

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110620\
 Data File : VU041131.D
 Acq On : 06 Nov 2020 22:27
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

Quant Time: Nov 06 23:14:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 06 23:04:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	66223	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	68449	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	37246	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	20073	3.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.20%
7) Chloroethane-d5	1.92	69	17994	4.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.20%
11) 1,1-Dichloroethene-d2	2.58	63	43544	3.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.80%
20) 2-Butanone-d5	4.65	46	89004	48.58	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.16%
24) Chloroform-d	5.08	84	49782	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.72	65	29085	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
32) Benzene-d6	5.74	84	86742	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
36) 1,2-Dichloropropane-d6	6.70	67	29669	4.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.60%
41) Toluene-d8	7.90	98	83288	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
43) trans-1,3-Dichloropropene-	8.19	79	11712	4.53	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.60%
46) 2-Hexanone-d5	8.64	63	67358	48.42	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.84%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	27093	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	31320	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	25912	4.286	ug/L	97
3) Chloromethane	1.52	50	26427	4.192	ug/L	99
5) Vinyl chloride	1.61	62	26695	4.292	ug/L	98
6) Bromomethane	1.86	94	15464	4.338	ug/L	96
8) Chloroethane	1.94	64	15786	4.006	ug/L	98
9) Trichlorofluoromethane	2.15	101	39582	4.682	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	22324	4.506	ug/L	95
12) 1,1-Dichloroethene	2.59	96	19818	4.237	ug/L	99
13) Acetone	2.66	43	53655	42.836	ug/L #	56
14) Carbon disulfide	2.81	76	59751	3.822	ug/L	98
15) Methyl Acetate	2.97	43	12609	4.399	ug/L	96
16) Methylene chloride	3.06	84	33671	6.177	ug/L	95
17) Methyl tert-butyl Ether	3.38	73	53567	4.449	ug/L	100
18) trans-1,2-Dichloroethene	3.37	96	20990	4.415	ug/L	95
19) 1,1-Dichloroethane	3.89	63	44296	4.661	ug/L	97
21) 2-Butanone	4.73	43	86625	44.249	ug/L	99
22) cis-1,2-Dichloroethene	4.68	96	23302	4.752	ug/L	97

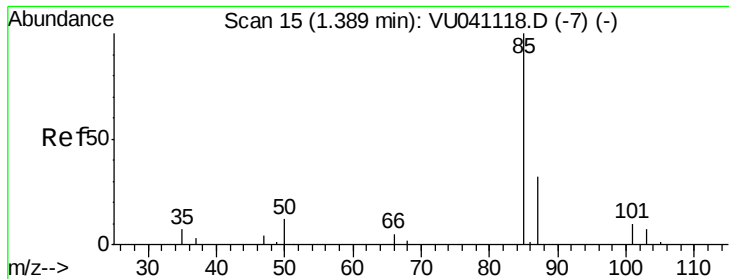
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110620\
 Data File : VU041131.D
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 06 23:04:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	11127	4.810	ug/L	93
25) Chloroform	5.11	83	47363	4.969	ug/L	99
27) 1,2-Dichloroethane	5.81	62	33947	4.782	ug/L	96
29) 1,1,1-Trichloroethane	5.33	97	39350	4.701	ug/L	96
30) Cyclohexane	5.40	56	33723	4.089	ug/L	99
31) Carbon tetrachloride	5.54	117	35000	4.722	ug/L	98
33) Benzene	5.79	78	93368	4.565	ug/L	100
34) Trichloroethene	6.55	95	24772	4.759	ug/L	95
35) Methylcyclohexane	6.77	83	31623	4.073	ug/L	99
37) 1,2-Dichloropropane	6.80	63	26295	4.751	ug/L	98
38) Bromodichloromethane	7.11	83	34280	4.775	ug/L	94
39) cis-1,3-Dichloropropene	7.62	75	33494	4.396	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	200460	45.430	ug/L	99
42) Toluene	7.98	91	98246	4.737	ug/L	98
44) trans-1,3-Dichloropropene	8.22	75	32494	4.557	ug/L	99
45) 1,1,2-Trichloroethane	8.41	97	19470	4.726	ug/L	92
47) Tetrachloroethene	8.56	164	17885	4.673	ug/L	94
48) 2-Hexanone	8.69	43	153351	46.156	ug/L	98
49) Dibromochloromethane	8.81	129	23290	4.868	ug/L	96
50) 1,2-Dibromoethane	8.93	107	18100	4.611	ug/L	98
51) Chlorobenzene	9.45	112	62669	4.765	ug/L	98
52) Ethylbenzene	9.57	91	100853	4.620	ug/L	99
53) m,p-Xylene	9.70	106	38438	4.828	ug/L	95
54) o-Xylene	10.10	106	36746	4.956	ug/L	98
55) Styrene	10.11	104	65211	4.936	ug/L	97
56) Isopropylbenzene	10.48	105	100339	5.032	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	24582	4.543	ug/L	98
59) 1,2,3-Trichloropropane	10.82	75	19212	4.658	ug/L	99
61) Bromoform	10.29	173	13196	4.597	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	51210	4.763	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	51563	4.631	ug/L	98
65) 1,2-Dichlorobenzene	12.21	146	49747	4.689	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.99	75	4518	4.345	ug/L	91
67) 1,3,5-Trichlorobenzene	13.21	180	35311	4.696	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	29263	4.698	ug/L	97
69) Naphthalene	14.08	128	46450	4.170	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	27900	4.860	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 4.286 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

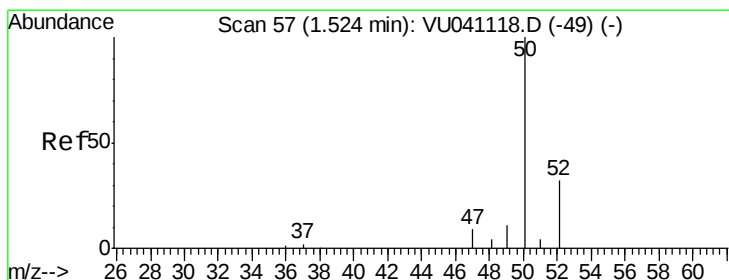
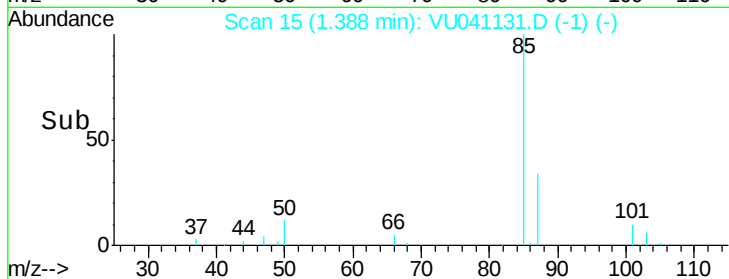
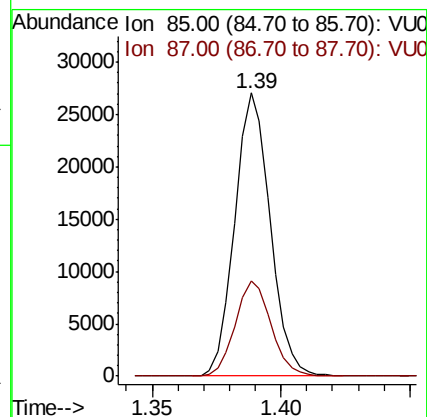
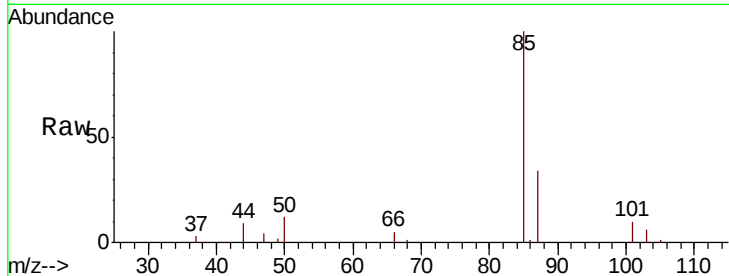
VSTD00520

Tot Ion: 85 Resp: 25912

Ion Ratio Lower Upper

85 100

87 33.8 25.8 38.8



#3

Chloromethane

Concen: 4.192 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041131.D

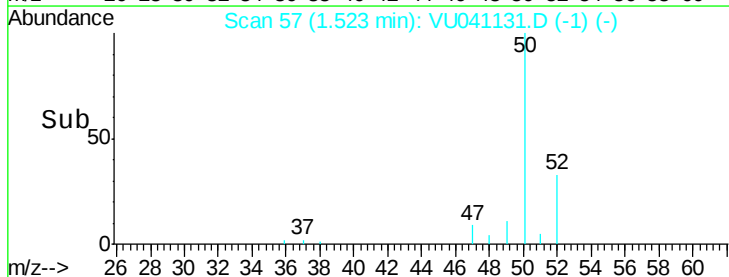
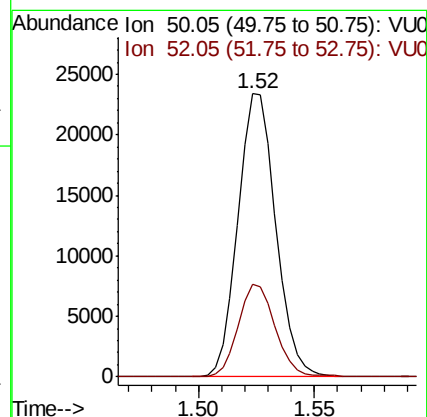
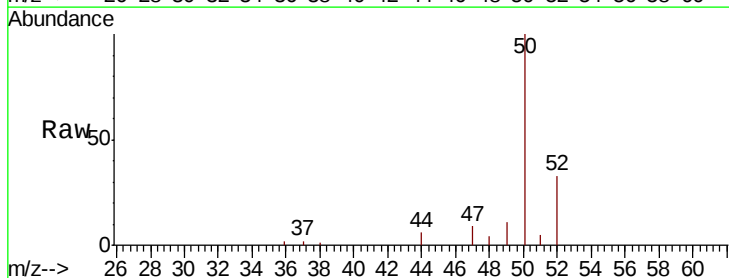
Acq: 06 Nov 2020 22:27

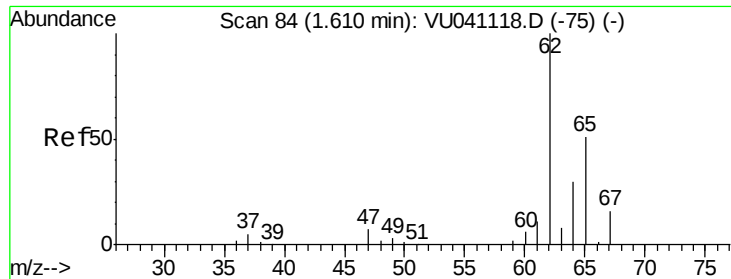
Tgt Ion: 50 Resp: 26427

Ion Ratio Lower Upper

50 100

52 32.7 22.4 41.6





#5

Vinyl chloride

Concen: 4.292 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampled :

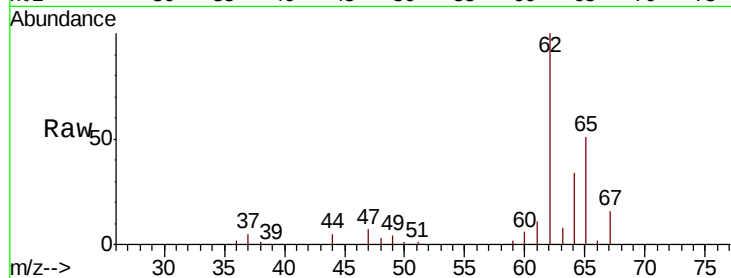
VSTD00520

Tot Ion: 62 Resp: 26695

Ion Ratio Lower Upper

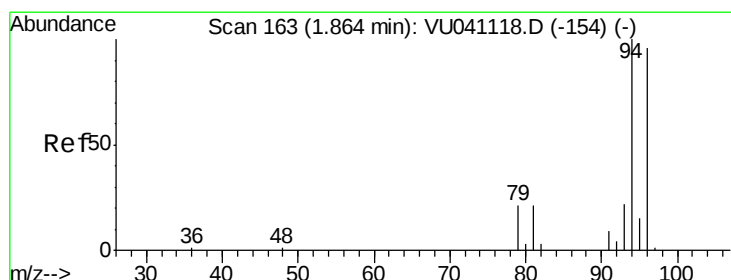
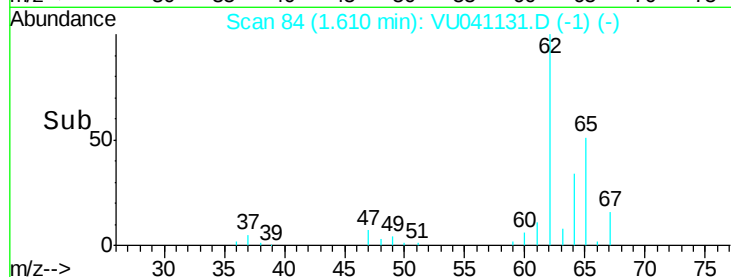
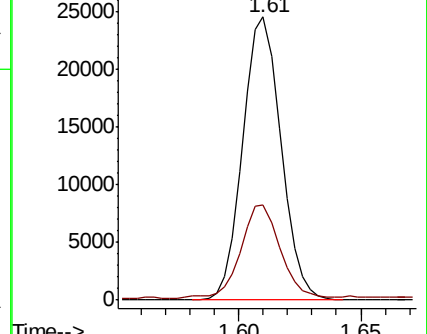
62 100

64 33.6 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.338 ug/L

RT: 1.86 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU041131.D

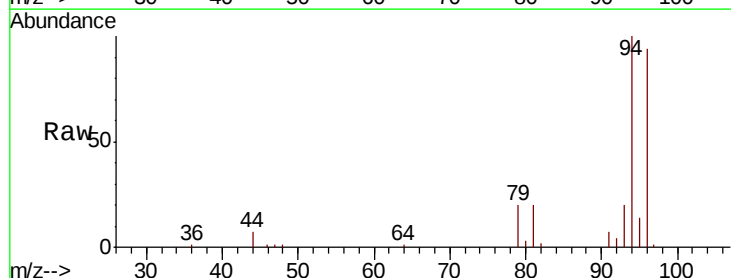
Acq: 06 Nov 2020 22:27

Tgt Ion: 94 Resp: 15464

Ion Ratio Lower Upper

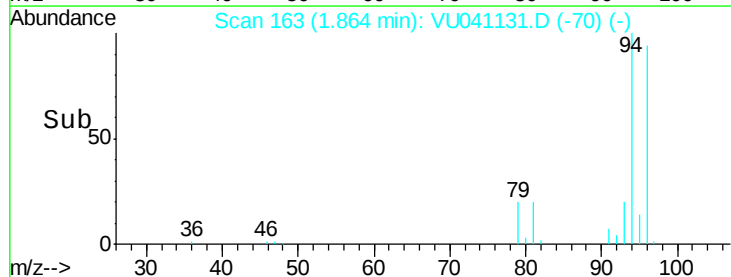
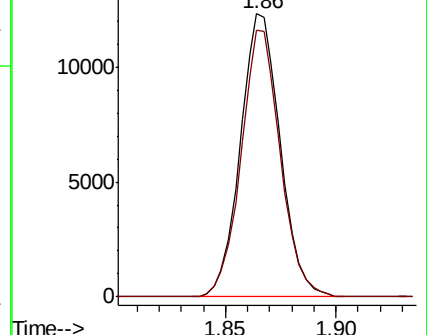
94 100

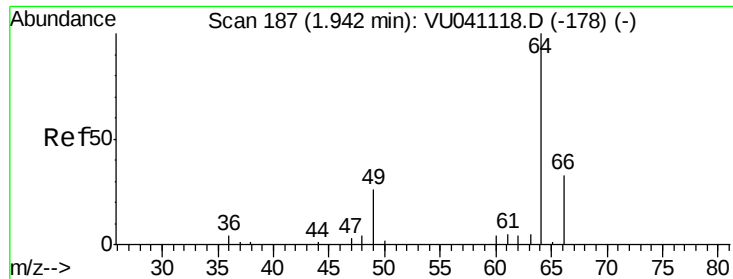
96 94.3 63.5 117.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

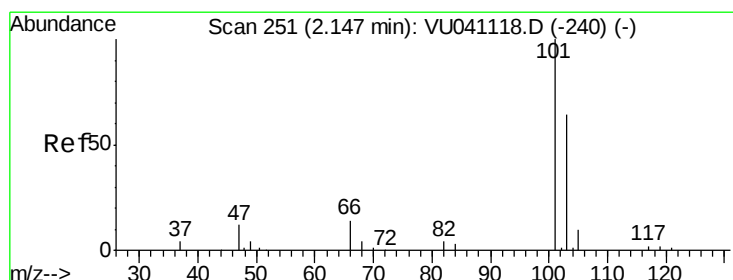
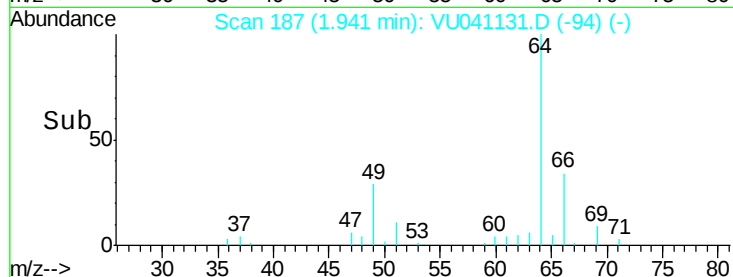
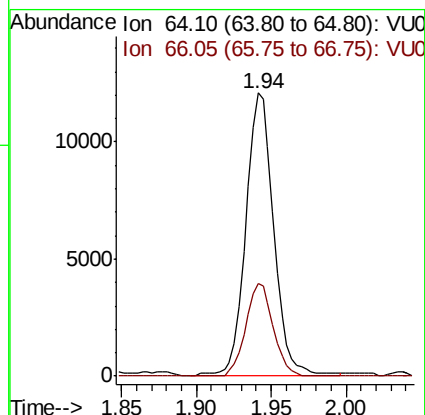
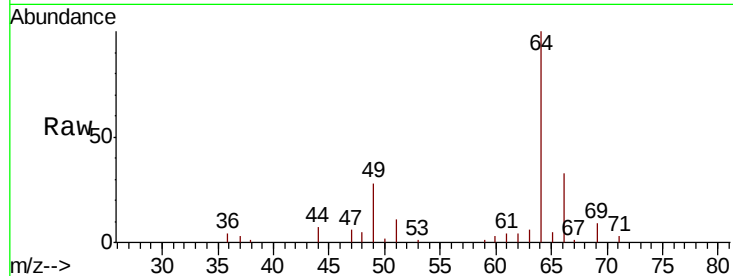




