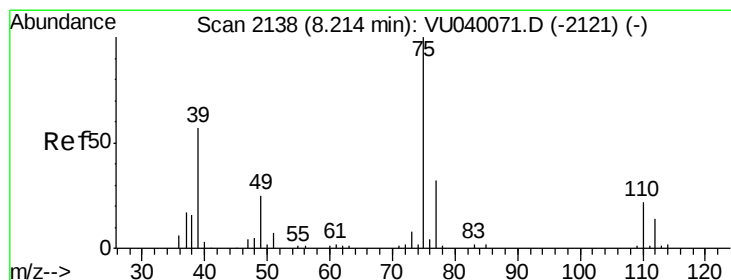
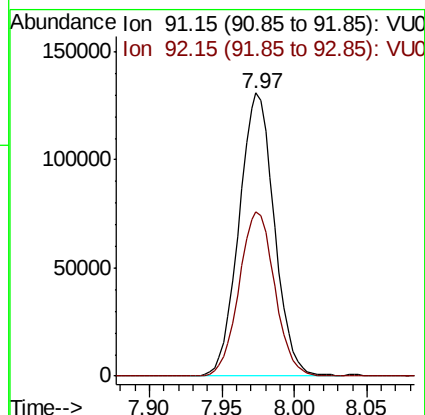
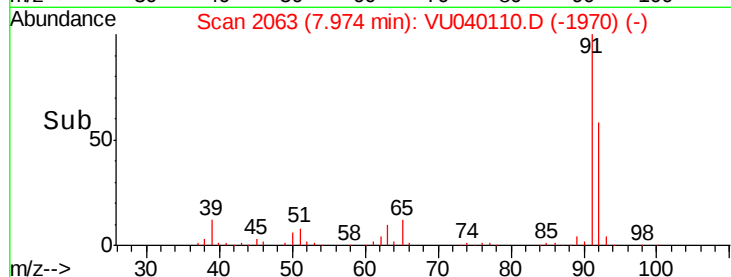
91 100

92 58.3 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU040110.D (-1970) (-)

Ion 92.15 (91.85 to 92.85): VU040110.D (-1970) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.939 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU040110.D

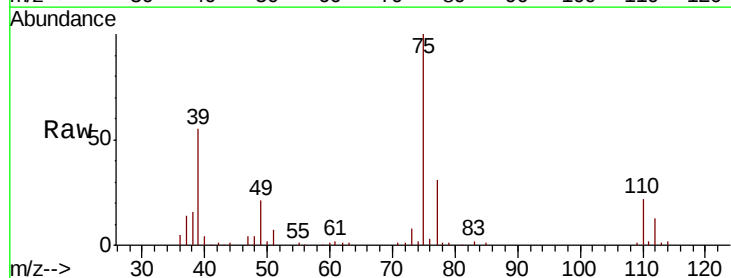
Acq: 14 Sep 2020 10:14

Tgt Ion: 75 Resp: 76447

Ion Ratio Lower Upper

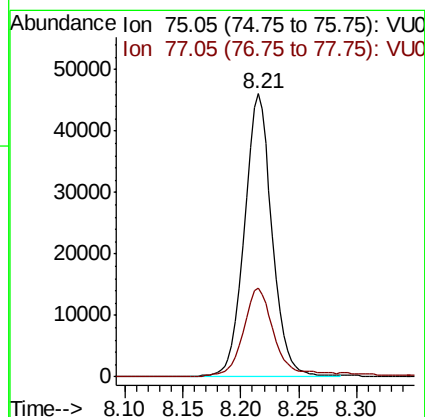
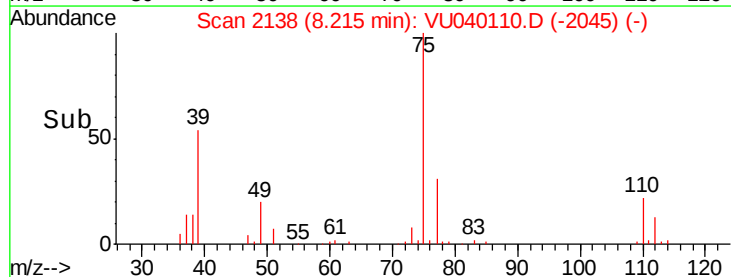
75 100

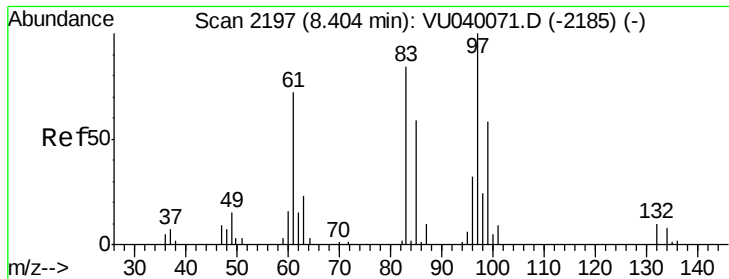
77 31.3 23.9 44.3



Abundance Ion 75.05 (74.75 to 75.75): VU040110.D (-2045) (-)

Ion 77.05 (76.75 to 77.75): VU040110.D (-2045) (-)

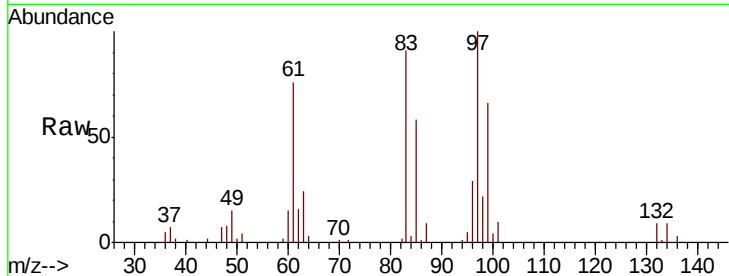




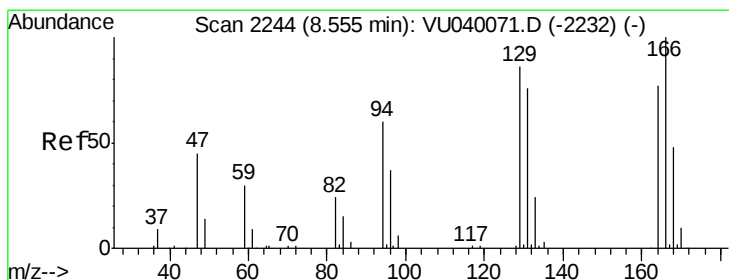
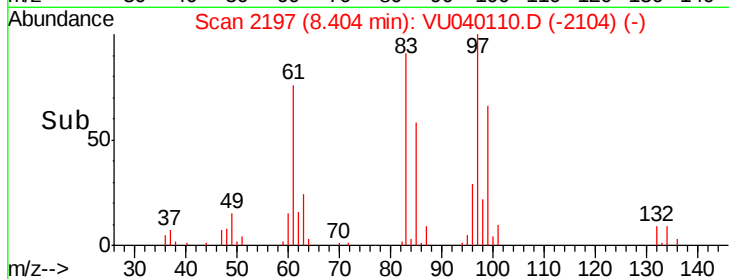
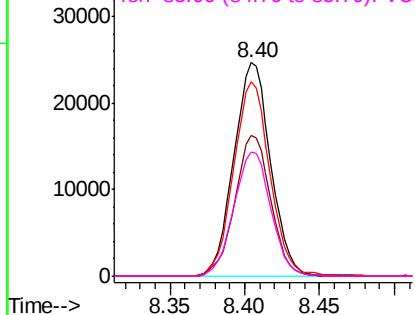
#45
 1,1,2-Trichloroethane
 Concen: 5.126 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00528

Tot Ion:	97	Resp:	42293
Ion	Ratio	Lower	Upper
97	100		
99	66.1	43.0	79.8
83	91.1	61.7	114.7
85	58.2	39.3	73.1

