

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122220\
 Data File : VU041743.D
 Acq On : 22 Dec 2020 15:48
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Quant Time: Dec 23 04:08:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 23 04:05:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	135799	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	130338	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	68477	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	43882	4.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.60%
7) Chloroethane-d5	1.92	69	44279	5.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.80%
11) 1,1-Dichloroethene-d2	2.58	63	90994	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.00%
20) 2-Butanone-d5	4.66	46	150436	49.33	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.66%
24) Chloroform-d	5.08	84	88609	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.40%
26) 1,2-Dichloroethane-d4	5.72	65	48761	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
32) Benzene-d6	5.74	84	171556	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.70	67	53667	4.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.80%
41) Toluene-d8	7.91	98	154580	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
43) trans-1,3-Dichloropropene-	8.19	79	23430	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.64	63	136475	47.45	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.90%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	54316	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	58143	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	57118	4.965	ug/L 100
3) Chloromethane	1.53	50	53263	4.765	ug/L 98
5) Vinyl chloride	1.61	62	63321	5.130	ug/L 98
6) Bromomethane	1.86	94	45717	5.925	ug/L 99
8) Chloroethane	1.94	64	42940	5.122	ug/L 95
9) Trichlorofluoromethane	2.15	101	95665	6.124	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	54394	5.822	ug/L 97
12) 1,1-Dichloroethene	2.59	96	53077	5.762	ug/L 91
13) Acetone	2.67	43	93262	48.078	ug/L 100
14) Carbon disulfide	2.81	76	148589	4.667	ug/L 100
15) Methyl Acetate	2.97	43	22584	4.478	ug/L # 90
16) Methylene chloride	3.06	84	55465	5.041	ug/L 92
17) Methyl tert-butyl Ether	3.38	73	124555	5.067	ug/L 99
18) trans-1,2-Dichloroethene	3.37	96	50562	5.306	ug/L 89
19) 1,1-Dichloroethane	3.89	63	89950	5.051	ug/L 97
21) 2-Butanone	4.74	43	155521	49.221	ug/L 95
22) cis-1,2-Dichloroethene	4.69	96	54506	5.176	ug/L 100

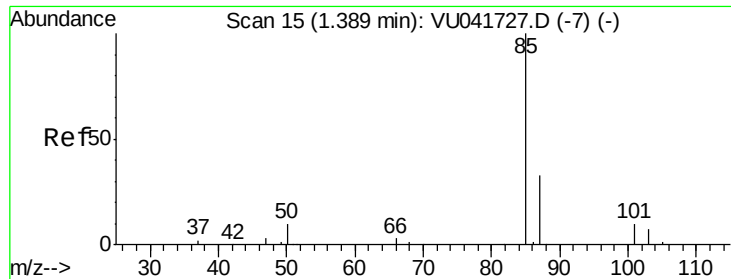
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122220\
 Data File : VU041743.D
 Acq On : 22 Dec 2020 15:48
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
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Instrument :
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 VSTD00525