#8
Chloroethane
Concen: 4.006 ug/L
RT: 1.94 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

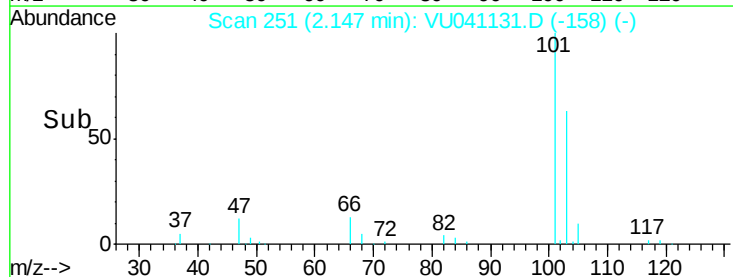
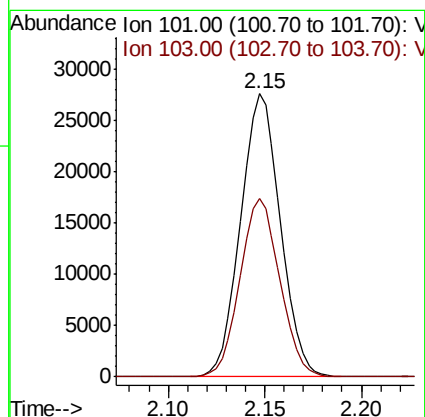
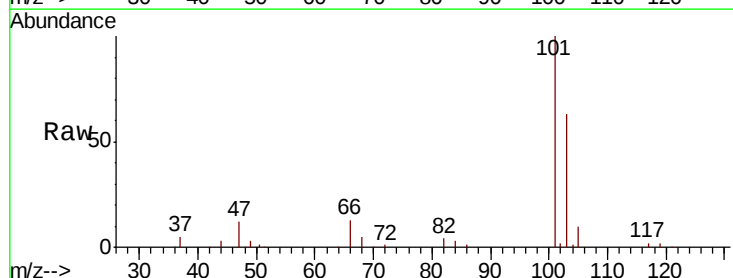
Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

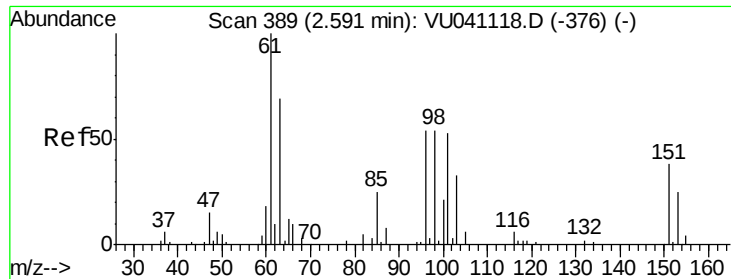
Tot Ion: 64 Resp: 15786
Ion Ratio Lower Upper
64 100
66 32.9 22.3 41.5



#9
Trichlorofluoromethane
Concen: 4.682 ug/L
RT: 2.15 min Scan# 251
Delta R.T. -0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Tgt Ion: 101 Resp: 39582
Ion Ratio Lower Upper
101 100
103 62.7 51.0 76.4





#10

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

Concen: 4.506 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

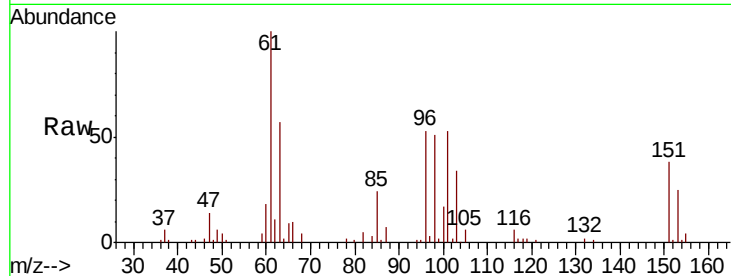
Tot Ion:101 Resp: 22324

Ion Ratio Lower Upper

101 100

85 46.7 35.0 52.4

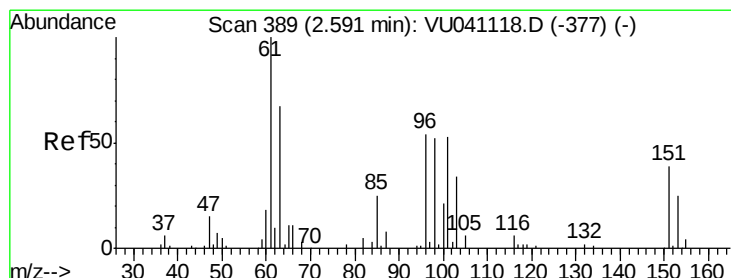
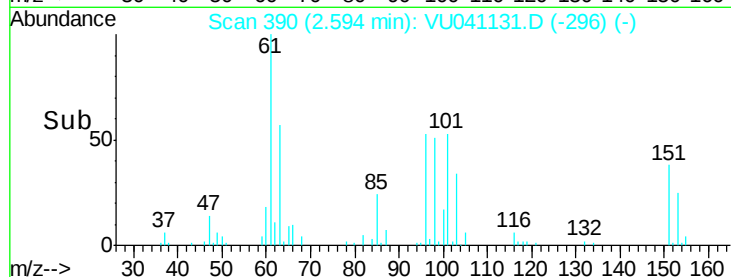
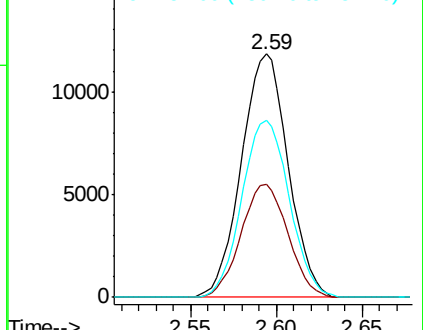
151 73.7 55.3 82.9



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: 4.237 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

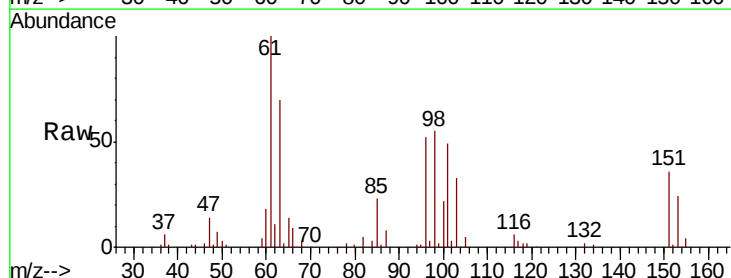
Tgt Ion: 96 Resp: 19818

Ion Ratio Lower Upper

96 100

61 192.6 134.3 249.5

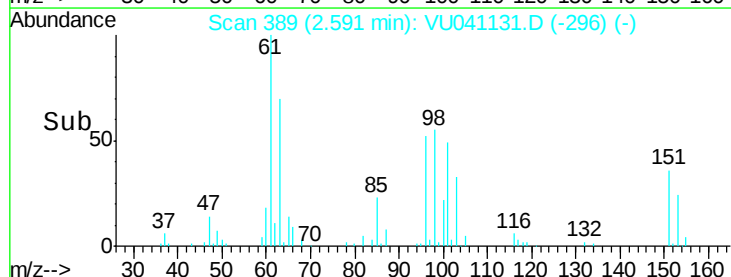
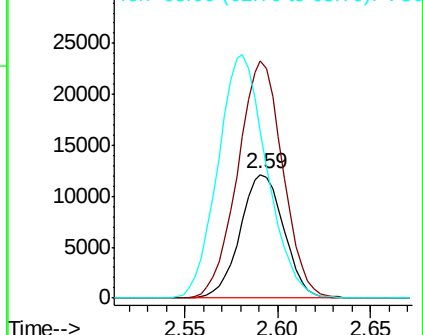
63 134.7 95.0 176.4

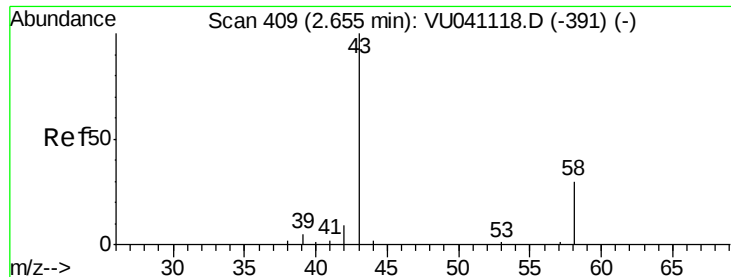


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 42.836 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

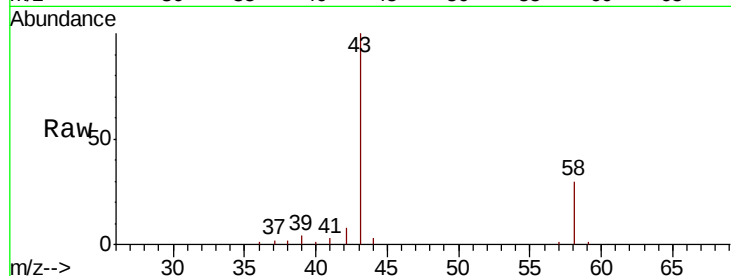
VSTD00520

Tot Ion: 43 Resp: 53655

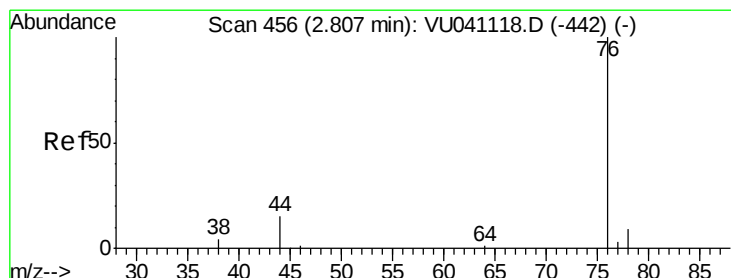
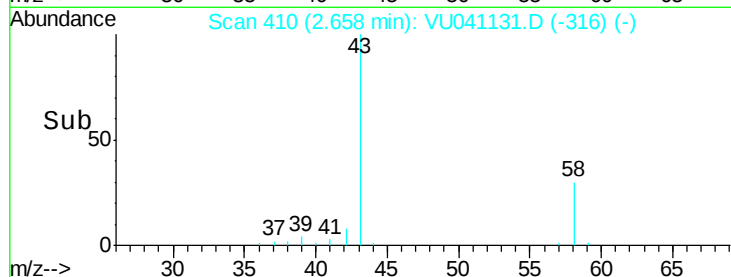
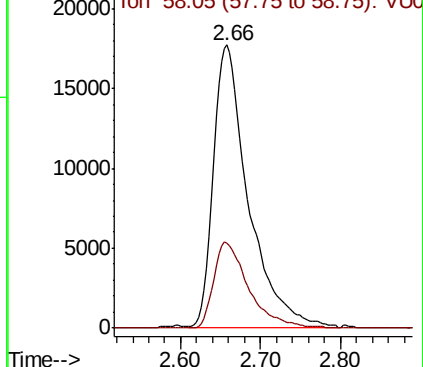
Ion Ratio Lower Upper

43 100

58 30.2 0.0 25.4#



Abundance Ion 43.05 (42.75 to 43.75): VU041131.D (-316) (-)



#14

Carbon disulfide

Concen: 3.822 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU041131.D

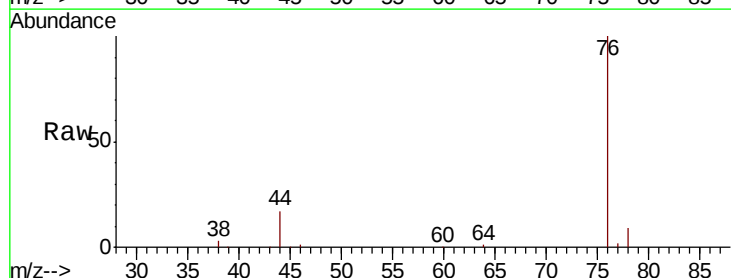
Acq: 06 Nov 2020 22:27

Tgt Ion: 76 Resp: 59751

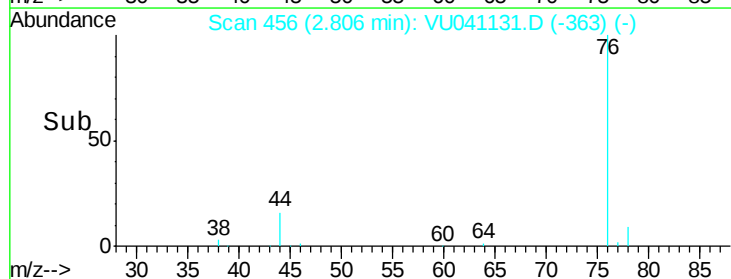
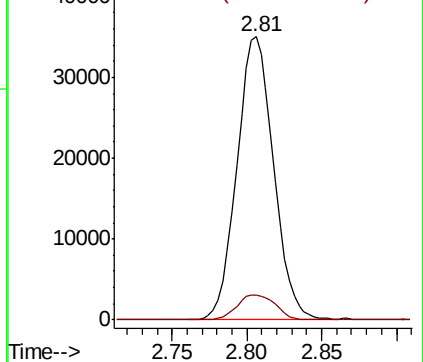
Ion Ratio Lower Upper

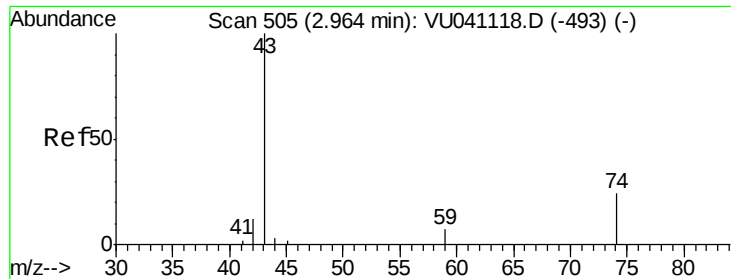
76 100

78 8.8 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU041131.D (-363) (-)

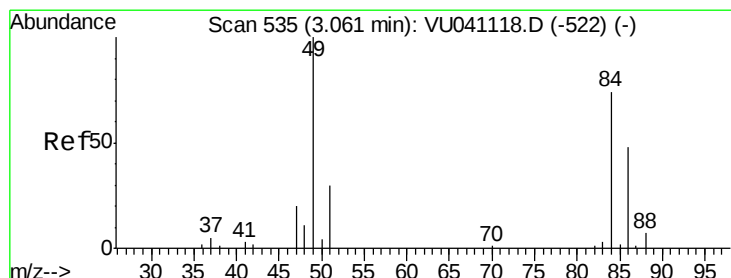
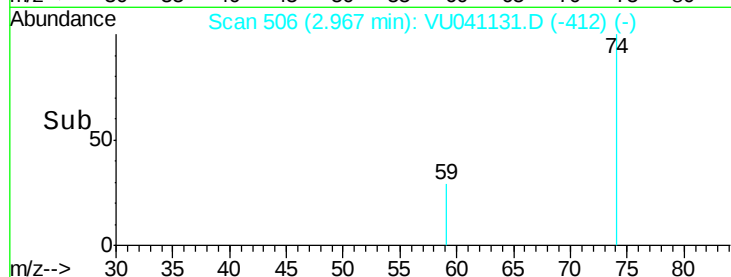
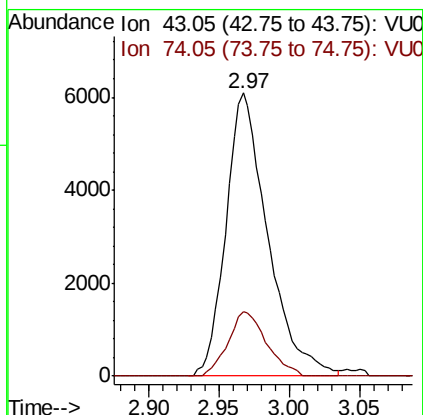
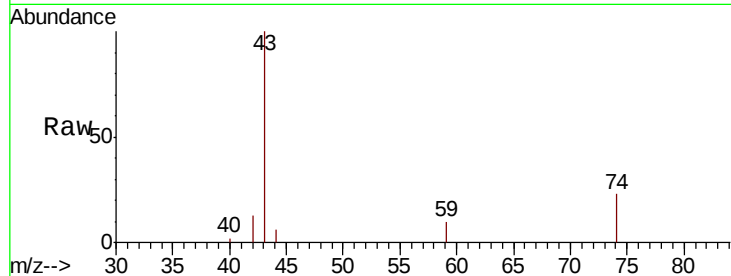




#15
Methvl Acetate
Concen: 4.399 ug/L
RT: 2.97 min Scan# 506
Delta R.T. 0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

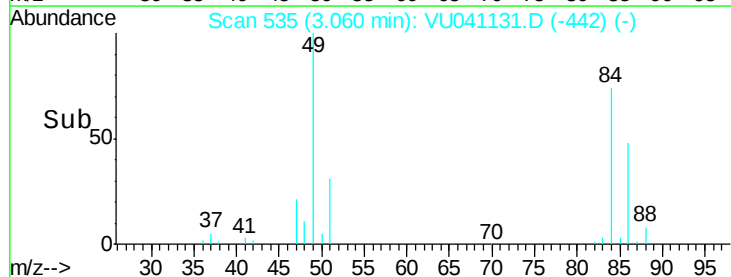
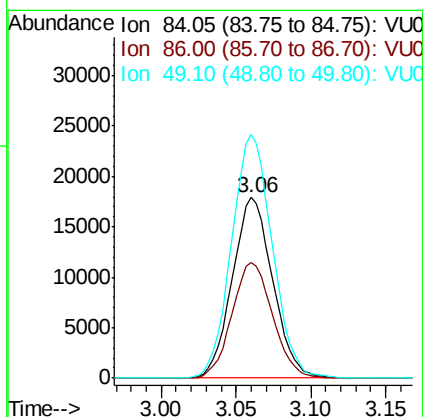
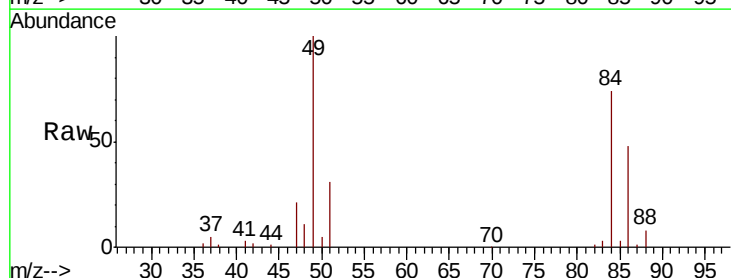
Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