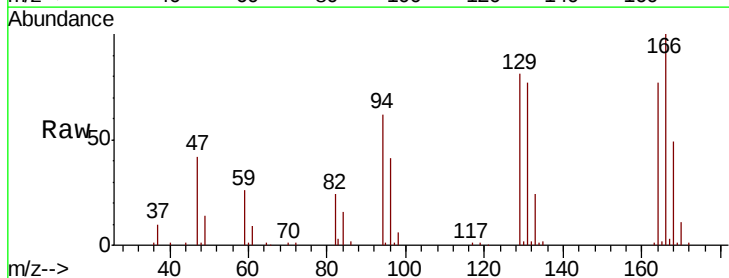


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

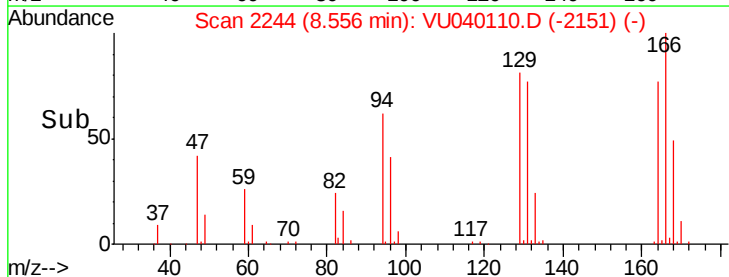
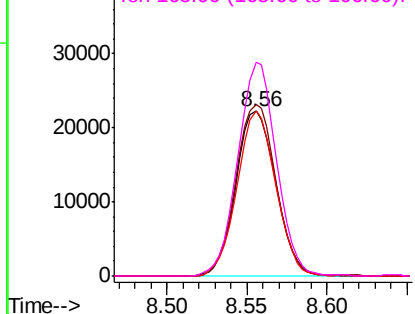


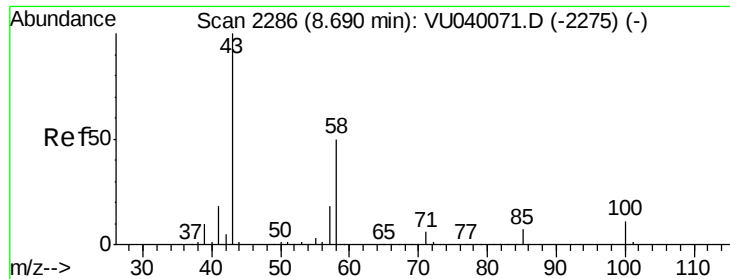
#47
 Tetrachloroethene
 Concen: 5.125 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Tgt Ion:	164	Resp:	37771
Ion	Ratio	Lower	Upper
164	100		
129	104.6	71.5	132.7
131	100.0	65.9	122.5
166	129.8	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

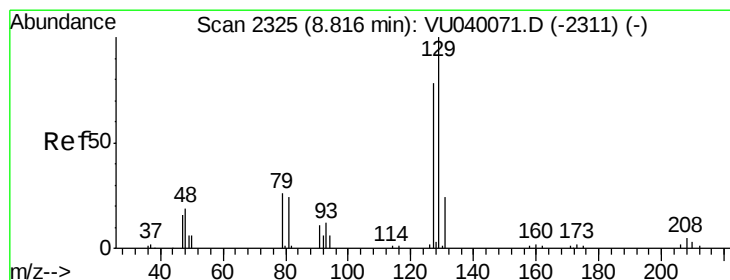
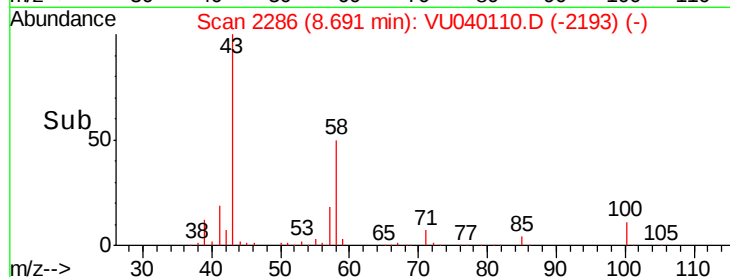
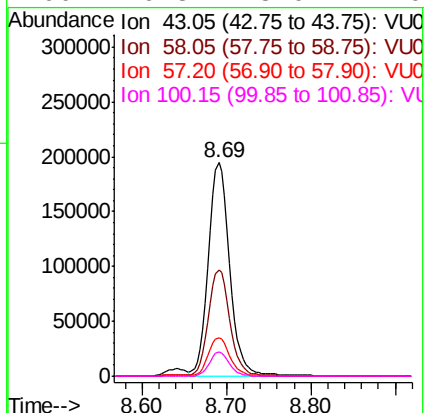
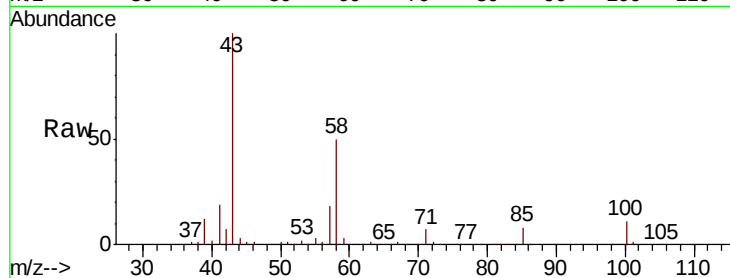




#48
2-Hexanone
Concen: 50.791 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

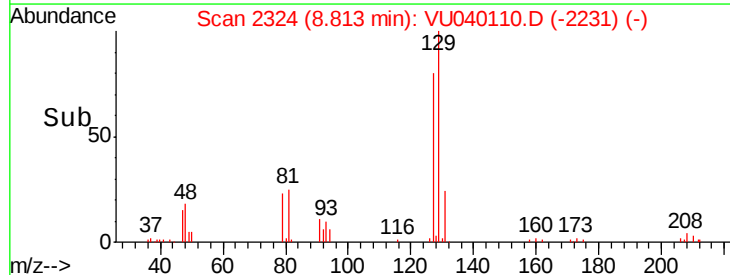
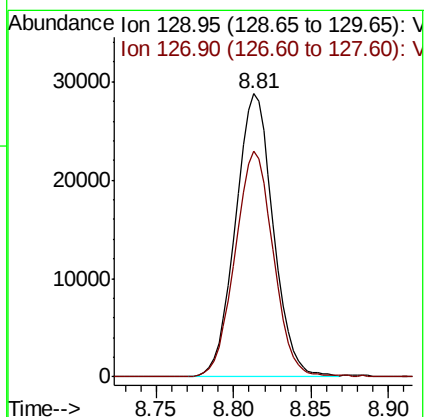
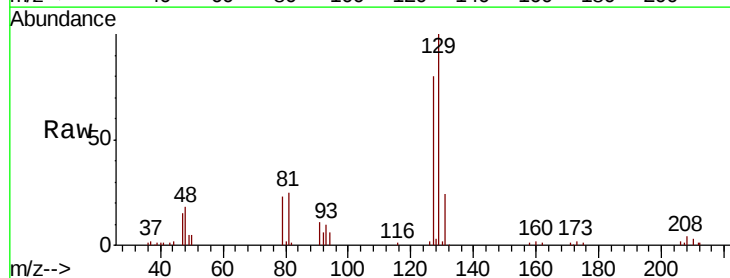
Instrument :
MSVOA_U
ClientSampleId :
VSTD00528

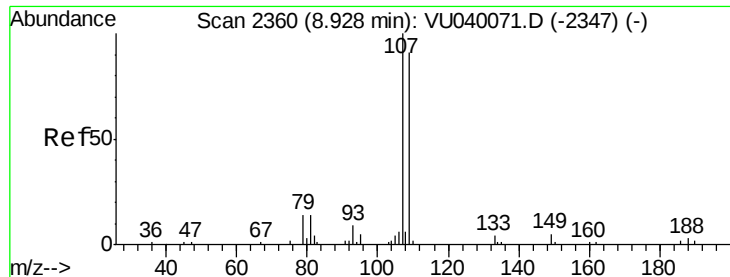
Tot Ion: 43 Resp: 344283
Ion Ratio Lower Upper
43 100
58 50.5 39.6 59.4
57 17.9 14.3 21.5
100 10.8 8.0 12.0