Quant Time: Dec 23 04:08:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 23 04:05:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	27035	5.588	ug/L	92
25) Chloroform	5.11	83	95657	5.334	ug/L	98
27) 1,2-Dichloroethane	5.81	62	61233	5.042	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	81499	5.445	ug/L	97
30) Cyclohexane	5.40	56	77334	4.610	ug/L	95
31) Carbon tetrachloride	5.54	117	70567	5.452	ug/L	95
33) Benzene	5.79	78	212581	5.100	ug/L	100
34) Trichloroethene	6.55	95	54843	5.236	ug/L	93
35) Methylcyclohexane	6.77	83	81081	4.789	ug/L	96
37) 1,2-Dichloropropane	6.80	63	53568	5.024	ug/L	98
38) Bromodichloromethane	7.12	83	69599	5.247	ug/L	98
39) cis-1,3-Dichloropropene	7.62	75	76953	4.871	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	358076	47.197	ug/L	96
42) Toluene	7.98	91	224927	5.227	ug/L	99
44) trans-1,3-Dichloropropene	8.22	75	72070	5.101	ug/L	98
45) 1,1,2-Trichloroethane	8.40	97	43404	5.505	ug/L	98
47) Tetrachloroethene	8.56	164	42057	5.736	ug/L	97
48) 2-Hexanone	8.69	43	271698	49.207	ug/L	98
49) Dibromochloromethane	8.82	129	50333	5.557	ug/L	98
50) 1,2-Dibromoethane	8.93	107	42339	5.428	ug/L	97
51) Chlorobenzene	9.45	112	142131	5.313	ug/L	97
52) Ethylbenzene	9.57	91	230401	5.028	ug/L	98
53) m,p-Xylene	9.69	106	90423	5.291	ug/L	97
54) o-Xylene	10.10	106	87528	5.229	ug/L	94
55) Styrene	10.11	104	150699	5.211	ug/L	100
56) Isopropylbenzene	10.48	105	230776	5.179	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	57375	5.229	ug/L	98
59) 1,2,3-Trichloropropane	10.82	75	41862	5.228	ug/L	99
61) Bromoform	10.29	173	30068	5.809	ug/L	95
62) 1,3-Dichlorobenzene	11.74	146	111452	5.322	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	109581	5.204	ug/L	99
65) 1,2-Dichlorobenzene	12.20	146	108109	5.272	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	9693	5.040	ug/L	95
67) 1,3,5-Trichlorobenzene	13.21	180	80617	5.071	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	61816	4.634	ug/L	98
69) Naphthalene	14.07	128	109694	3.972	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	59434	4.674	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.965 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

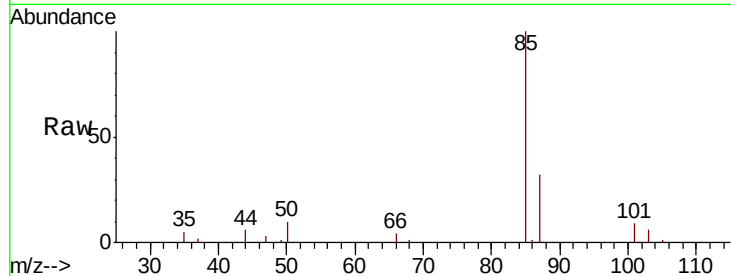
VSTD00525

Tot Ion: 85 Resp: 57118

Ion Ratio Lower Upper

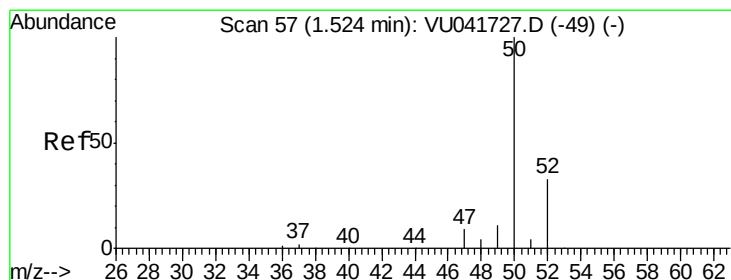
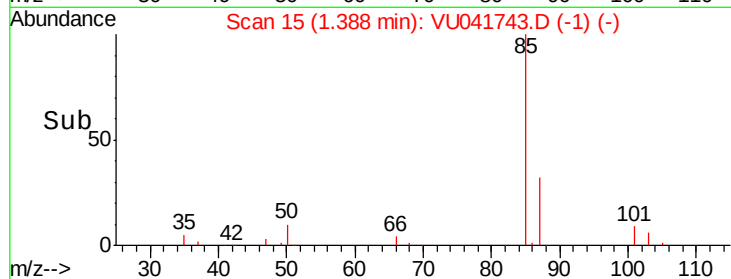
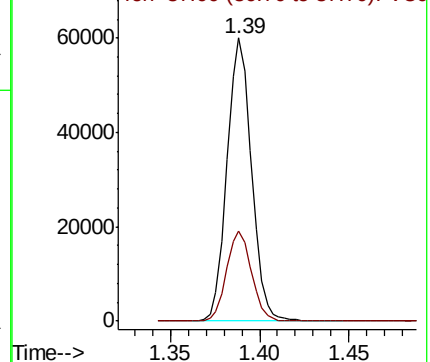
85 100