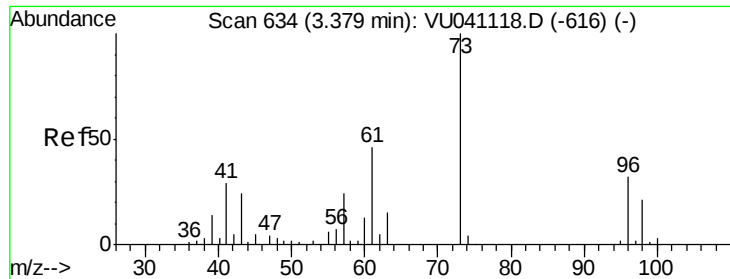
Tot Ion: 43 Resp: 12609
Ion Ratio Lower Upper
43 100
74 21.0 18.3 27.5



#16
Methylene chloride
Concen: 6.177 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Tgt Ion: 84 Resp: 33671
Ion Ratio Lower Upper
84 100
86 64.1 42.8 79.6
49 134.8 99.5 184.7

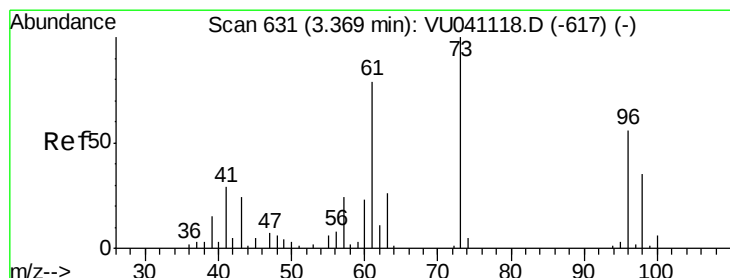
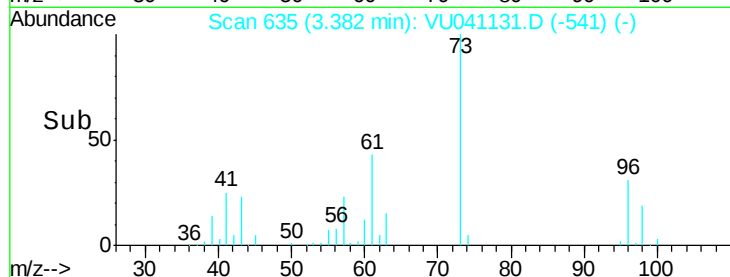
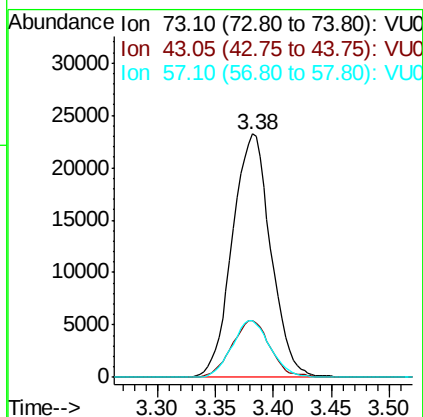
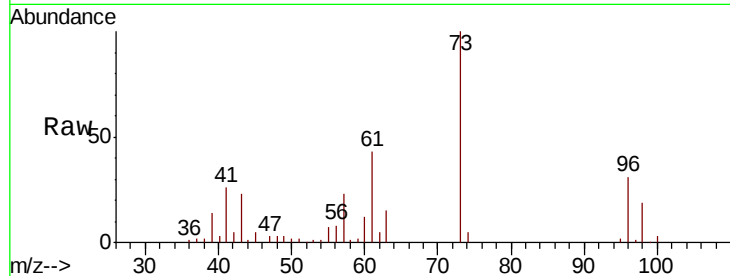




#17
Methvl tert-butvl Ether
Concen: 4.449 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

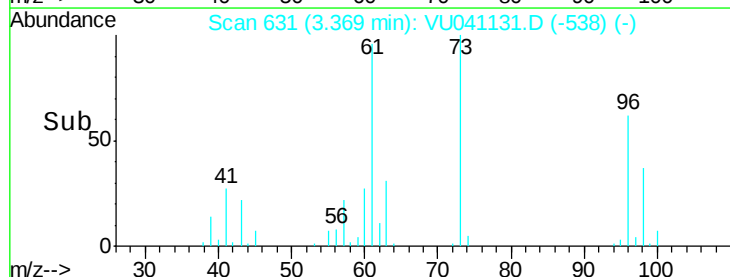
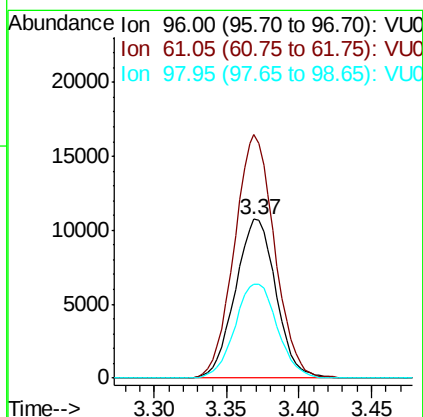
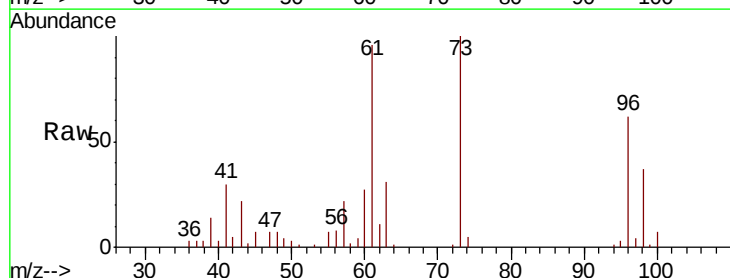
Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

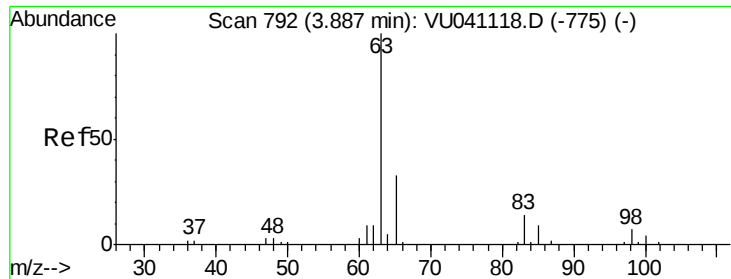
Tot Ion: 73 Resp: 53567
Ion Ratio Lower Upper
73 100
43 23.1 18.5 27.7
57 23.1 18.4 27.6



#18
trans-1,2-Dichloroethene
Concen: 4.415 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Tgt Ion: 96 Resp: 20990
Ion Ratio Lower Upper
96 100
61 153.5 110.9 205.9
98 59.4 45.4 84.2

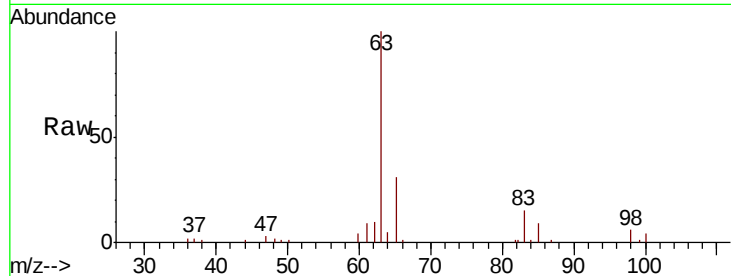




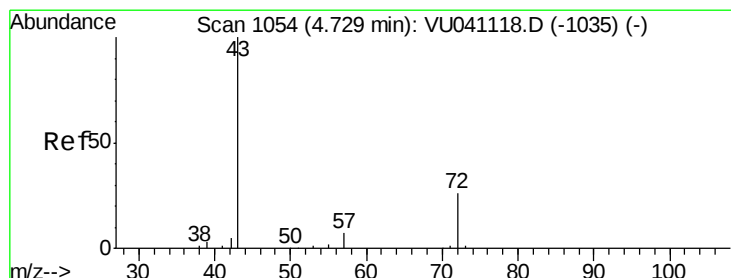
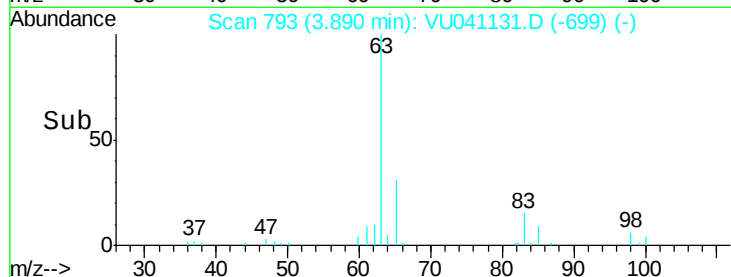
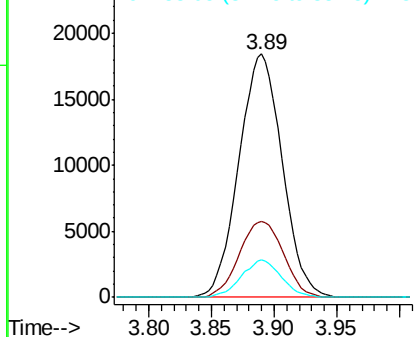
#19
 1,1-Dichloroethane
 Concen: 4.661 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

Tot Ion: 63 Resp: 44296
 Ion Ratio Lower Upper
 63 100
 65 31.0 21.3 39.6
 83 15.2 8.8 16.3

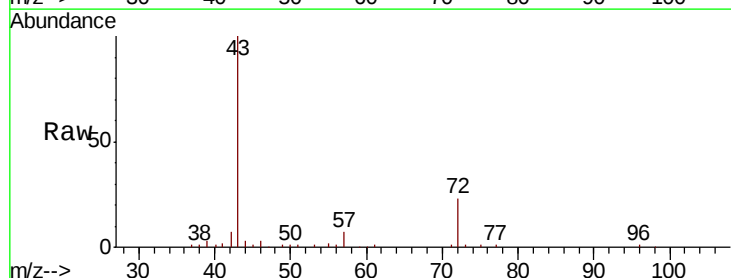


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

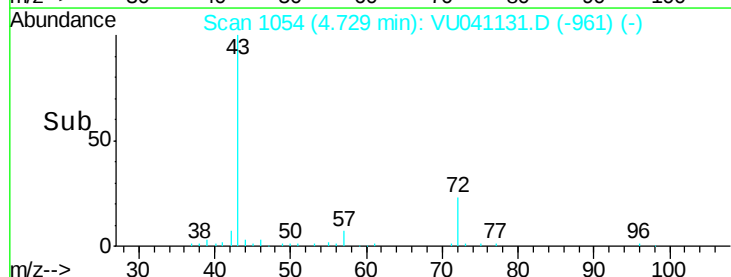
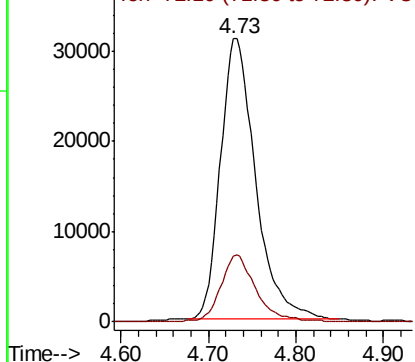


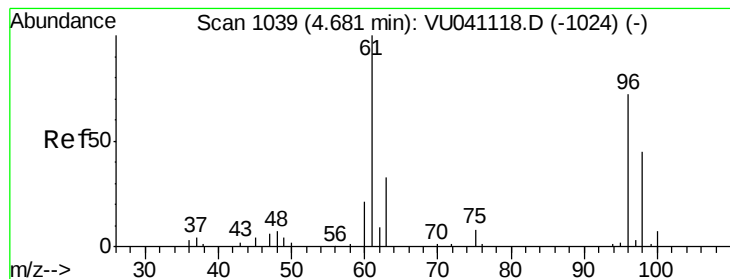
#21
 2-Butanone
 Concen: 44.249 ug/L
 RT: 4.73 min Scan# 1054
 Delta R.T. -0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Tgt Ion: 43 Resp: 86625
 Ion Ratio Lower Upper
 43 100
 72 24.0 11.8 35.4



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: 4.752 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

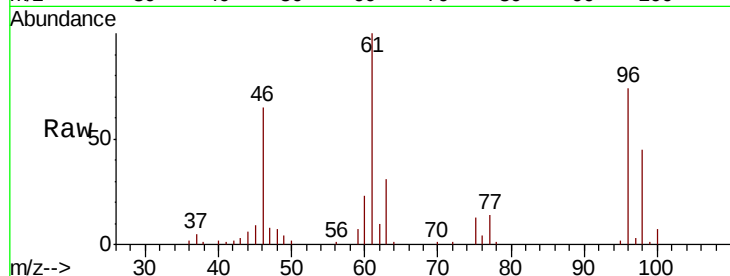
Tot Ion: 96 Resp: 23302

Ion Ratio Lower Upper

96 100

61 135.3 97.2 180.4

68 0.0 0.0 0.0

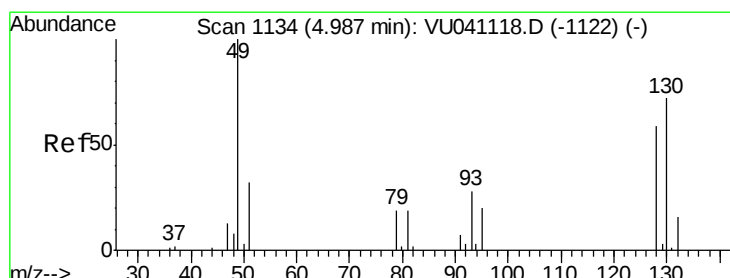
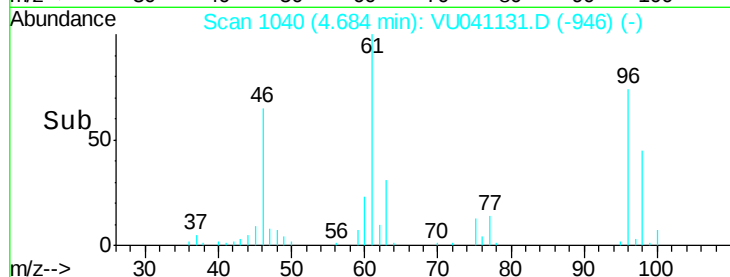
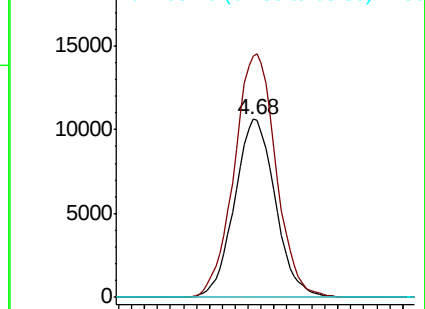


Abundance

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: 4.810 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Tgt Ion: 128 Resp: 11127

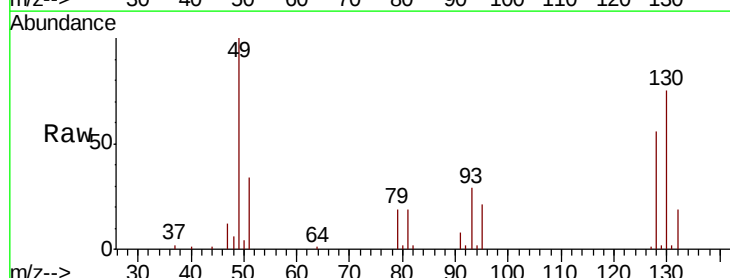
Ion Ratio Lower Upper

128 100

49 179.0 135.0 250.8

130 134.2 89.9 167.0

51 60.3 51.9 77.9



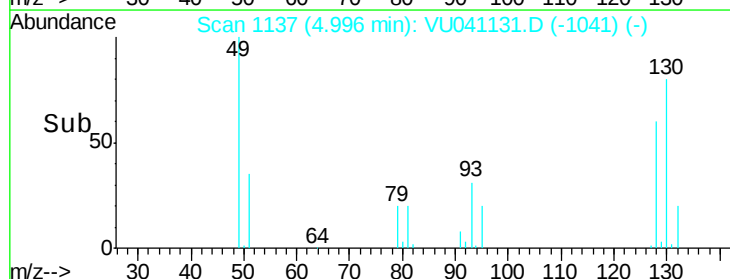
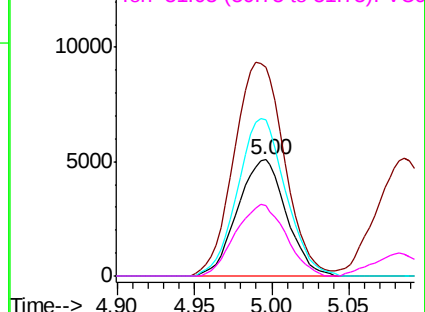
Abundance

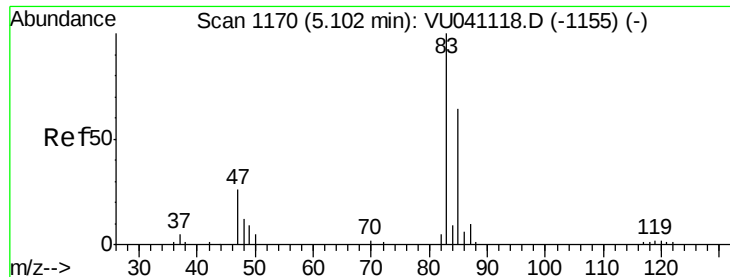
Ion 127.90 (127.60 to 128.60): V

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

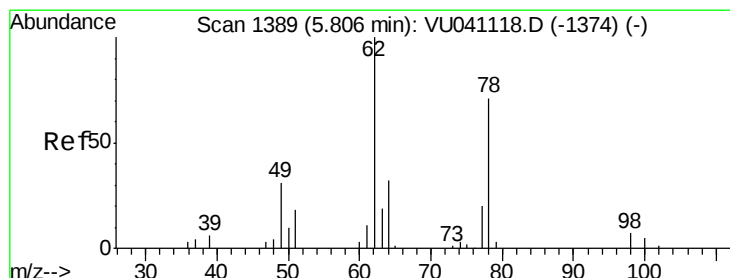
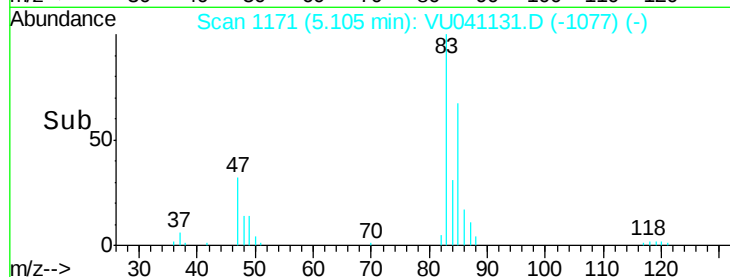
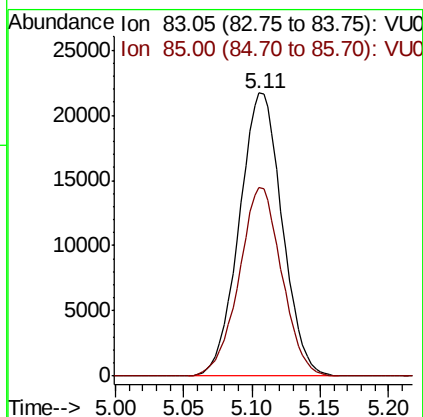
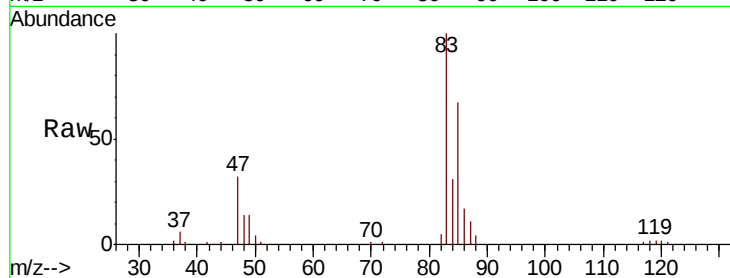