#49
Dibromochloromethane
Concen: 4.937 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. 0.00 min
Lab File: VU040110.D
Acq: 14 Sep 2020 10:14

Tgt Ion: 129 Resp: 48891
Ion Ratio Lower Upper
129 100
127 79.6 53.7 99.7

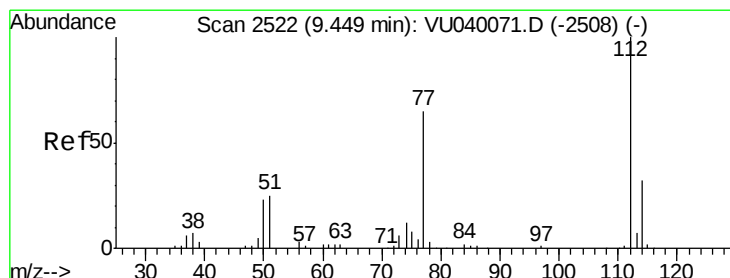
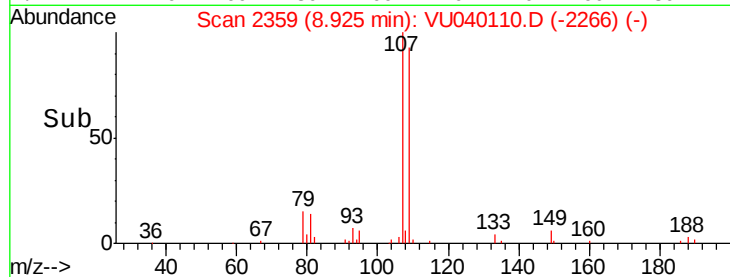
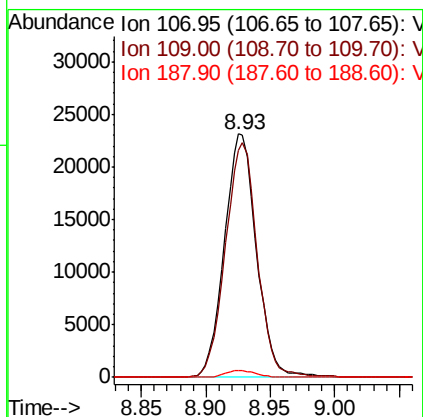
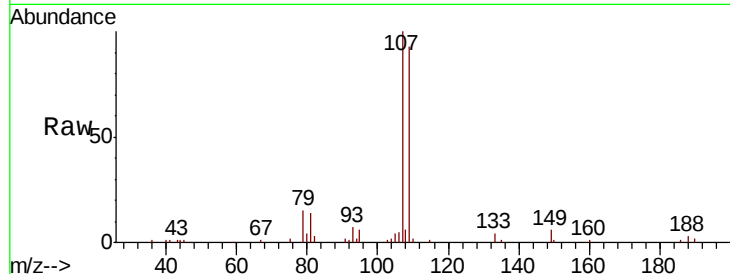




#50
 1,2-Dibromoethane
 Concen: 5.017 ug/L
 RT: 8.93 min Scan# 2359
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

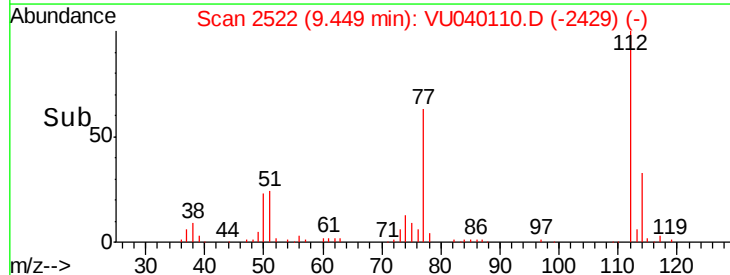
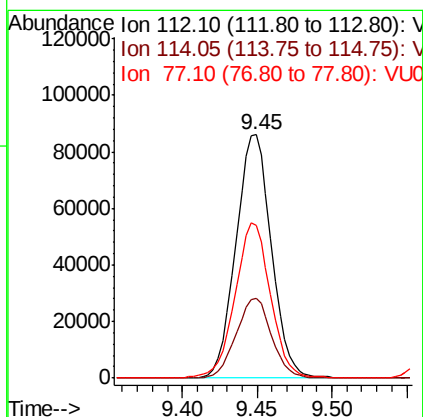
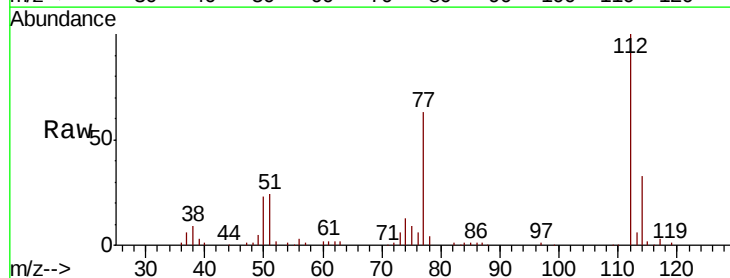
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00528

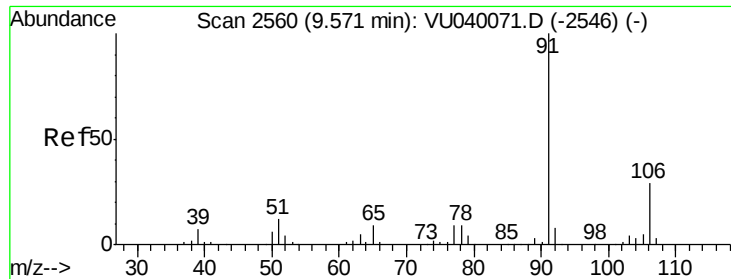
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	62.4	115.8
188	3.0	2.3	3.5



#51
 Chlorobenzene
 Concen: 5.318 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.9	22.7	42.3
77	62.9	53.2	79.8





#52

Ethylbenzene

Concen: 5.026 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

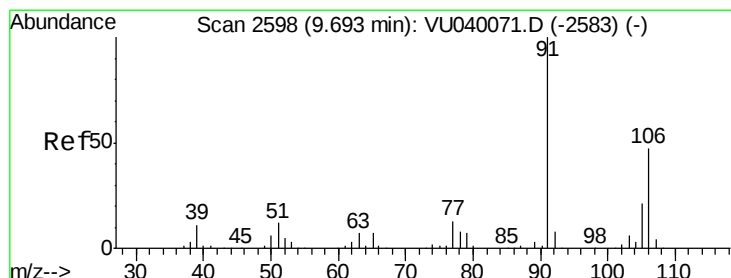
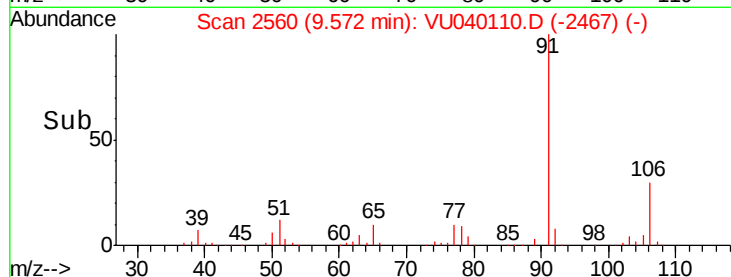
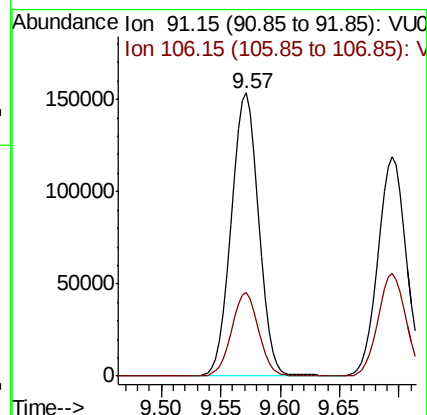
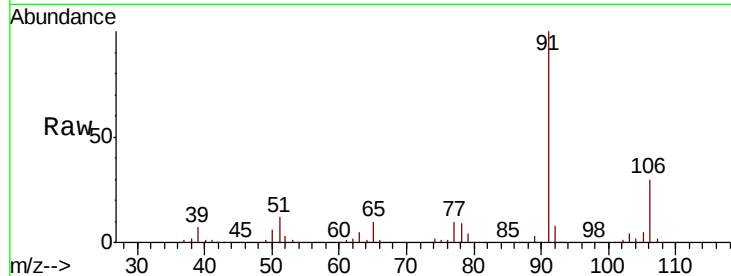
VSTD00528

Tot Ion: 91 Resp: 245967

Ion Ratio Lower Upper

91 100

106 29.6 21.0 39.0



#53

m,p-Xylene

Concen: 5.239 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040110.D

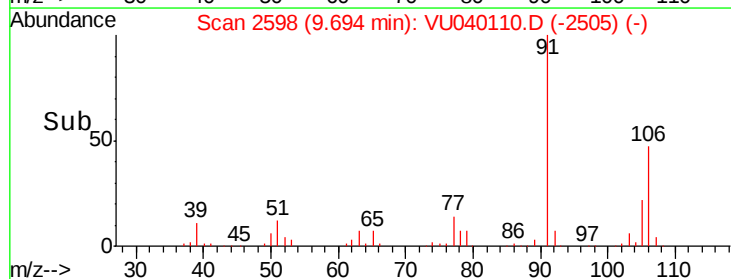
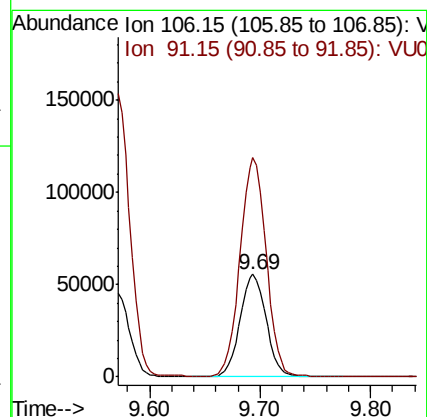
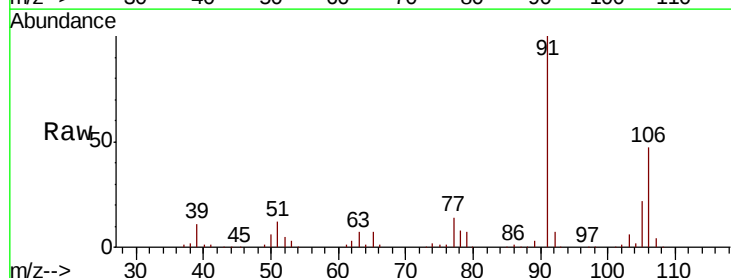
Acq: 14 Sep 2020 10:14

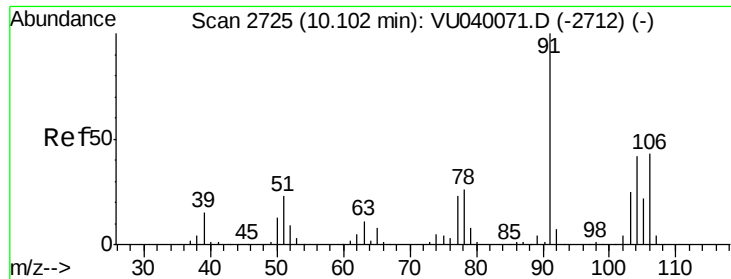
Tgt Ion: 106 Resp: 91288

Ion Ratio Lower Upper

106 100

91 214.2 151.7 281.7





#54

o-Xylene

Concen: 5.354 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

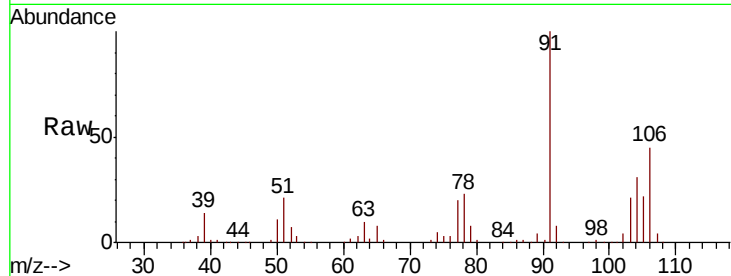
VSTD00528

Tot Ion:106 Resp: 88898

Ion Ratio Lower Upper

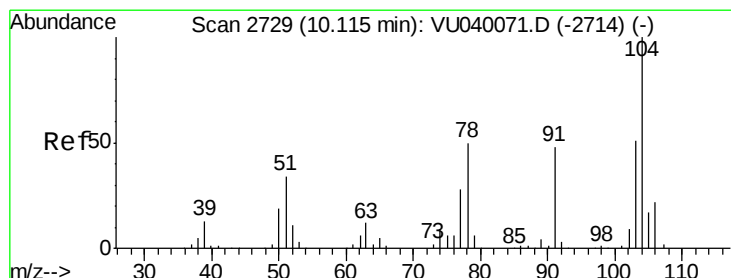
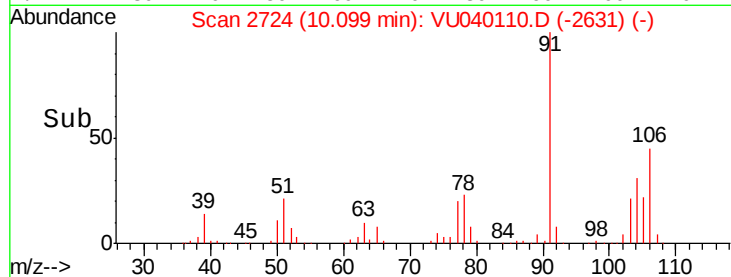
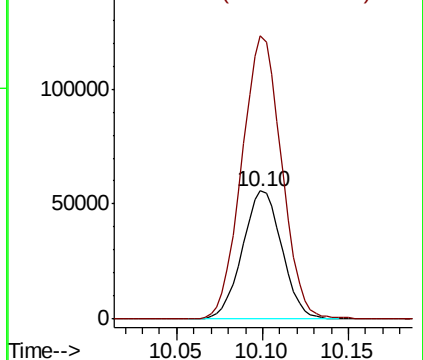
106 100

91 220.8 160.8 298.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.429 ug/L

RT: 10.11 min Scan# 2728

Delta R.T. 0.00 min

Lab File: VU040110.D

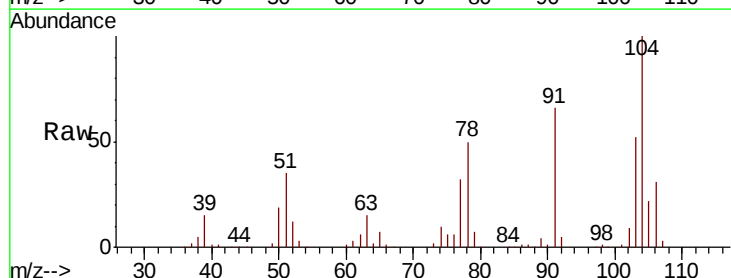
Acq: 14 Sep 2020 10:14

Tgt Ion:104 Resp: 156765

Ion Ratio Lower Upper

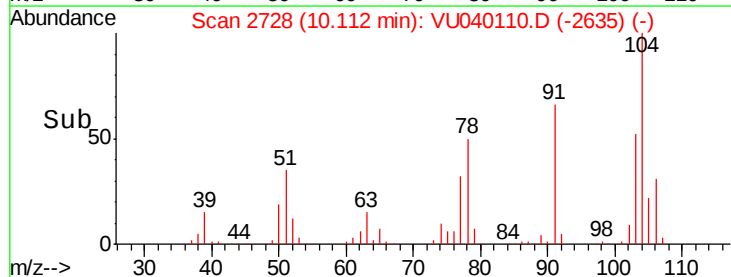
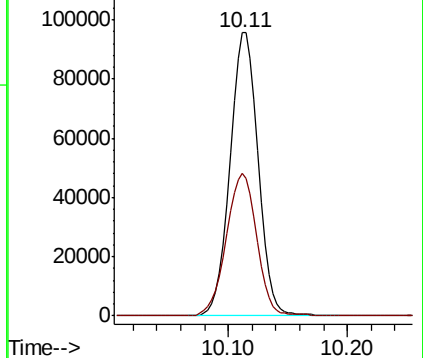
104 100