#25
Chloroform
Concen: 4.969 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

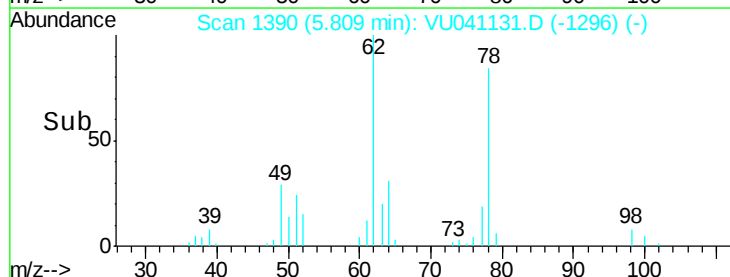
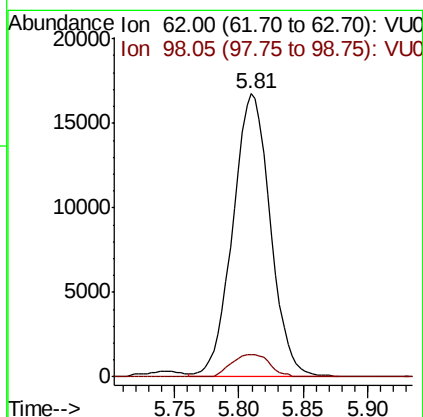
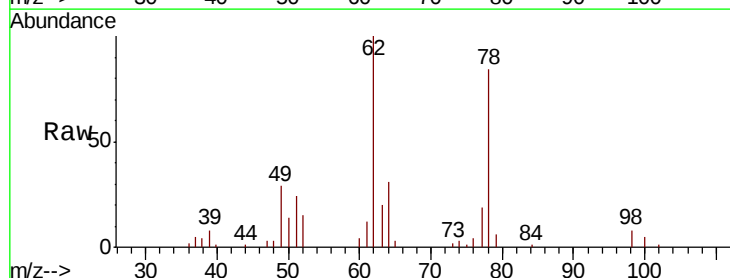
Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

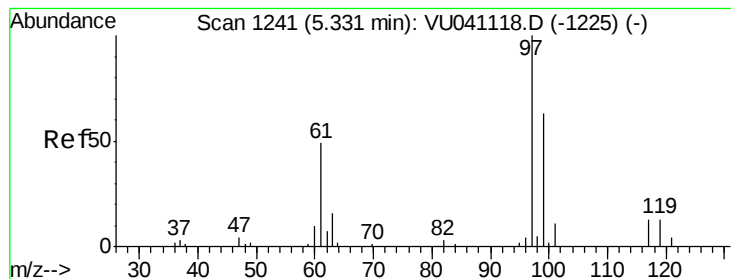
Tot Ion: 83 Resp: 47363
Ion Ratio Lower Upper
83 100
85 66.7 46.1 85.7



#27
1,2-Dichloroethane
Concen: 4.782 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Tgt Ion: 62 Resp: 33947
Ion Ratio Lower Upper
62 100
98 7.9 7.6 11.4





#29

1,1,1-Trichloroethane

Concen: 4.701 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

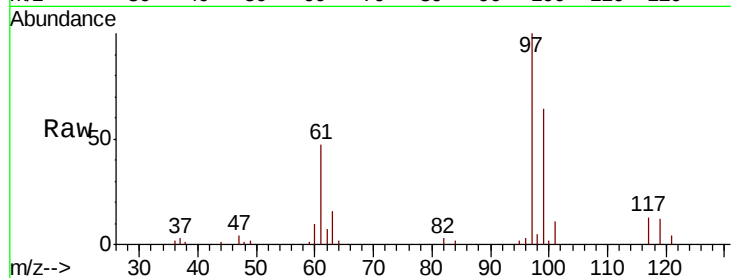
Tot Ion: 97 Resp: 39350

Ion Ratio Lower Upper

97 100

99 64.0 53.4 80.0

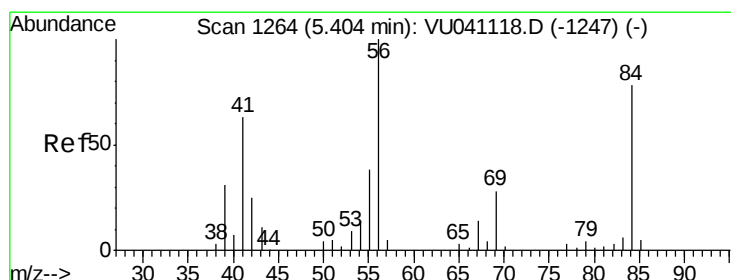
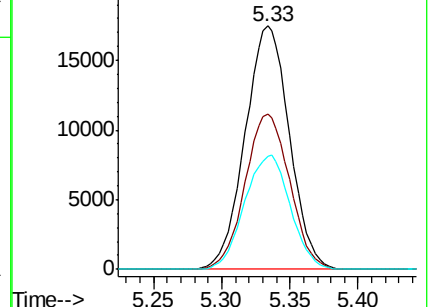
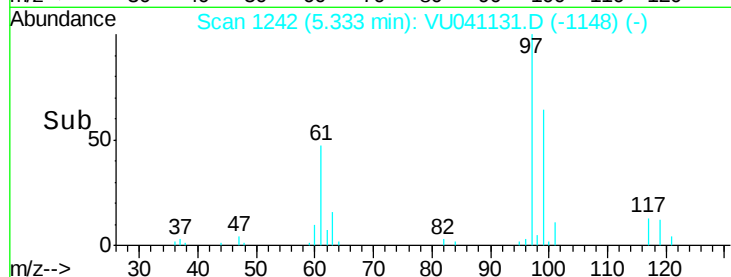
61 48.3 41.6 62.4



Abundance Ion 96.95 (96.65 to 97.65): VU041131.D (-1148) (-)

Ion 99.05 (98.75 to 99.75): VU041131.D (-1148) (-)

Ion 61.05 (60.75 to 61.75): VU041131.D (-1148) (-)



#30

Cyclohexane

Concen: 4.089 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

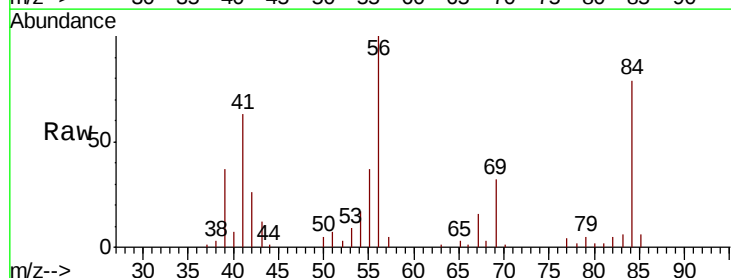
Tgt Ion: 56 Resp: 33723

Ion Ratio Lower Upper

56 100

69 29.6 22.8 34.2

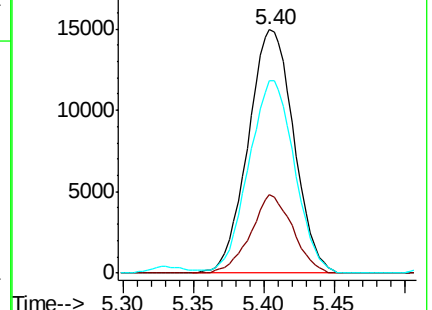
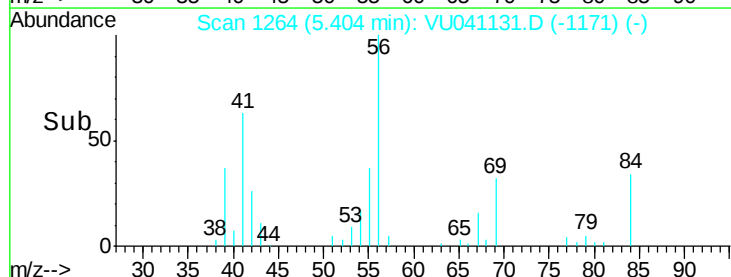
84 79.6 63.6 95.4

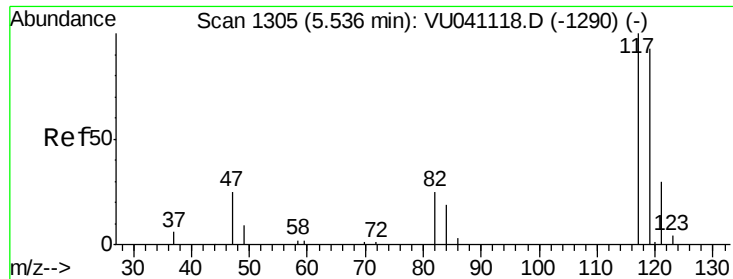


Abundance Ion 56.10 (55.80 to 56.80): VU041131.D (-1171) (-)

Ion 69.15 (68.85 to 69.85): VU041131.D (-1171) (-)

Ion 84.15 (83.85 to 84.85): VU041131.D (-1171) (-)

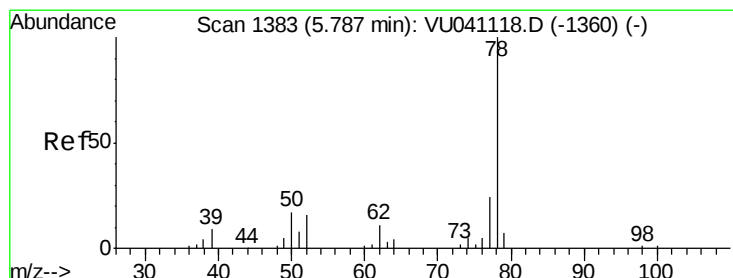
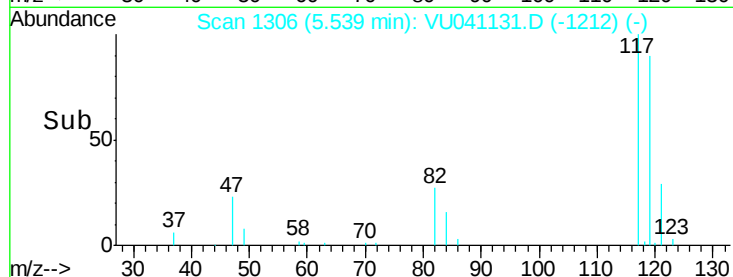
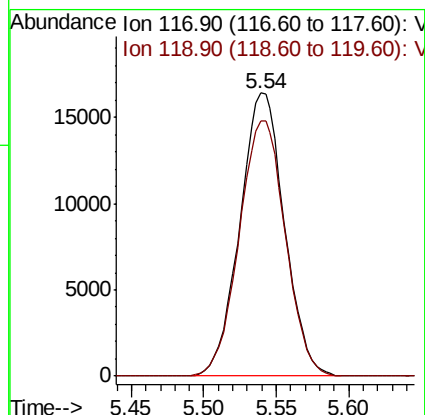
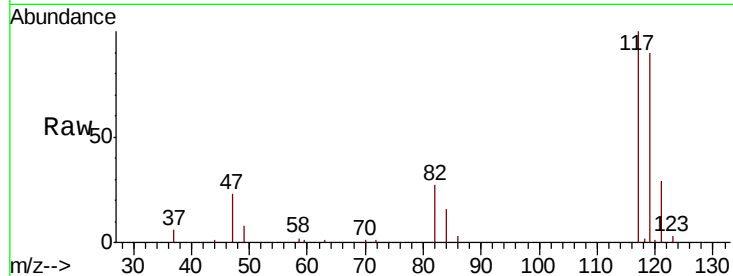




#31
Carbon tetrachloride
Concen: 4.722 ug/L
RT: 5.54 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

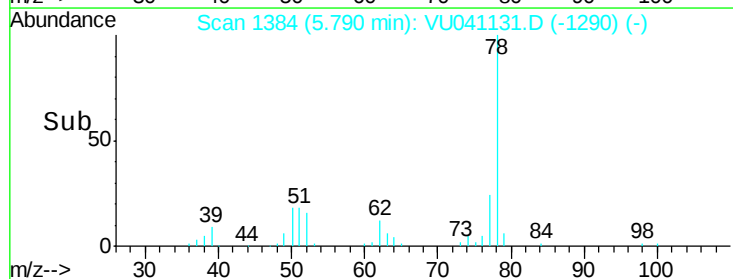
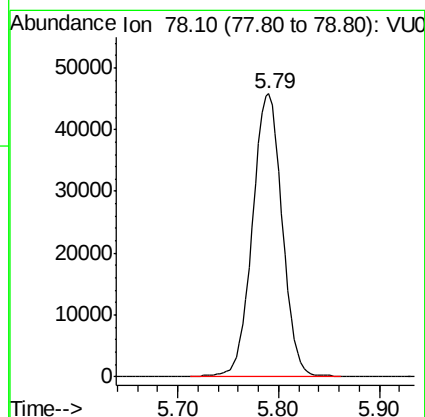
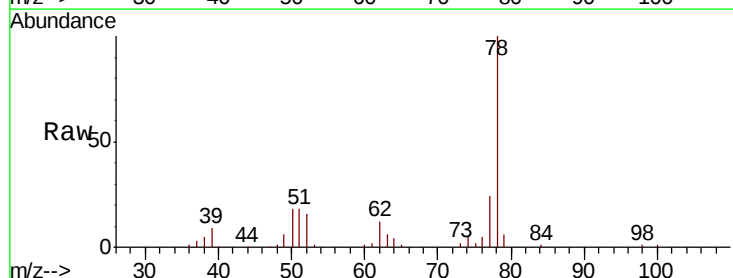
Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

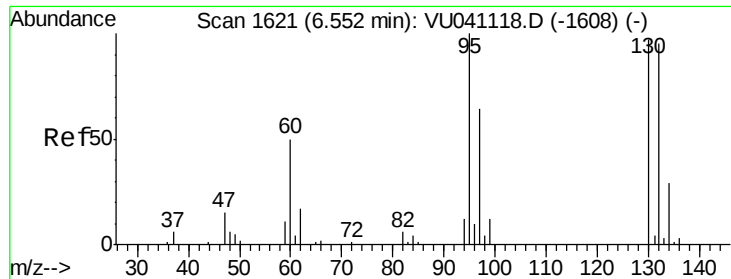
Tot Ion:117 Resp: 35000
Ion Ratio Lower Upper
117 100
119 93.5 76.1 114.1



#33
Benzene
Concen: 4.565 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Tgt Ion: 78 Resp: 93368





#34

Trichloroethene

Concen: 4.759 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

Tot Ion: 95 Resp: 24772

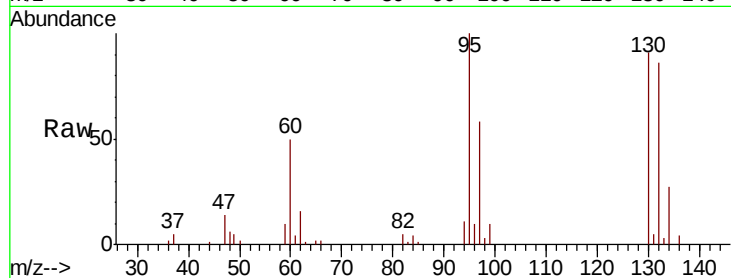
Ion Ratio Lower Upper

95 100

97 58.2 45.6 84.6

132 86.4 64.8 120.4

130 91.1 64.8 120.4

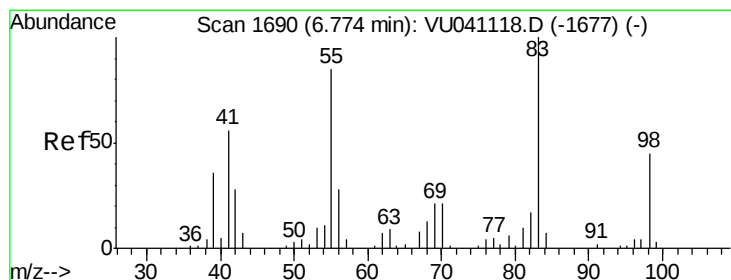
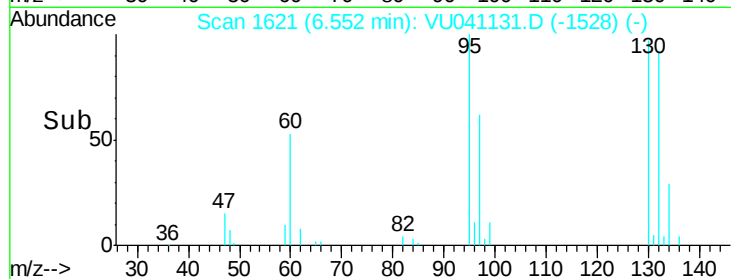
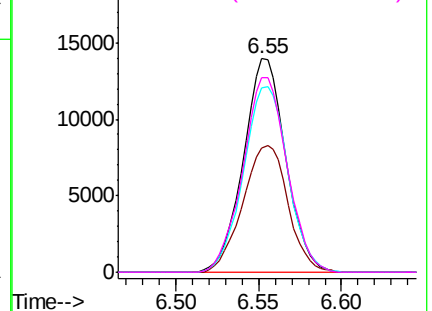


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.073 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

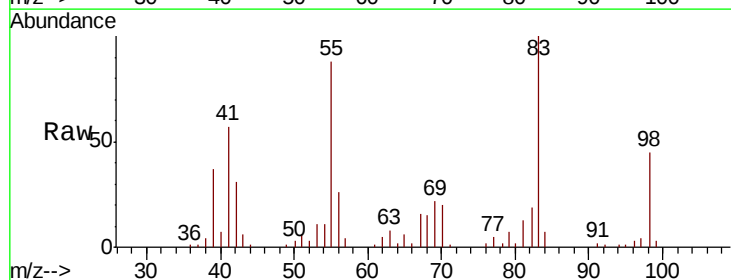
Tgt Ion: 83 Resp: 31623

Ion Ratio Lower Upper

83 100

55 90.8 72.0 108.0

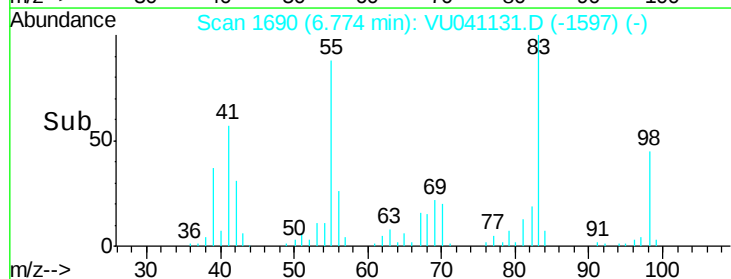
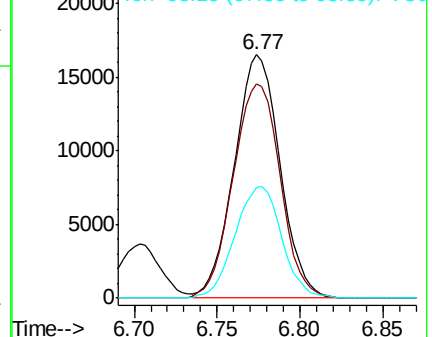
98 46.7 36.6 55.0

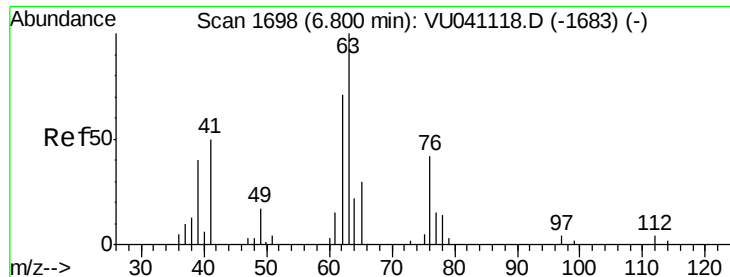


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

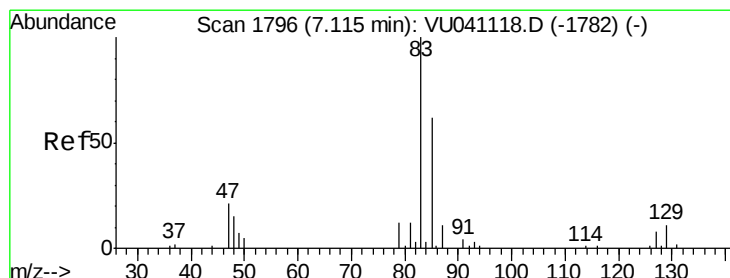
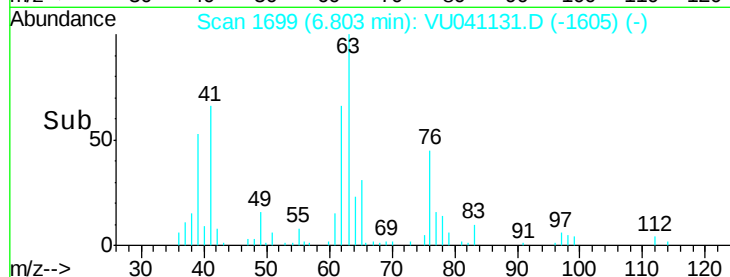
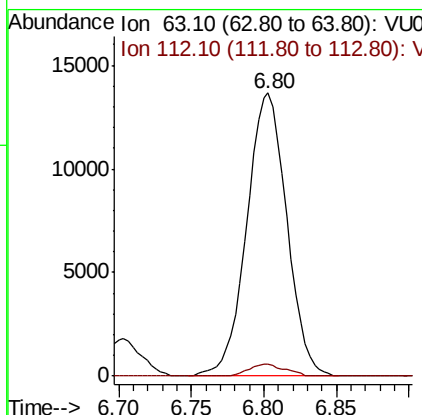
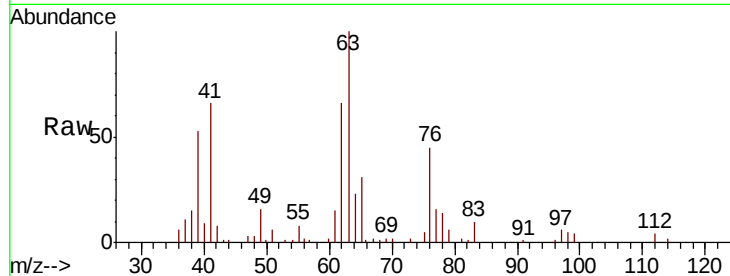




#37
 1,2-Dichloropropane
 Concen: 4.751 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

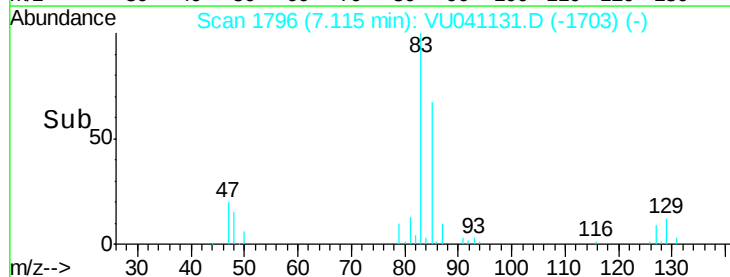
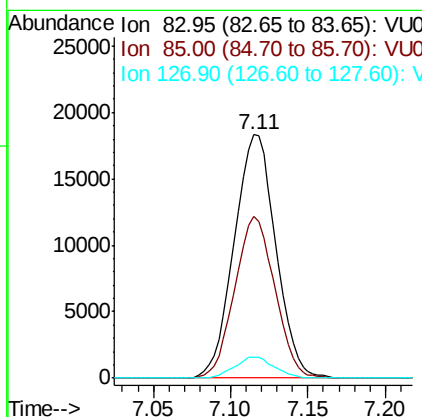
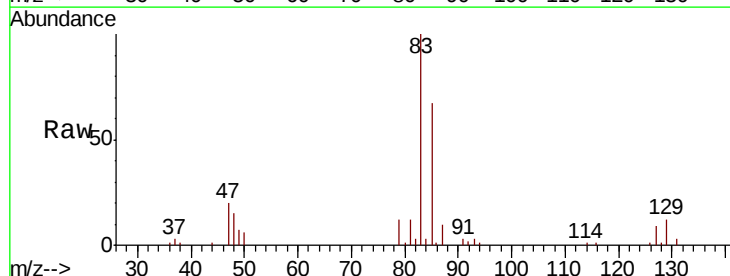
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

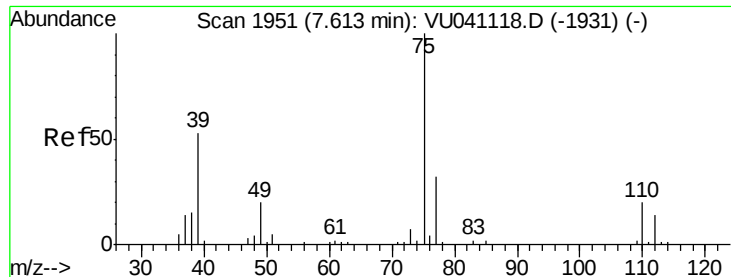
Tot Ion: 63 Resp: 26295
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.6 5.4



#38
 Bromodichloromethane
 Concen: 4.775 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Tgt Ion: 83 Resp: 34280
 Ion Ratio Lower Upper
 83 100
 85 66.6 43.3 80.3
 127 8.8 5.9 8.9

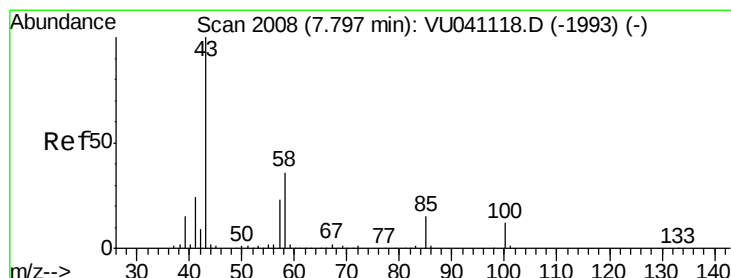
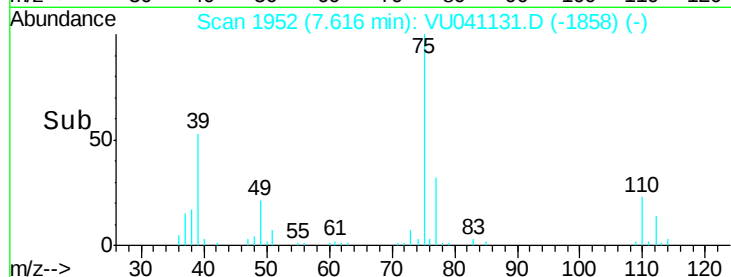
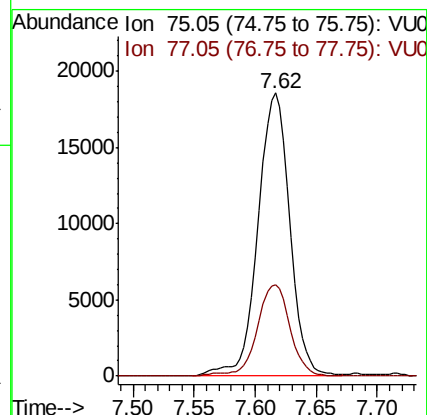
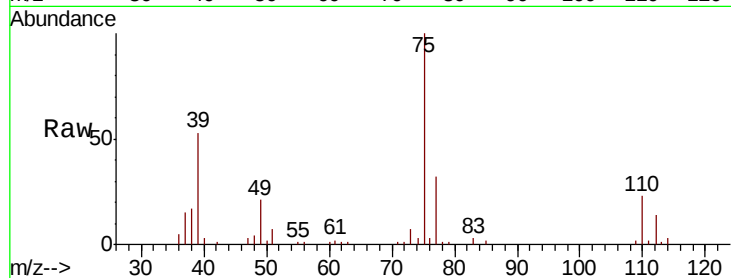




#39
 cis-1,3-Dichloropropene
 Concen: 4.396 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

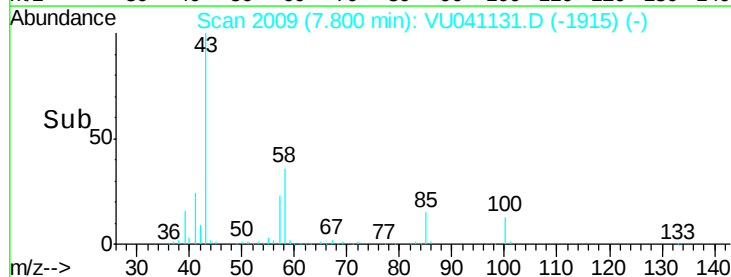
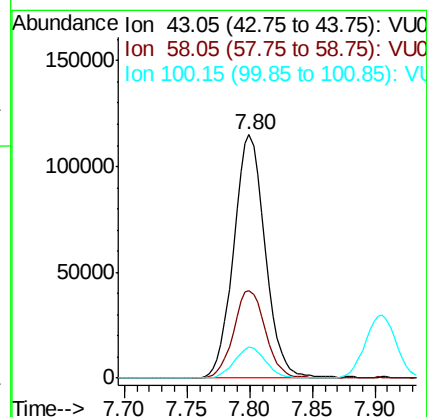
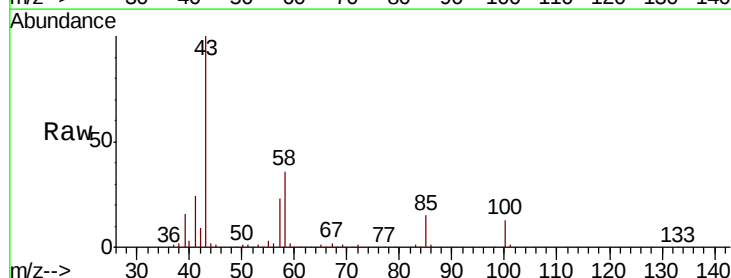
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

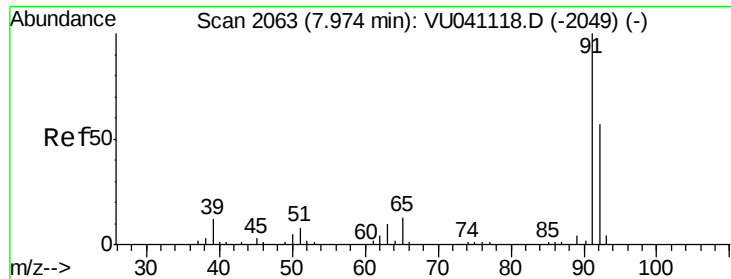
Tot Ion: 75 Resp: 33494
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 45.430 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Tgt Ion: 43 Resp: 200460
 Ion Ratio Lower Upper
 43 100
 58 36.4 29.8 44.6
 100 12.5 10.5 15.7





#42

Toluene

Concen: 4.737 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

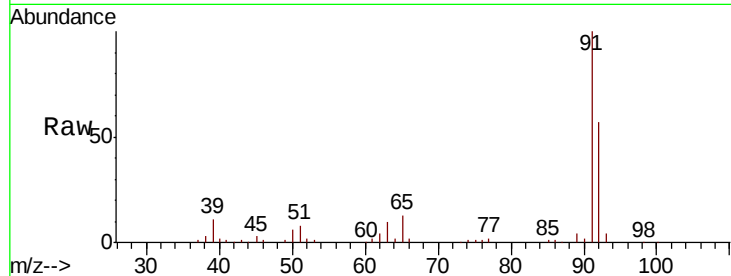
VSTD00520

Tot Ion: 91 Resp: 98246

Ion Ratio Lower Upper

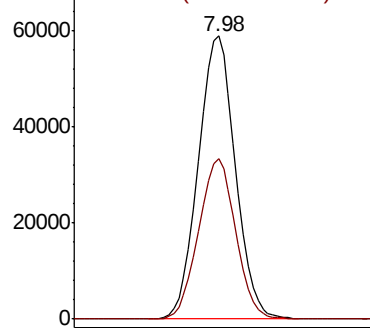
91 100

92 56.5 40.6 75.4

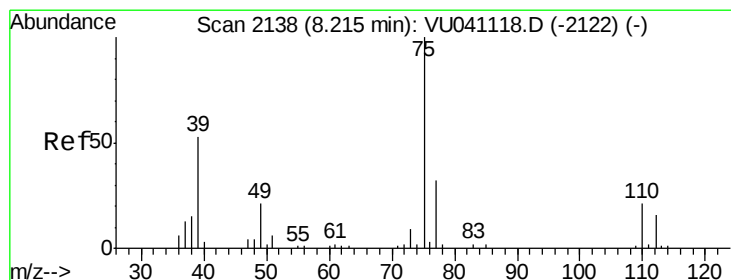
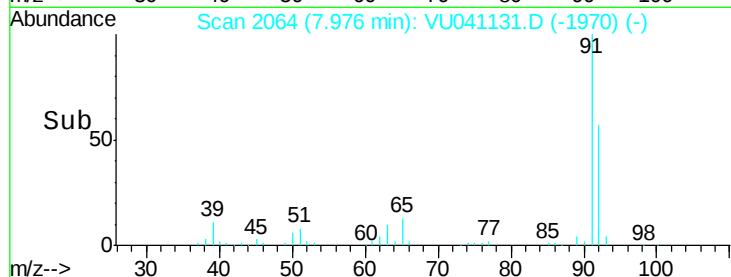


Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.557 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU041131.D

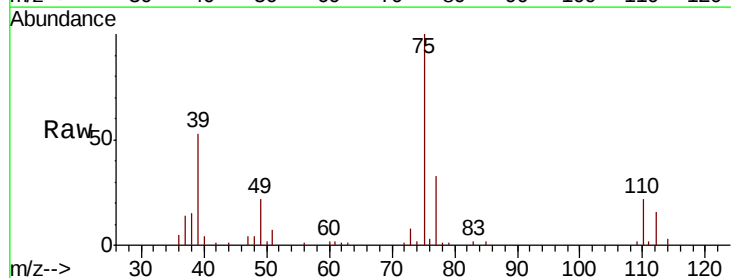
Acq: 06 Nov 2020 22:27

Tgt Ion: 75 Resp: 32494

Ion Ratio Lower Upper

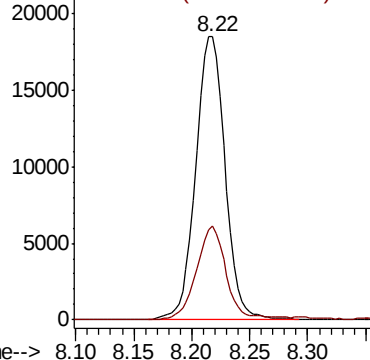
75 100

77 33.0 23.3 43.3

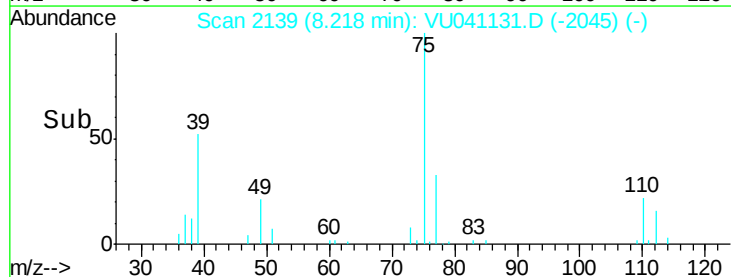


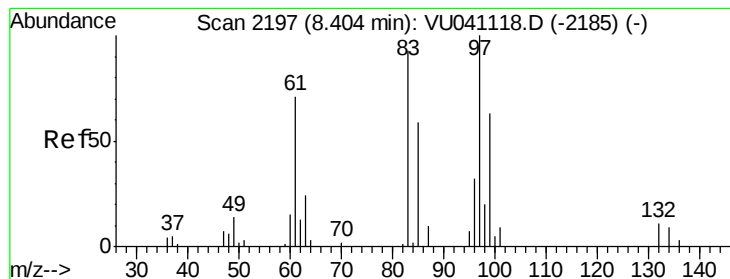
Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