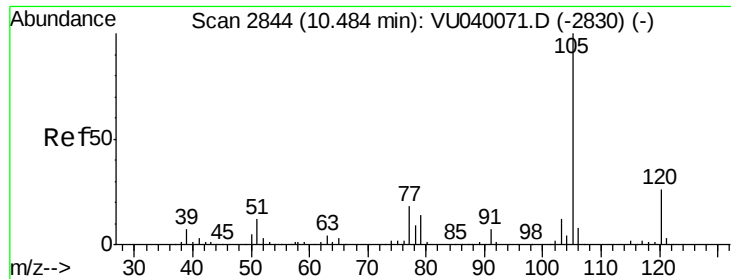
78 50.3 36.8 68.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.361 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00528

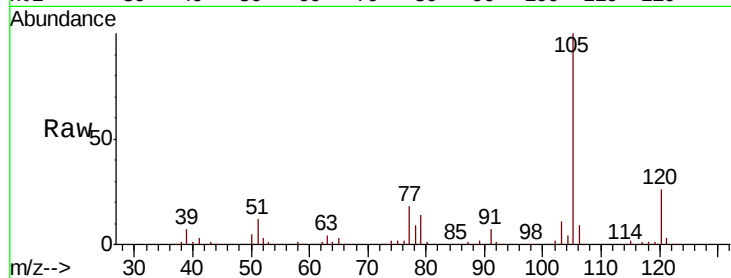
Tot Ion:105 Resp: 242792

Ion Ratio Lower Upper

105 100

120 25.3 20.1 30.1

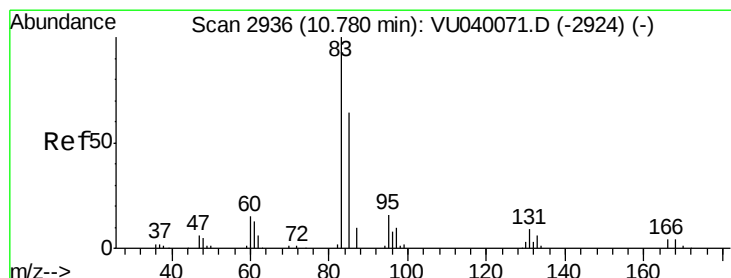
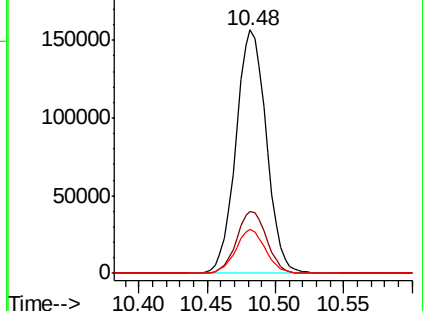
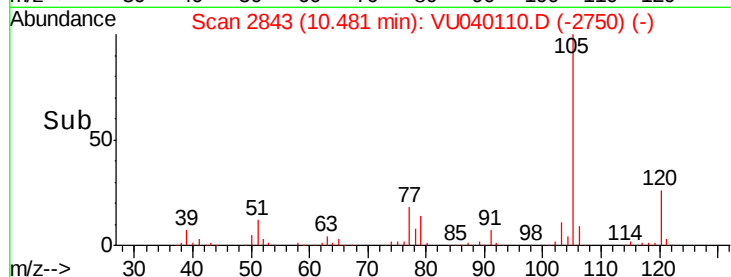
77 17.6 14.4 21.6



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: 5.123 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

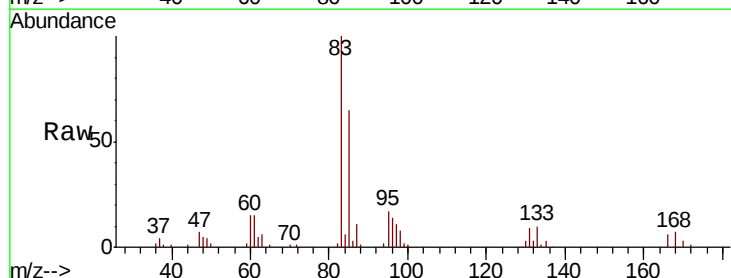
Tgt Ion: 83 Resp: 54202

Ion Ratio Lower Upper

83 100

85 64.9 44.9 83.3

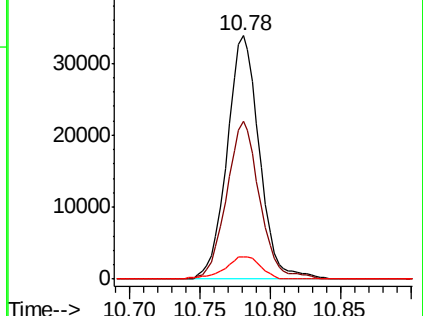
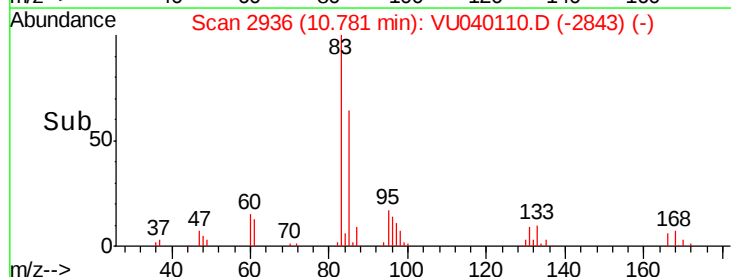
131 9.3 7.4 11.0

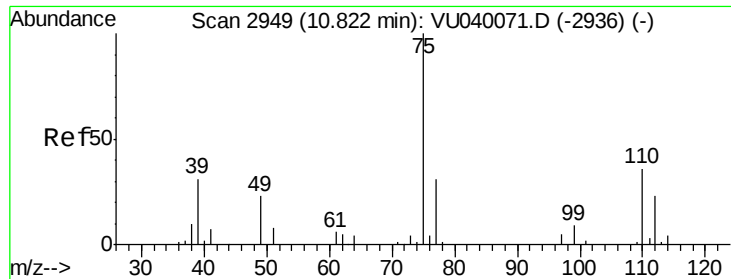


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.048 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

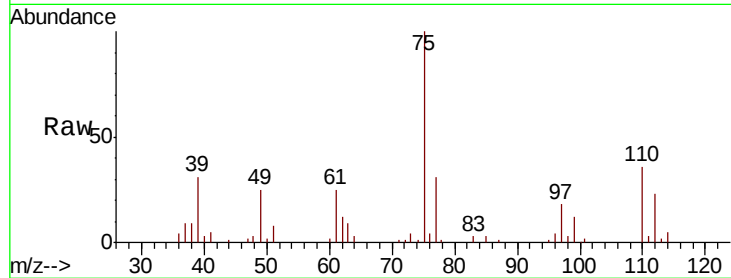
VSTD00528

Tot Ion: 75 Resp: 42360

Ion Ratio Lower Upper

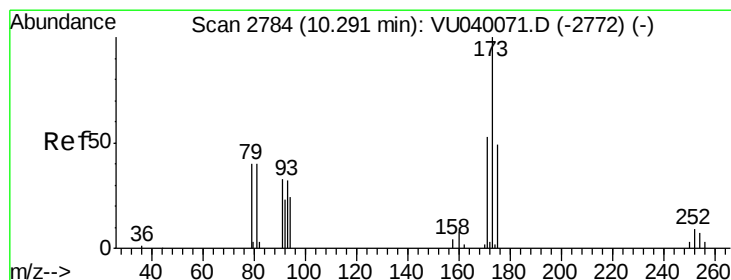
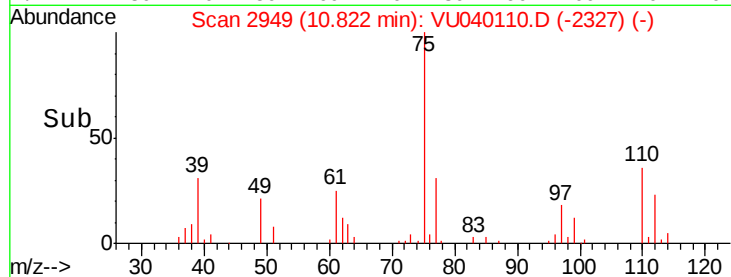
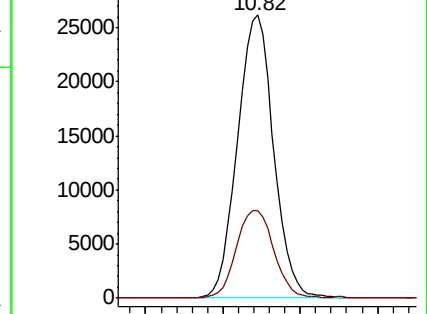
75 100