Time-->





#45

1,1,2-Trichloroethane

Concen: 4.726 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

Tot Ion: 97 Resp: 19470

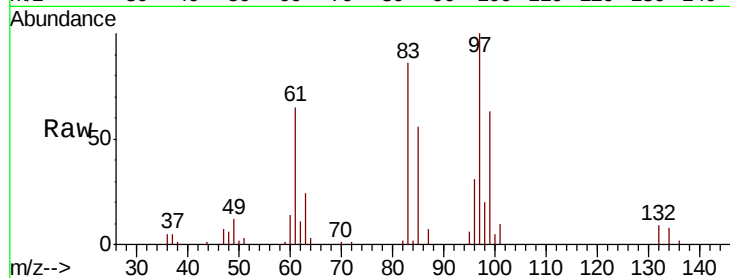
Ion Ratio Lower Upper

97 100

99 62.5 45.8 85.2

83 85.7 67.9 126.1

85 55.9 42.8 79.6

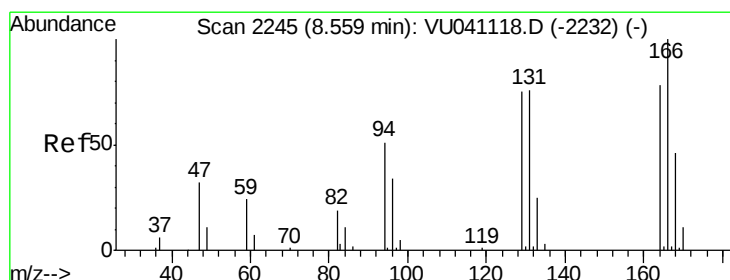
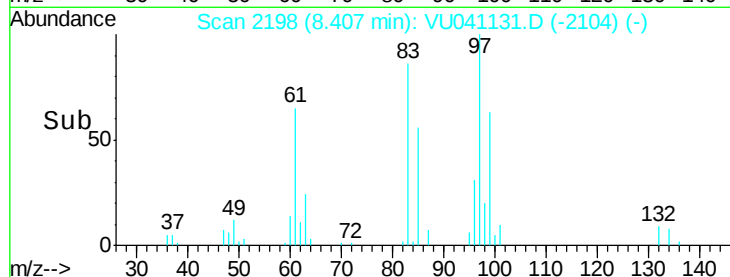
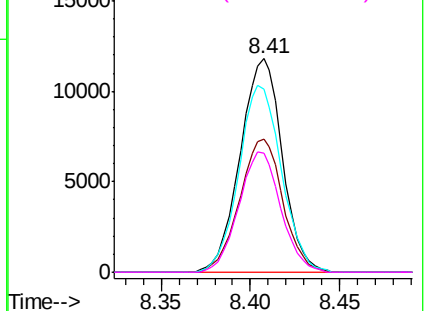


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.673 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Tgt Ion: 164 Resp: 17885

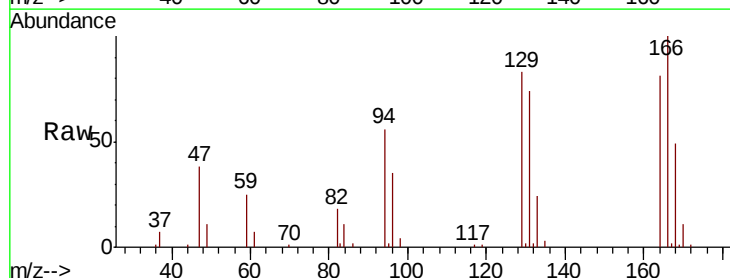
Ion Ratio Lower Upper

164 100

129 103.3 70.3 130.7

131 92.0 70.8 131.4

166 123.8 92.0 170.8

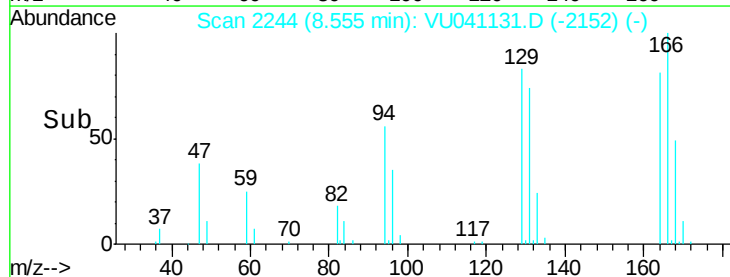
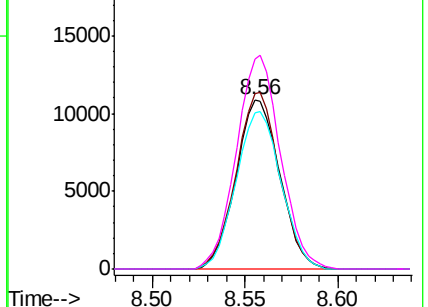


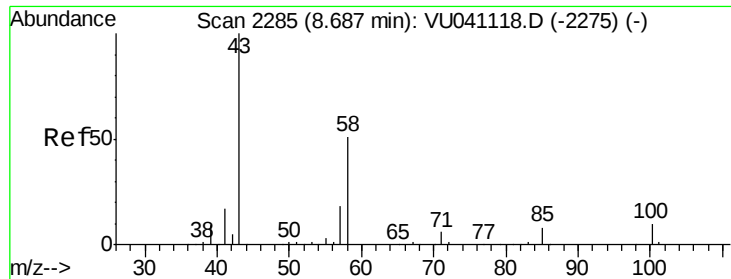
Abundance Ion 163.90 (163.60 to 164.60): V

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

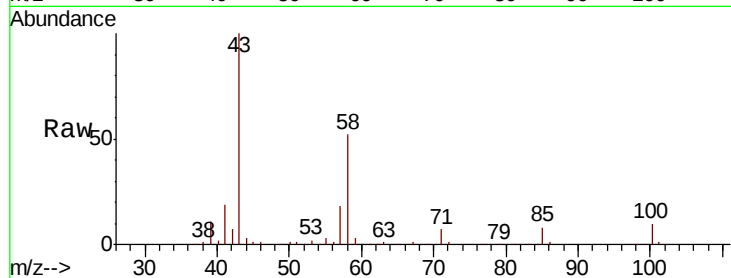




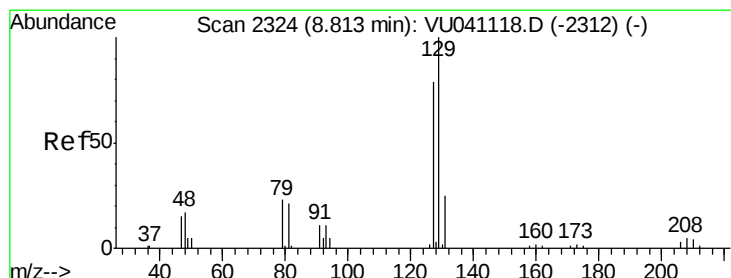
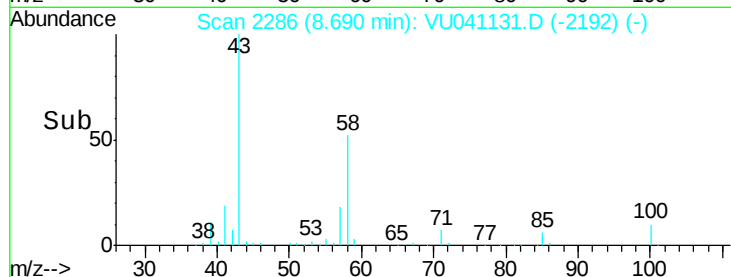
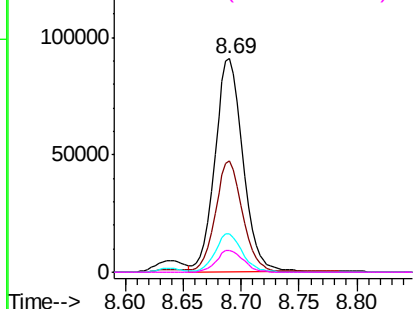
#48
2-Hexanone
Concen: 46.156 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

Tot Ion: 43 Resp: 153351
Ion Ratio Lower Upper
43 100
58 50.1 41.4 62.2
57 17.5 14.6 21.8
100 10.0 8.3 12.5

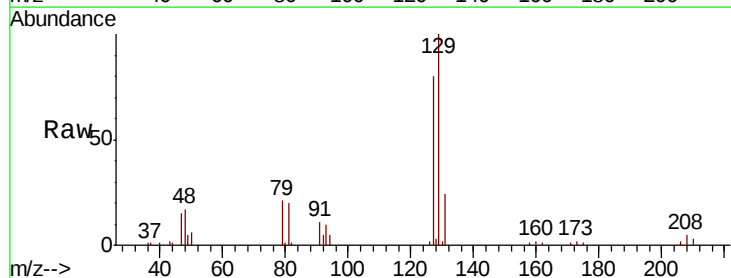


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

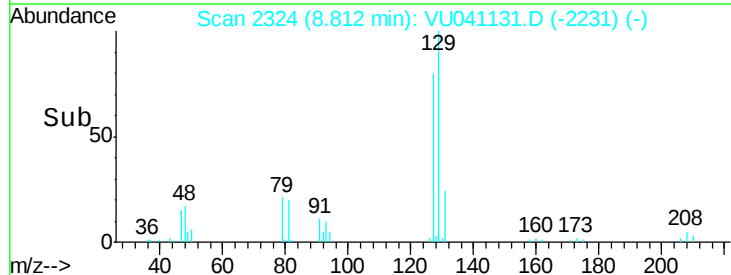
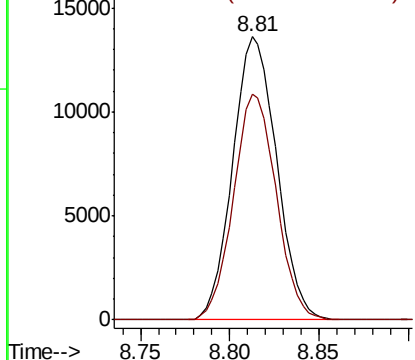


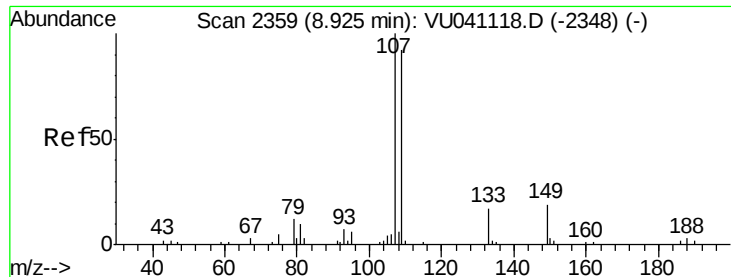
#49
Dibromochloromethane
Concen: 4.868 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Tgt Ion: 129 Resp: 23290
Ion Ratio Lower Upper
129 100
127 79.8 53.4 99.2



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

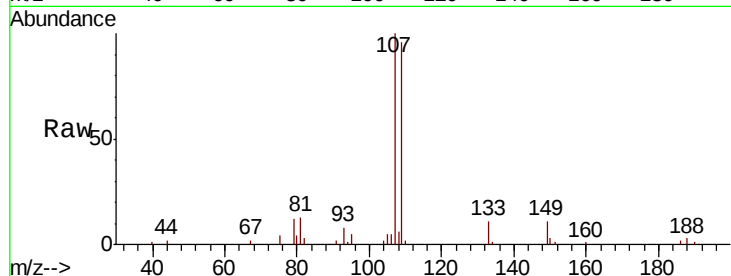




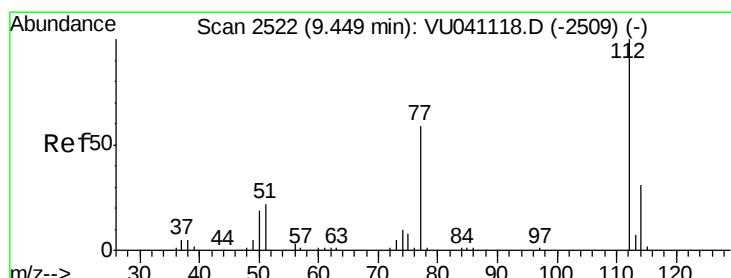
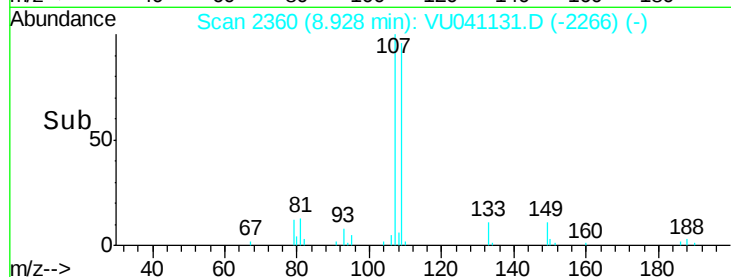
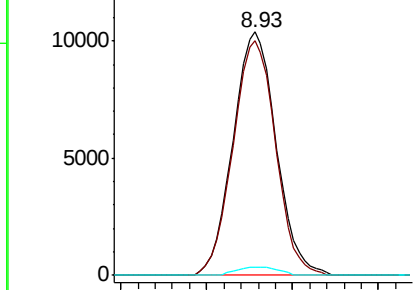
#50
 1,2-Dibromoethane
 Concen: 4.611 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.1	65.6	121.8
188	3.4	2.9	4.3

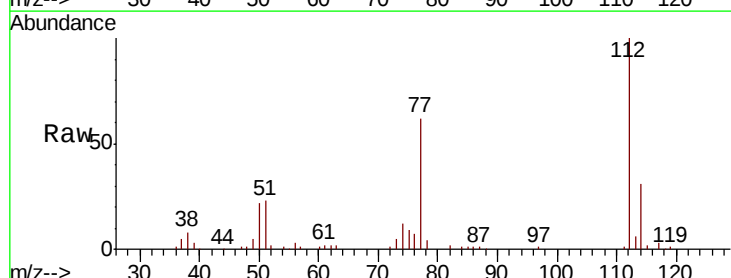


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

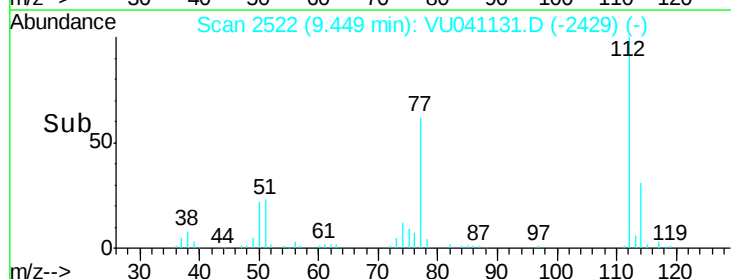
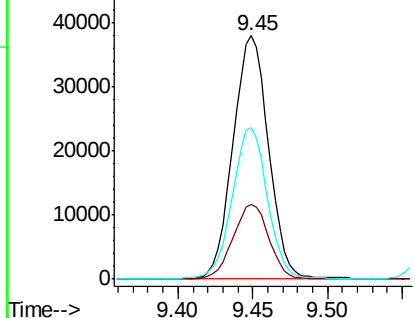


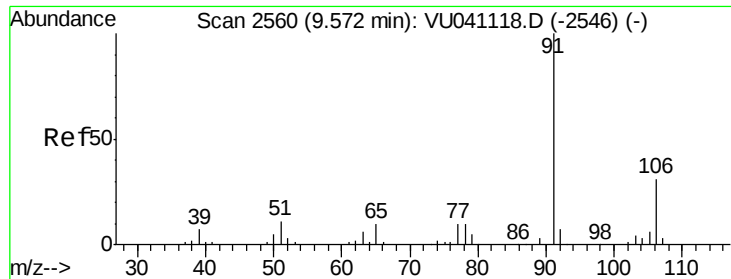
#51
 Chlorobenzene
 Concen: 4.765 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.4	41.6
77	61.9	51.2	76.8



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): V





#52

Ethylbenzene

Concen: 4.620 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

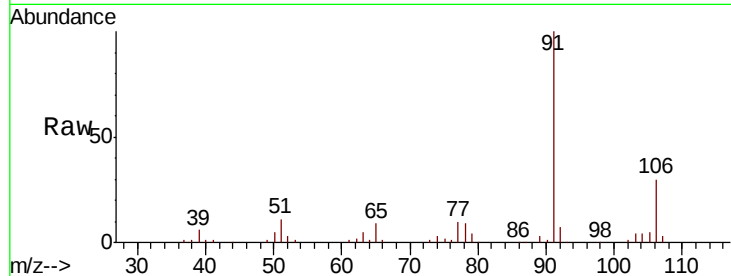
VSTD00520

Tot Ion: 91 Resp: 100853

Ion Ratio Lower Upper

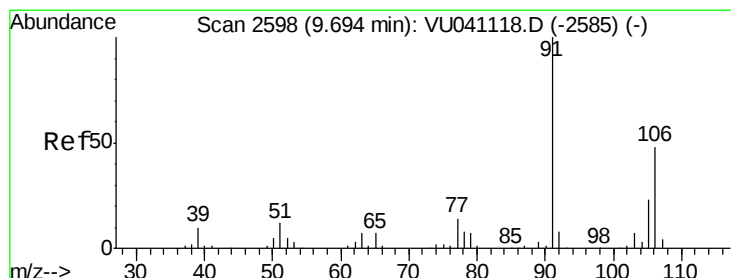
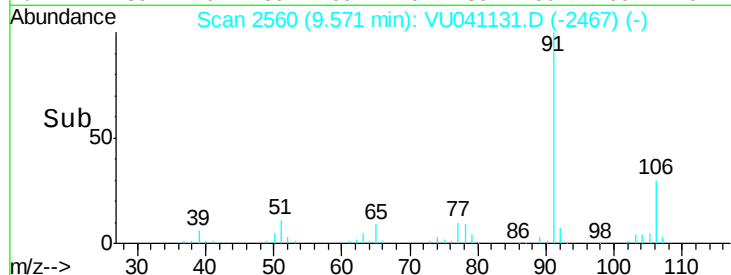
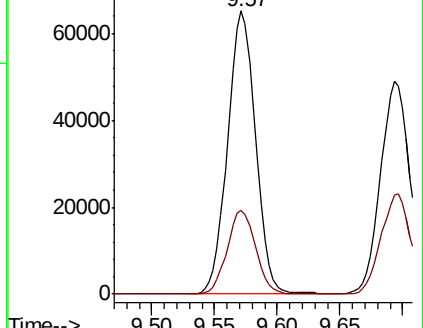
91 100

106 29.6 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU041131.D (-2546) (-)

Ion 106.15 (105.85 to 106.85): VU041131.D (-2546) (-)



#53

m,p-Xylene

Concen: 4.828 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU041131.D

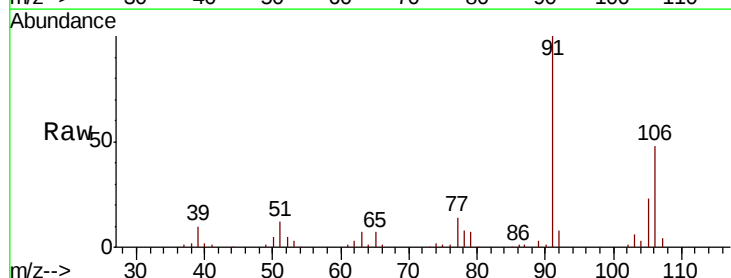
Acq: 06 Nov 2020 22:27

Tgt Ion: 106 Resp: 38438

Ion Ratio Lower Upper

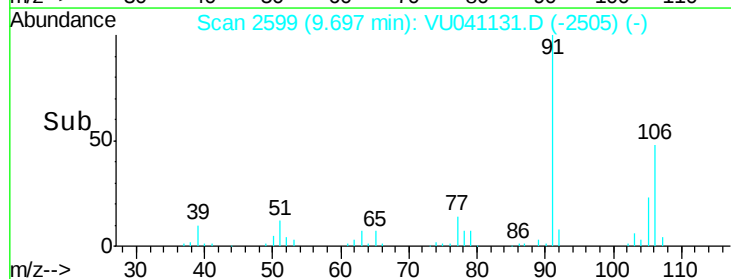
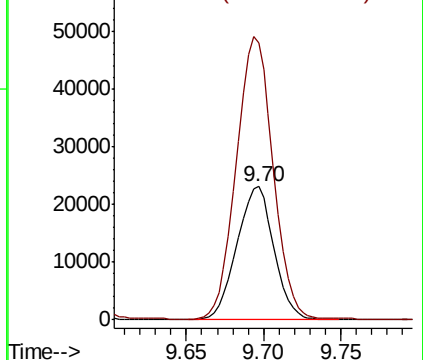
106 100

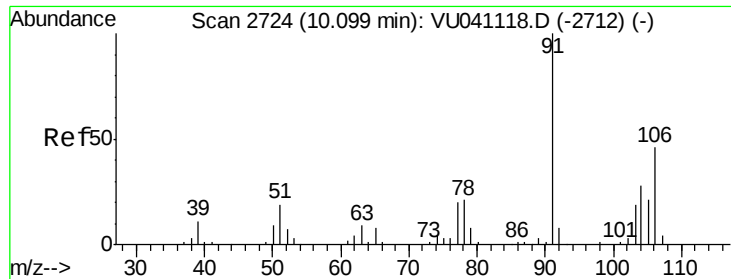
91 207.3 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): VU041131.D (-2598) (-)

Ion 91.15 (90.85 to 91.85): VU041131.D (-2598) (-)

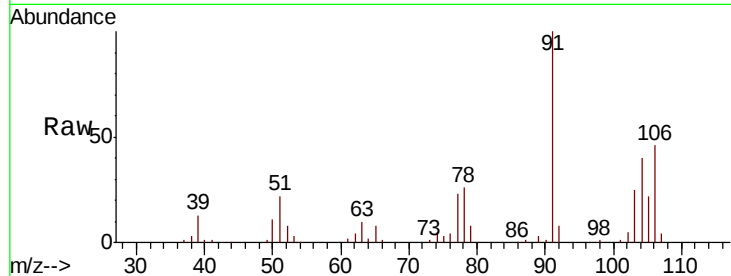




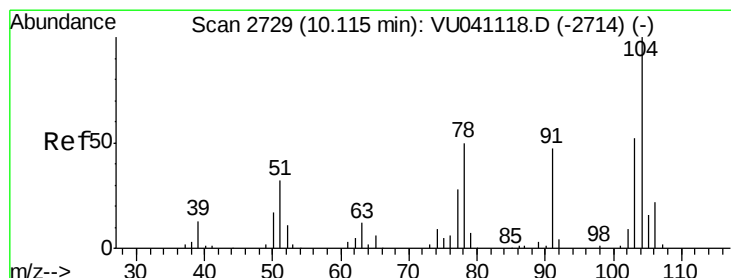
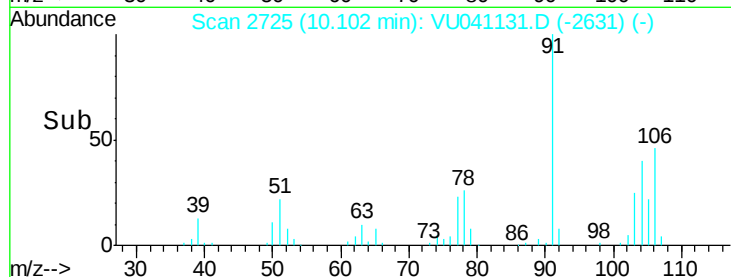
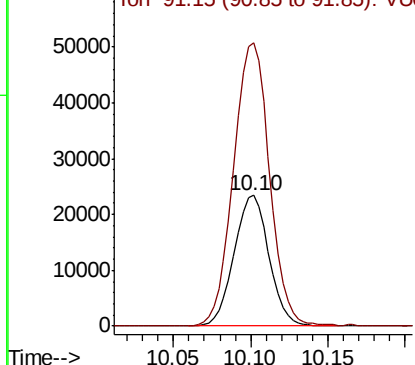
#54
o-Xylene
Concen: 4.956 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD00520

Tot Ion:106 Resp: 36746
Ion Ratio Lower Upper
106 100
91 216.9 154.3 286.5

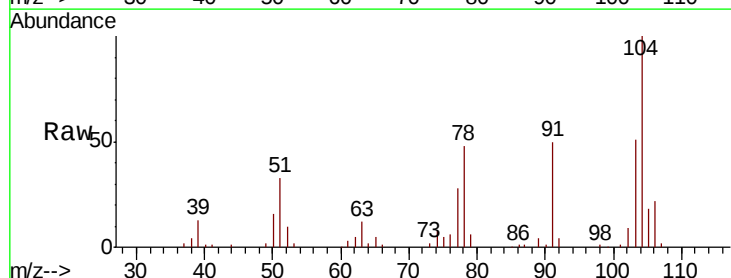


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

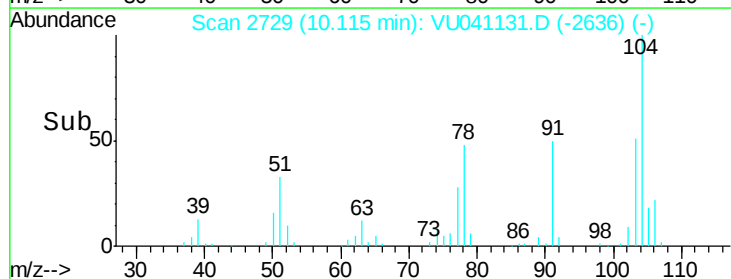
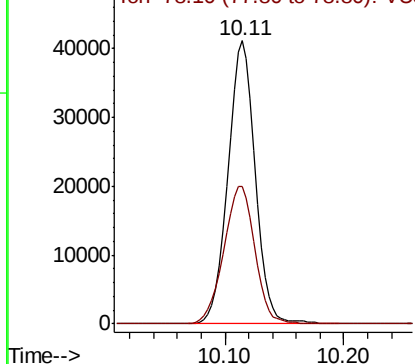


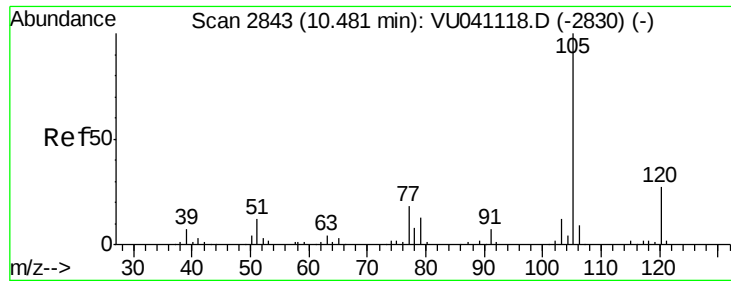
#55
Styrene
Concen: 4.936 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU041131.D
Acq: 06 Nov 2020 22:27

Tgt Ion:104 Resp: 65211
Ion Ratio Lower Upper
104 100
78 48.5 35.5 65.9



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





#56

Isopropylbenzene

Concen: 5.032 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

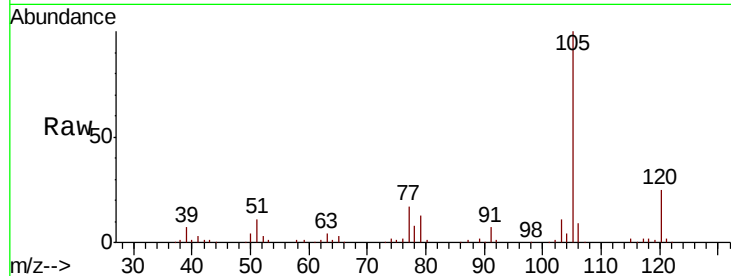
Tot Ion:105 Resp: 100339

Ion Ratio Lower Upper

105 100

120 25.3 20.7 31.1

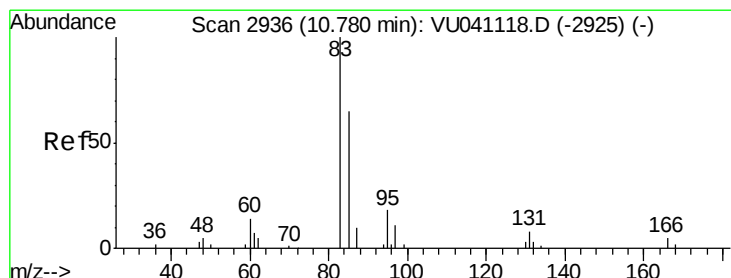
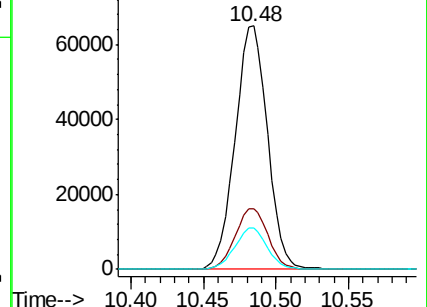
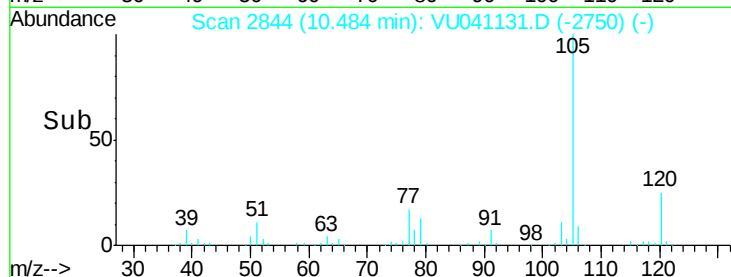
77 16.9 13.8 20.6



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: 4.543 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

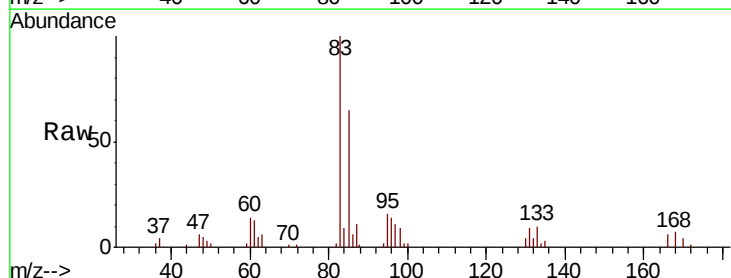
Tgt Ion: 83 Resp: 24582

Ion Ratio Lower Upper

83 100

85 64.6 44.4 82.4

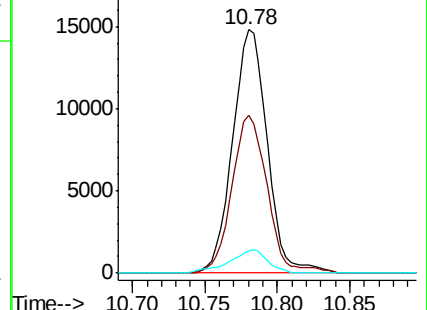
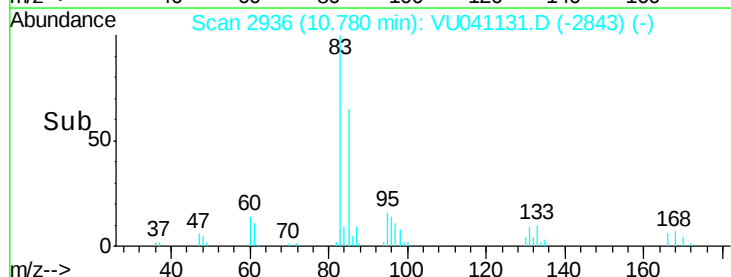
131 9.1 7.7 11.5

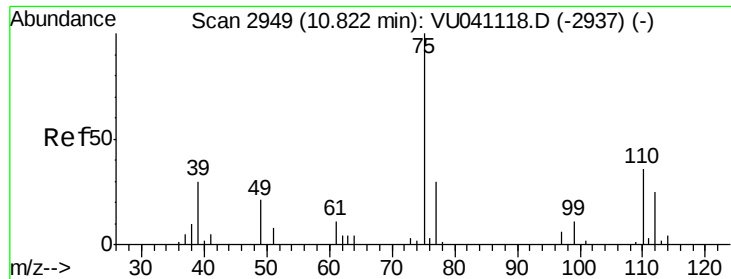


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.658 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

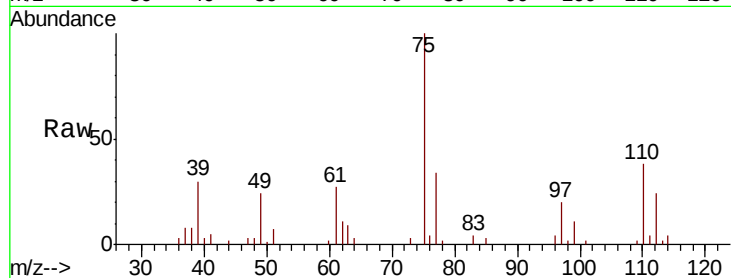
VSTD00520

Tot Ion: 75 Resp: 19212

Ion Ratio Lower Upper

75 100

77 31.7 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU041118.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU041118.D (-2937) (-)

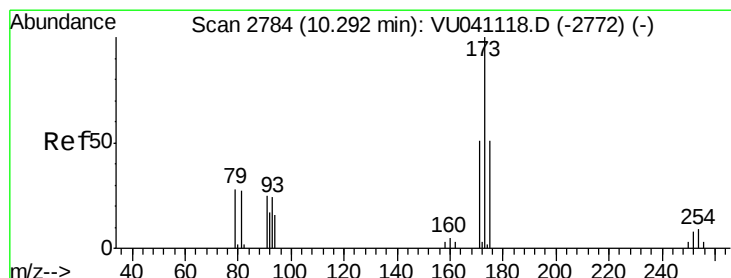
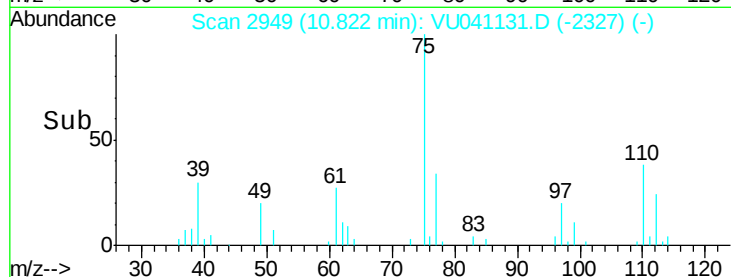
10.82

10000

5000

0

Time-->



#61

Bromoform

Concen: 4.597 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

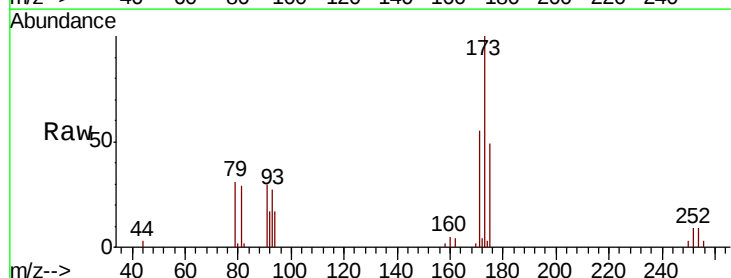
Tgt Ion: 173 Resp: 13196

Ion Ratio Lower Upper

173 100

175 48.4 37.6 56.4

254 8.4 6.6 9.8



Abundance Ion 172.90 (172.60 to 173.60): VU041118.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU041118.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU041118.D (-2772) (-)

10.29

10000

8000

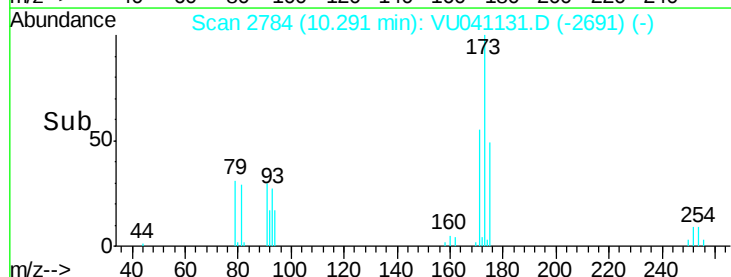
6000

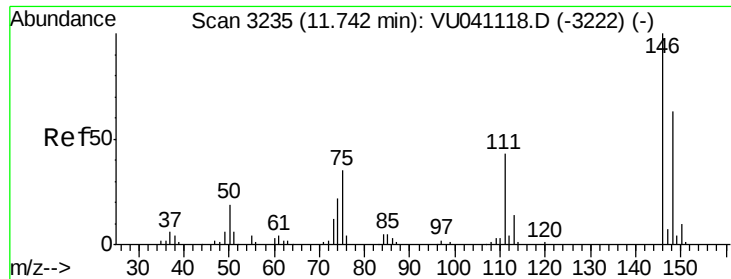
4000

2000

0

Time-->

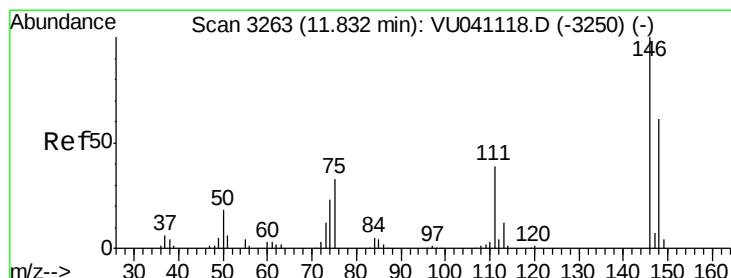
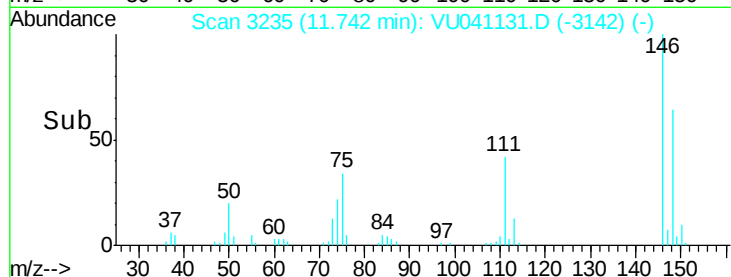
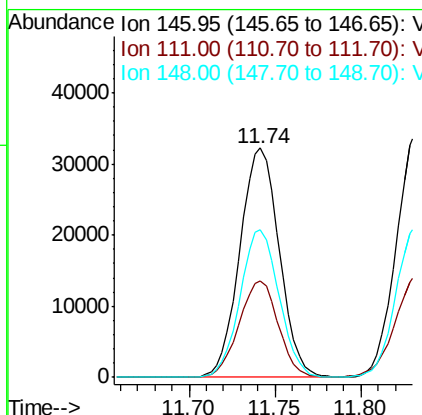
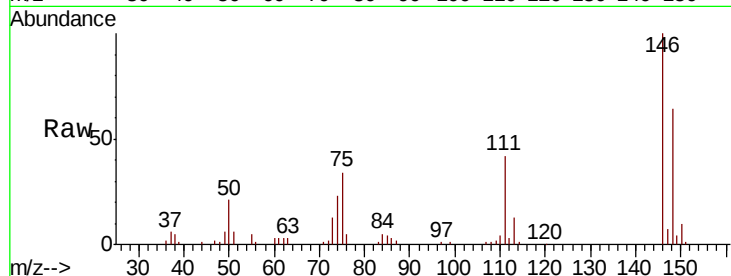