77 32.3 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VU040071.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040071.D (-2936) (-)



#61

Bromoform

Concen: 4.741 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

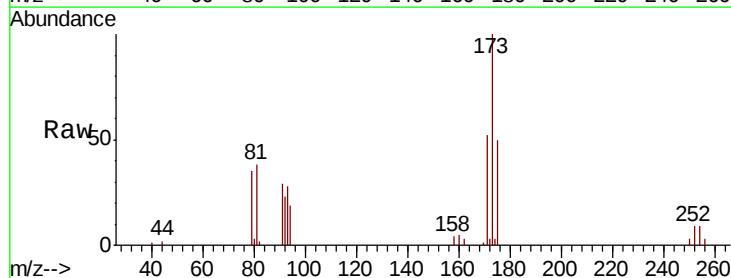
Tgt Ion:173 Resp: 25100

Ion Ratio Lower Upper

173 100

175 48.3 37.8 56.6

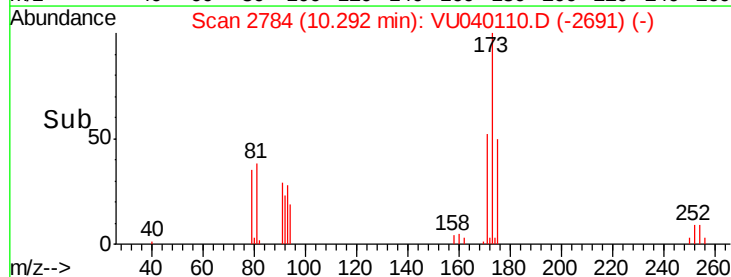
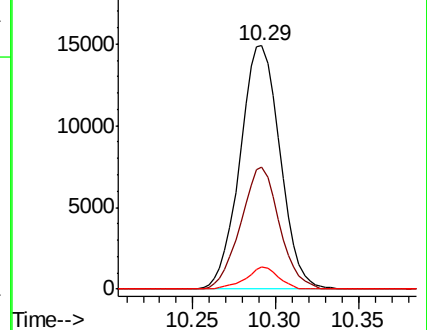
254 7.3 6.8 10.2

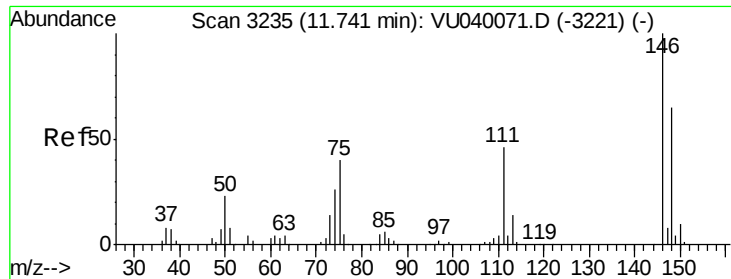


Abundance Ion 172.90 (172.60 to 173.60): VU040071.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU040071.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU040071.D (-2772) (-)

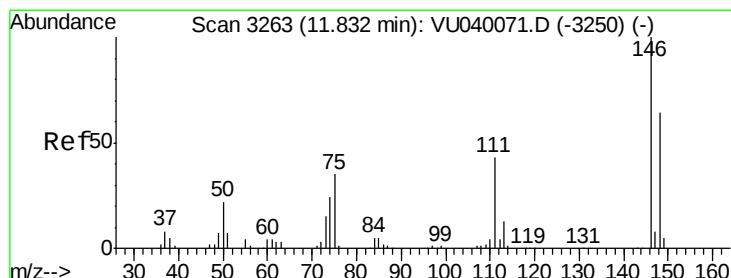
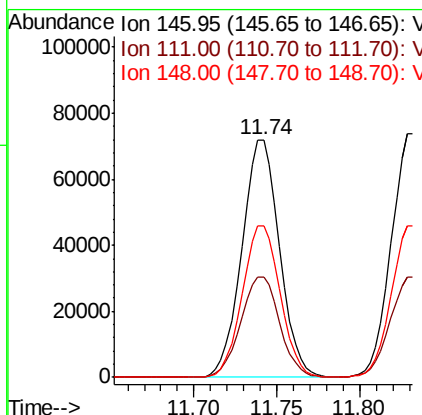
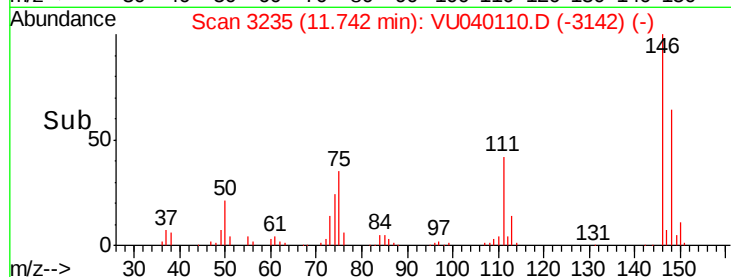
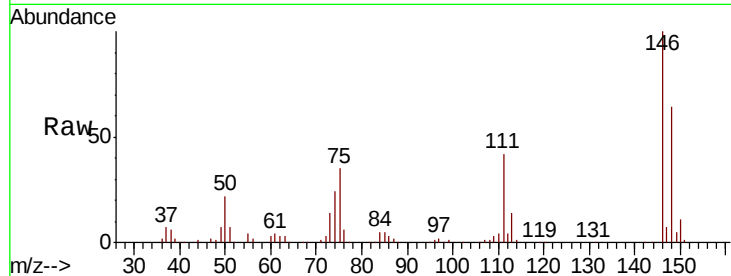




#62
 1,3-Dichlorobenzene
 Concen: 5.367 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

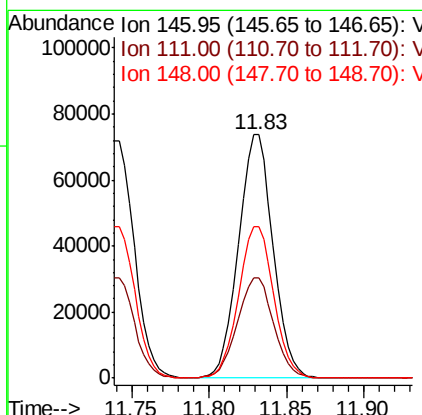
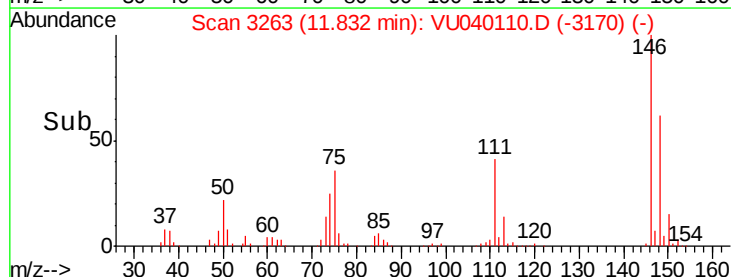
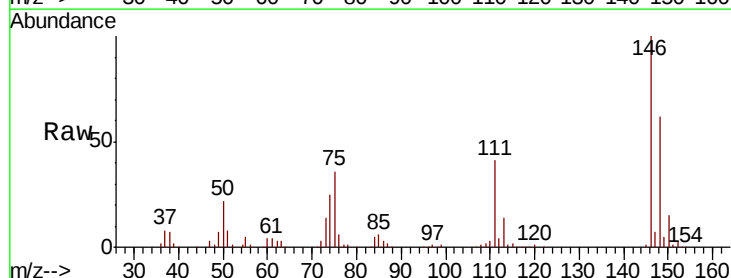
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00528

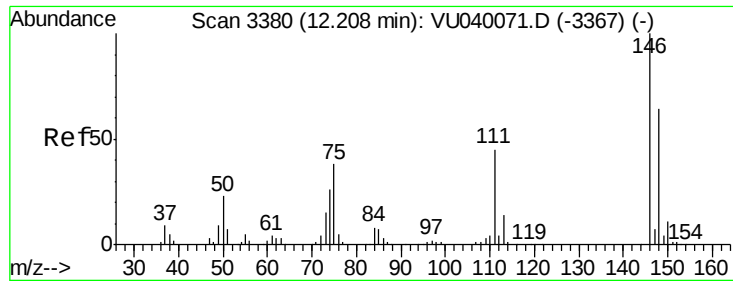
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	31.6	58.8
148	64.0	44.2	82.0



#63
 1,4-Dichlorobenzene
 Concen: 5.360 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	30.5	56.7
148	62.3	45.4	84.4





#65

1,2-Dichlorobenzene

Concen: 5.339 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00528

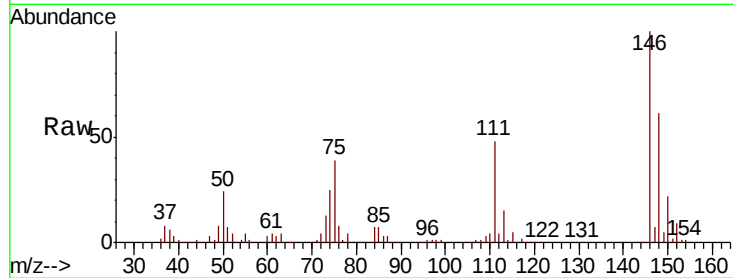
Tot Ion:146 Resp: 108981

Ion Ratio Lower Upper

146 100

111 47.6 36.5 54.7

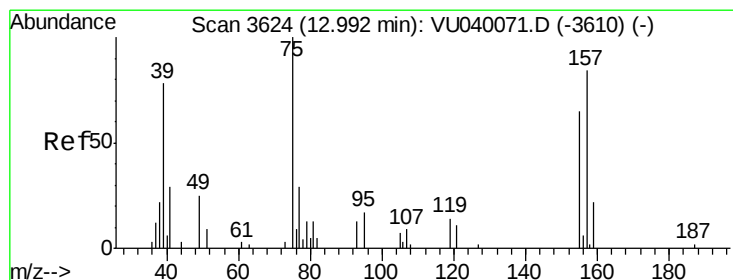
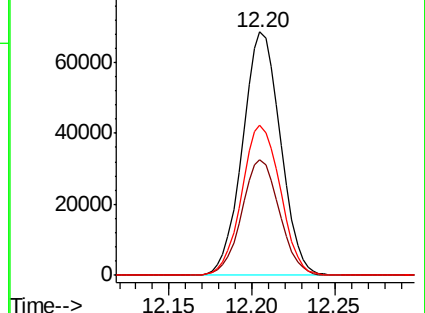
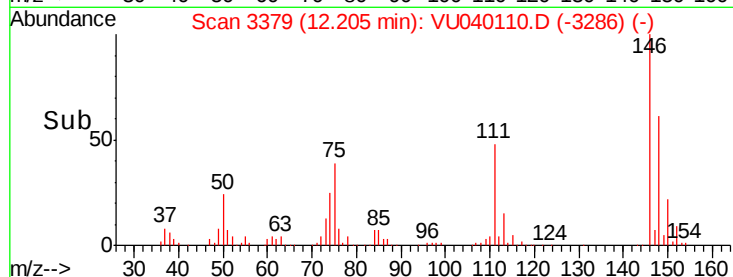
148 61.5 48.6 72.8



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: 4.544 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

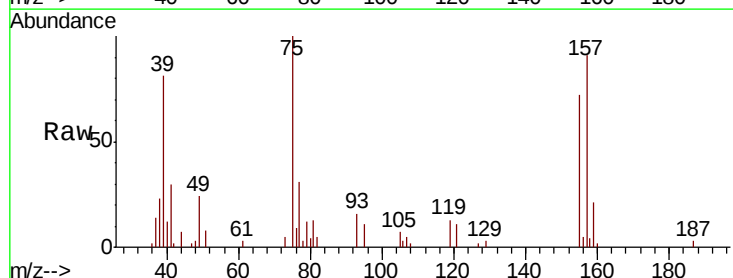
Tgt Ion: 75 Resp: 9921

Ion Ratio Lower Upper

75 100

155 71.8 54.6 82.0

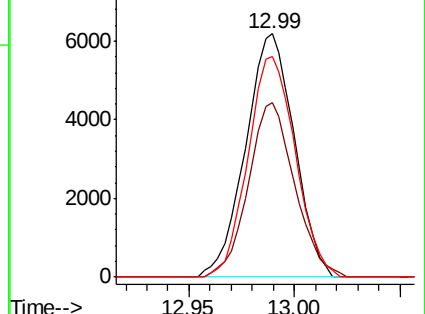
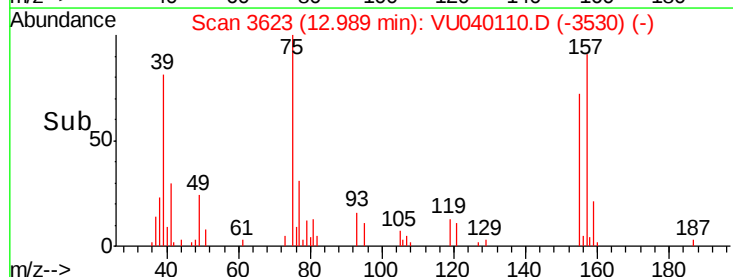
157 90.7 75.6 113.4