#62
 1,3-Dichlorobenzene
 Concen: 4.763 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

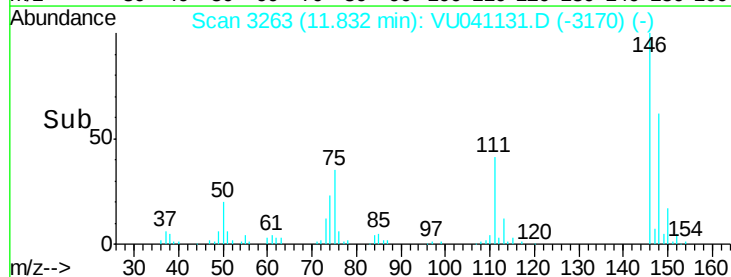
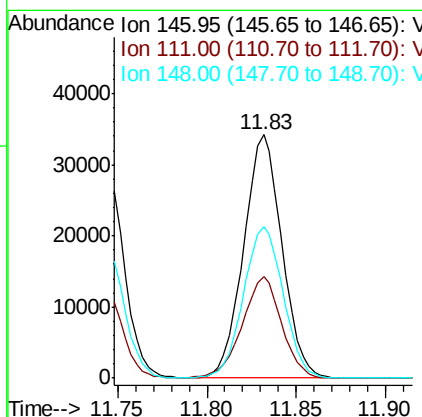
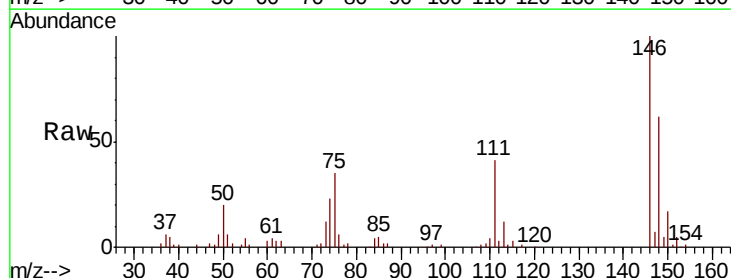
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

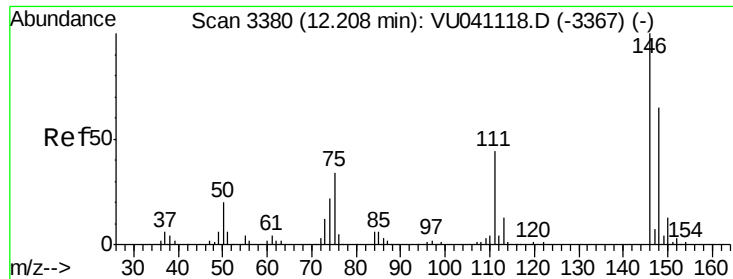
Tot Ion:146 Resp: 51210
 Ion Ratio Lower Upper
 146 100
 111 42.3 30.9 57.3
 148 64.4 45.8 85.2



#63
 1,4-Dichlorobenzene
 Concen: 4.631 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Tgt Ion:146 Resp: 51563
 Ion Ratio Lower Upper
 146 100
 111 41.5 28.3 52.7
 148 62.0 44.2 82.2





#65

1,2-Dichlorobenzene

Concen: 4.689 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

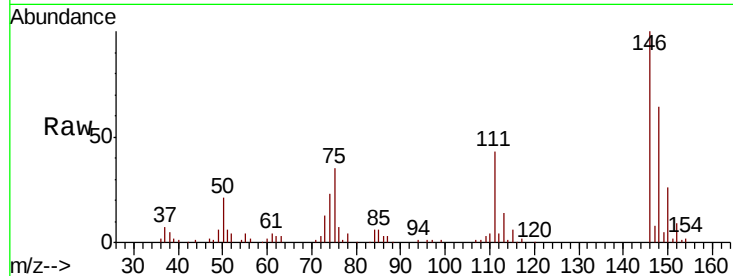
Tot Ion:146 Resp: 49747

Ion Ratio Lower Upper

146 100

111 43.3 35.0 52.6

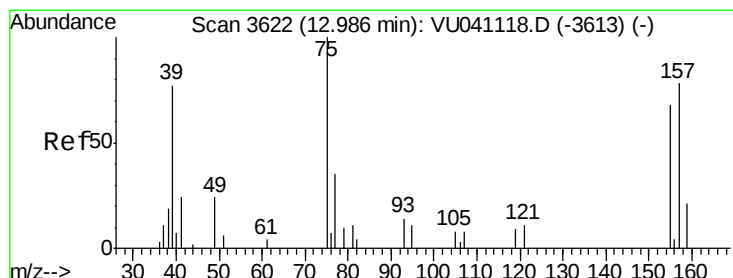
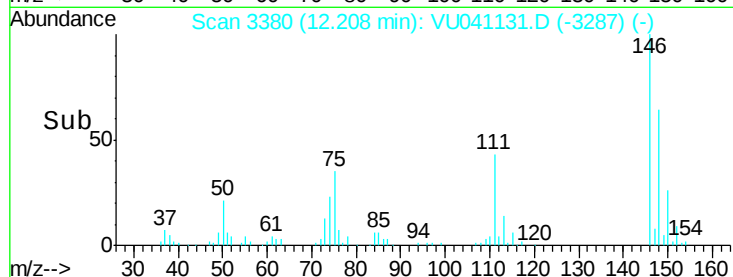
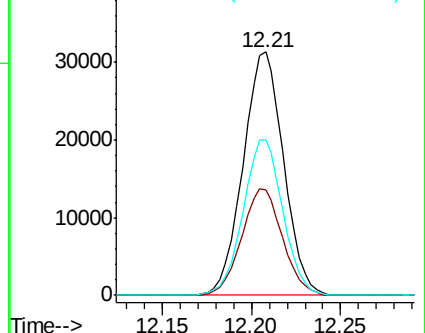
148 64.0 52.0 78.0



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.345 ug/L

RT: 12.99 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

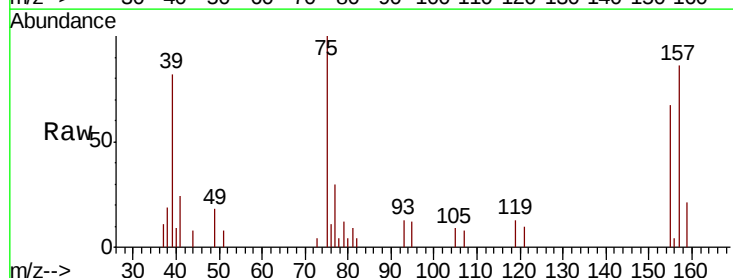
Tgt Ion: 75 Resp: 4518

Ion Ratio Lower Upper

75 100

155 67.2 61.4 92.2

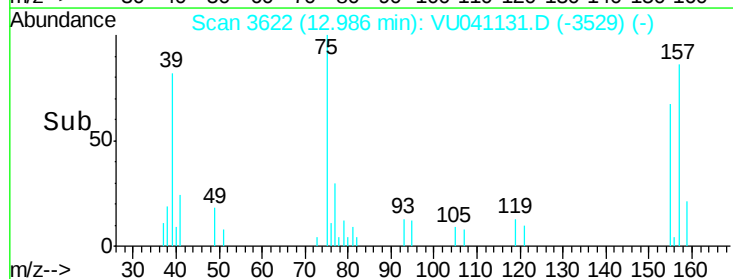
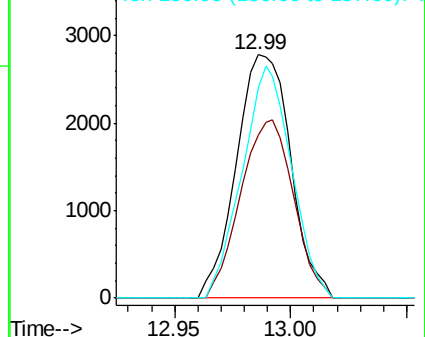
157 86.4 74.2 111.4

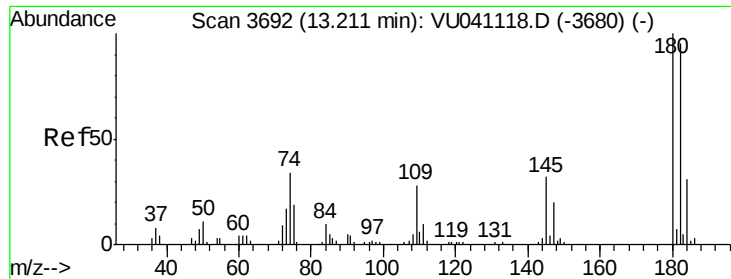


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

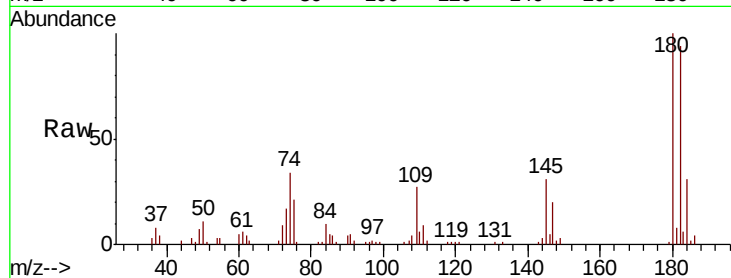




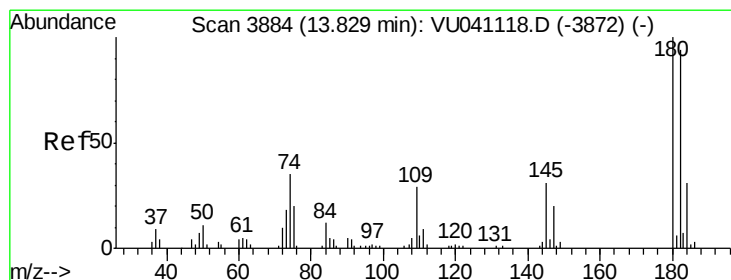
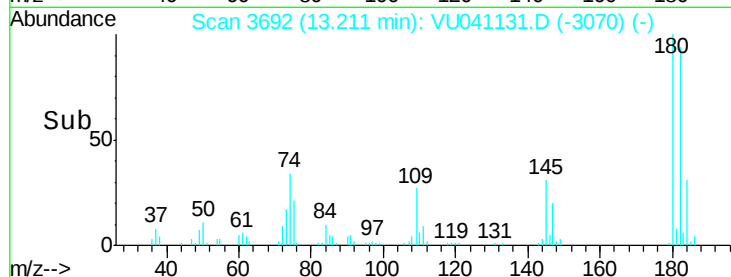
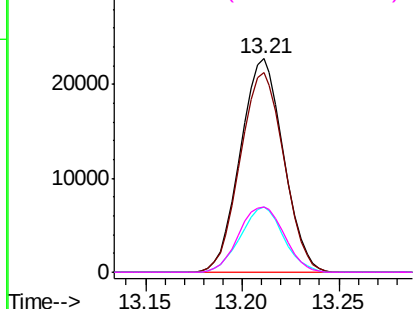
#67
 1,3,5-Trichlorobenzene
 Concen: 4.696 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00520

Tot Ion:180 Resp: 35311
 Ion Ratio Lower Upper
 180 100
 182 94.8 75.7 113.5
 184 30.5 23.7 35.5
 145 32.3 26.1 39.1

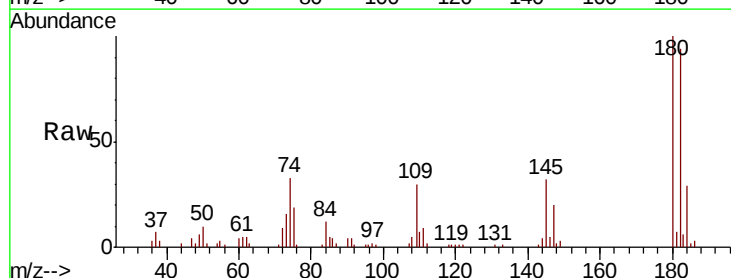


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

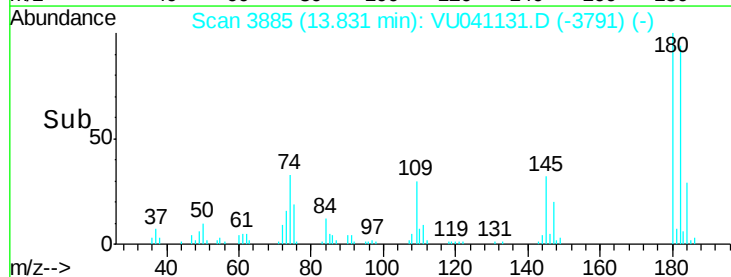
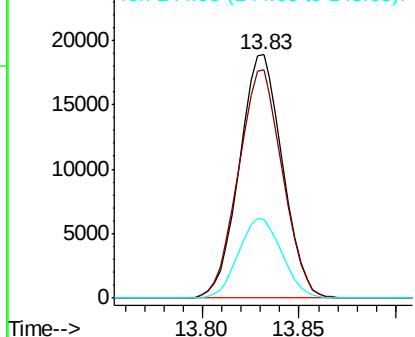


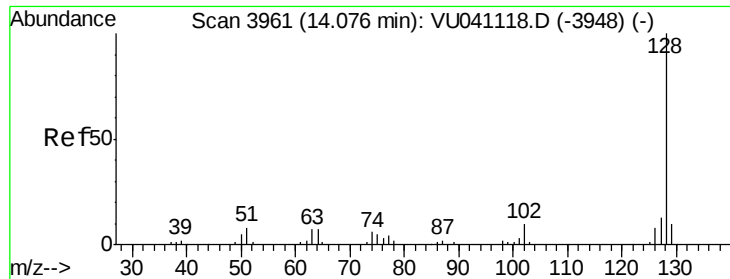
#68
 1,2,4-trichlorobenzene
 Concen: 4.698 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU041131.D
 Acq: 06 Nov 2020 22:27

Tgt Ion:180 Resp: 29263
 Ion Ratio Lower Upper
 180 100
 182 95.7 73.5 110.3
 145 32.9 26.6 40.0



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: 4.170 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD00520

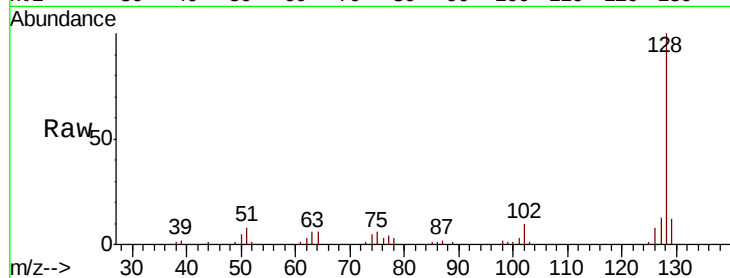
Tot Ion:128 Resp: 46450

Ion Ratio Lower Upper

128 100

129 11.2 8.7 13.1

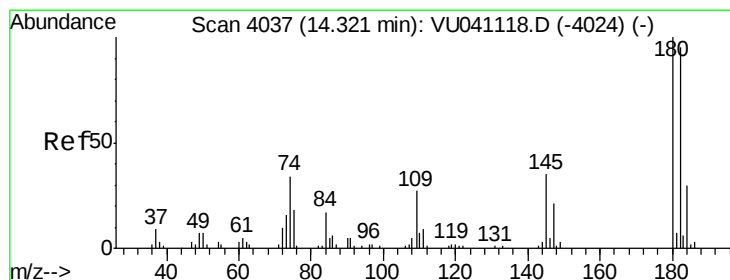
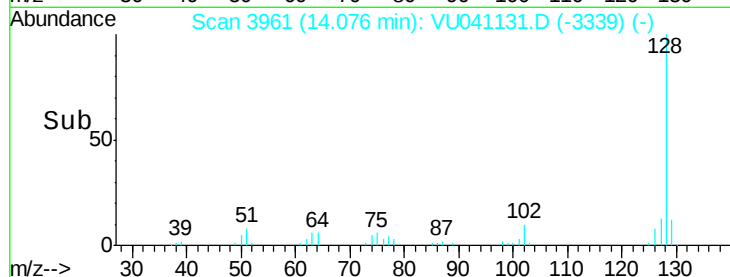
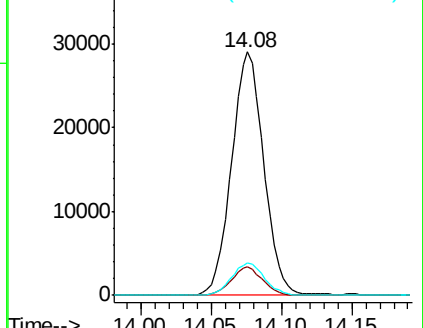
127 13.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.860 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU041131.D

Acq: 06 Nov 2020 22:27

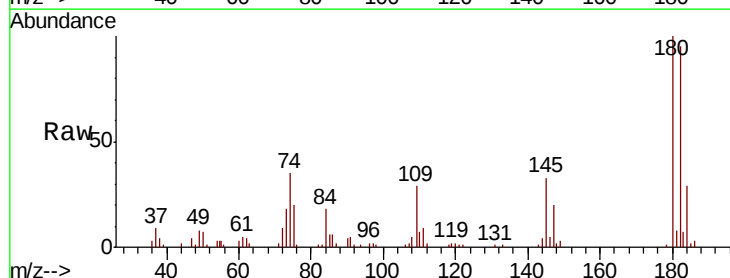
Tgt Ion:180 Resp: 27900

Ion Ratio Lower Upper

180 100

182 94.2 77.7 116.5

145 34.3 29.4 44.0



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