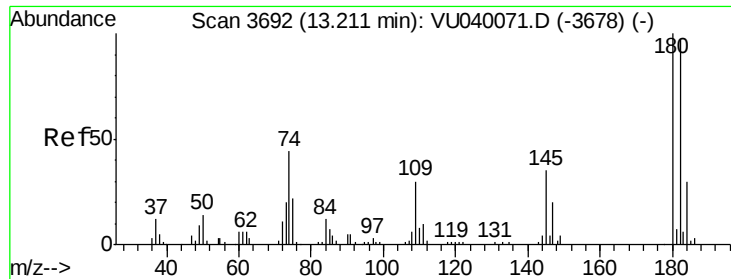


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

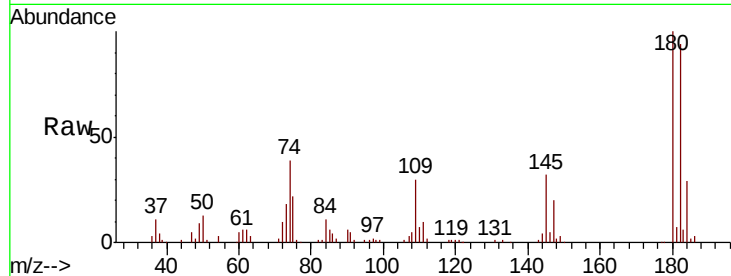




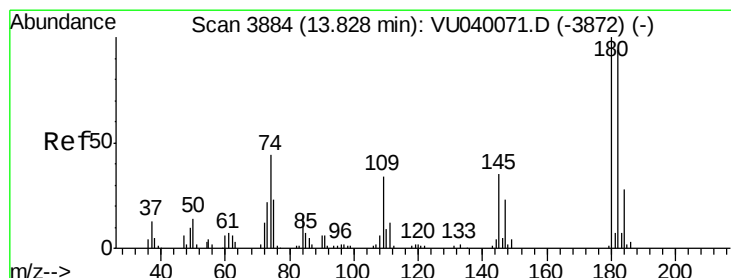
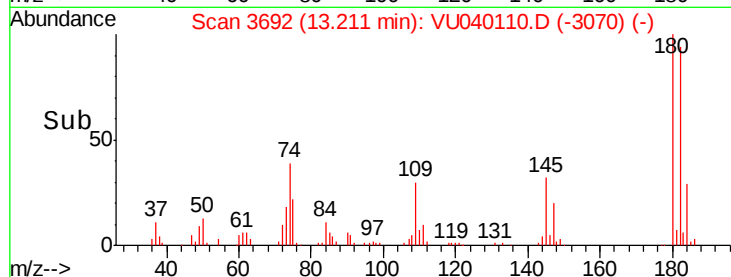
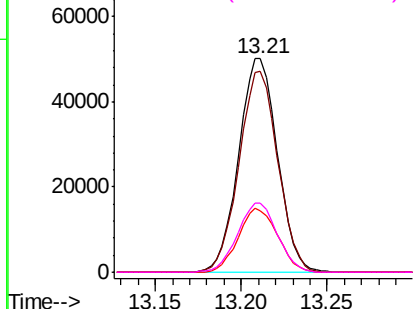
#67
 1,3,5-Trichlorobenzene
 Concen: 5.293 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00528

Tot Ion:180 Resp: 78514
 Ion Ratio Lower Upper
 180 100
 182 94.0 76.9 115.3
 184 30.3 24.6 36.8
 145 33.0 27.0 40.6

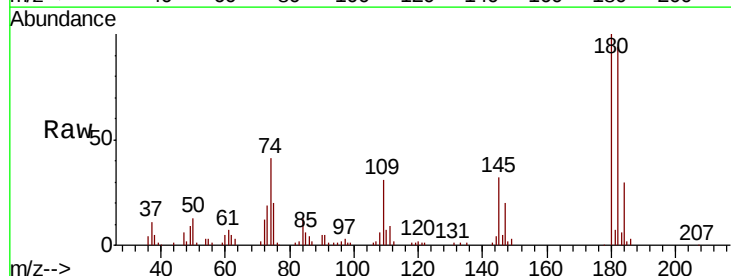


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

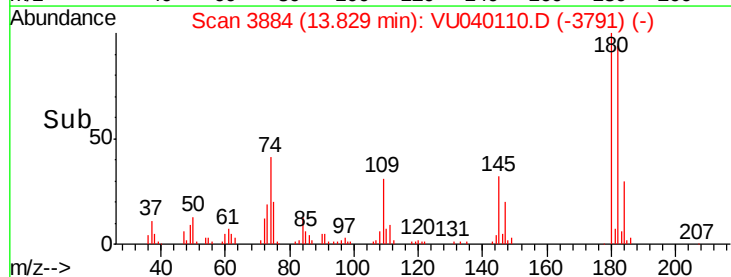
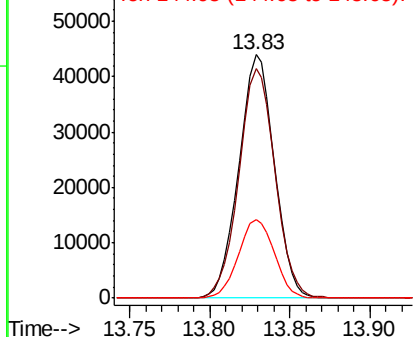


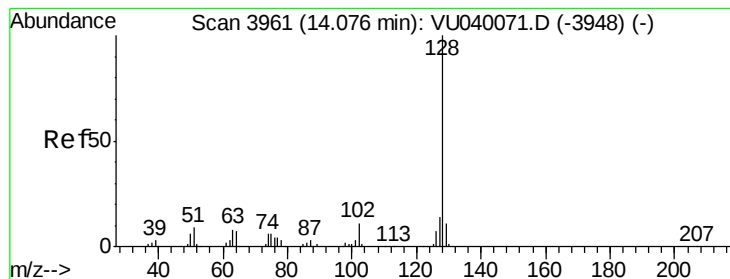
#68
 1,2,4-trichlorobenzene
 Concen: 5.178 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU040110.D
 Acq: 14 Sep 2020 10:14

Tgt Ion:180 Resp: 66154
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.0 114.0
 145 32.7 28.4 42.6



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: 4.439 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD00528

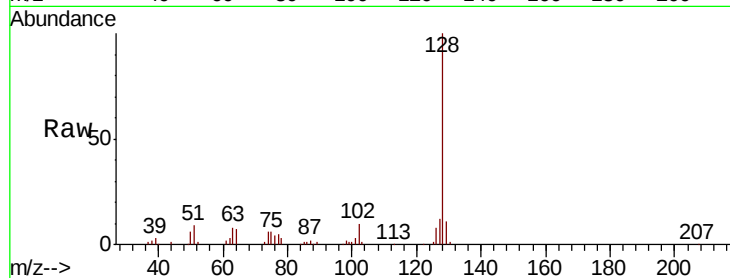
Tot Ion:128 Resp: 118208

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

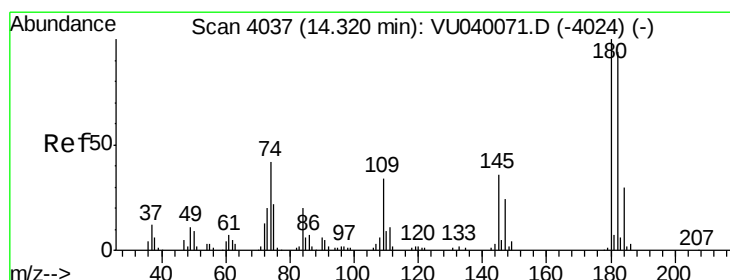
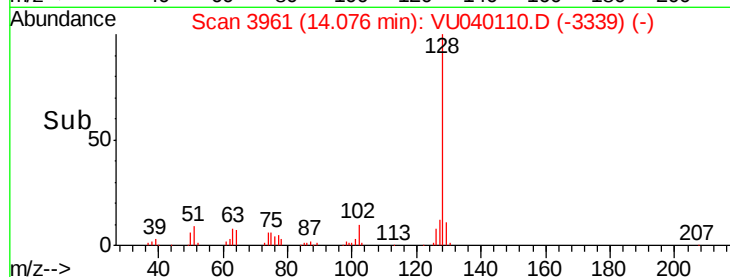
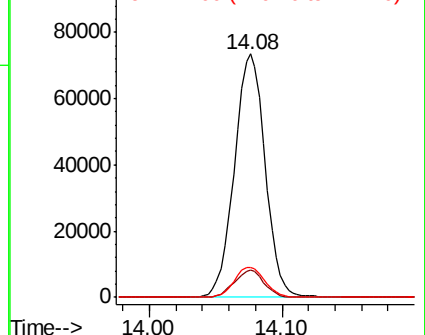
127 12.3 10.7 16.1



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: 5.054 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU040110.D

Acq: 14 Sep 2020 10:14

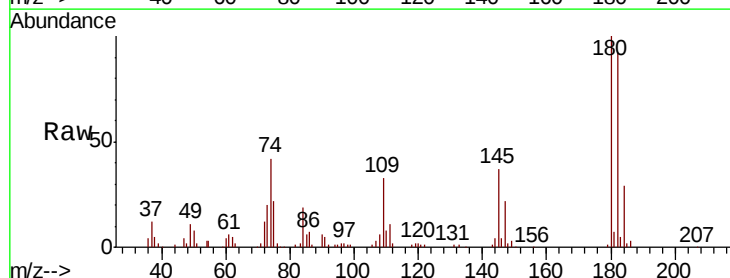
Tgt Ion:180 Resp: 59316

Ion Ratio Lower Upper

180 100

182 92.6 77.8 116.6

145 36.0 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