87 32.4 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.765 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041743.D

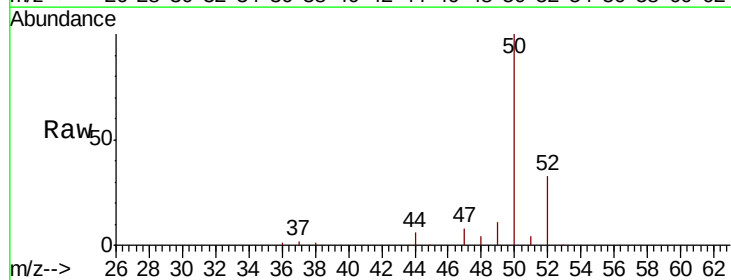
Acq: 22 Dec 2020 15:48

Tgt Ion: 50 Resp: 53263

Ion Ratio Lower Upper

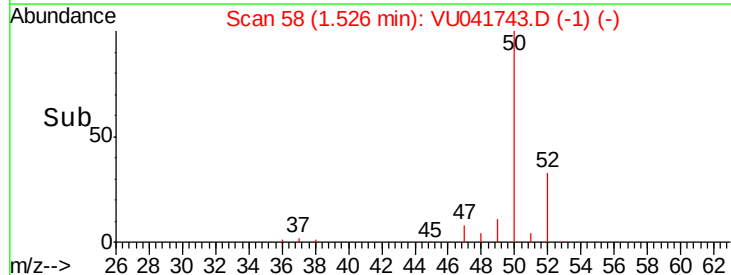
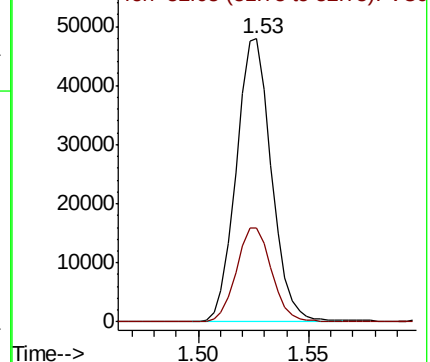
50 100

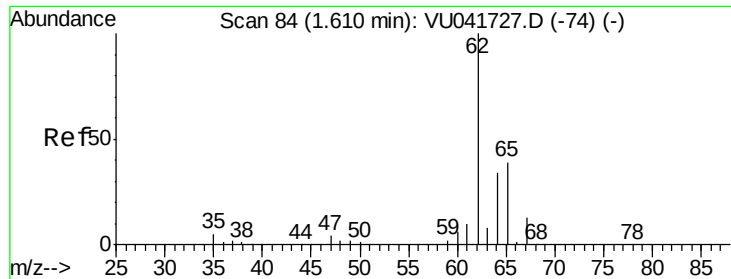
52 33.4 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 5.130 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

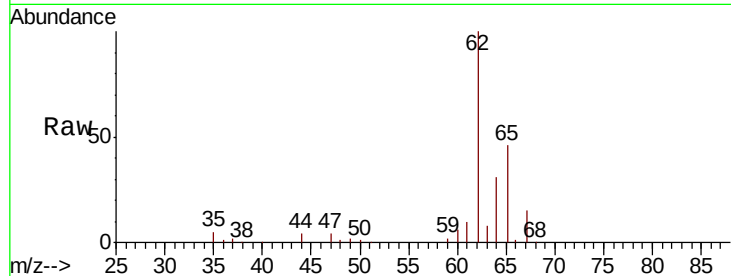
VSTD00525

Tot Ion: 62 Resp: 63321

Ion Ratio Lower Upper

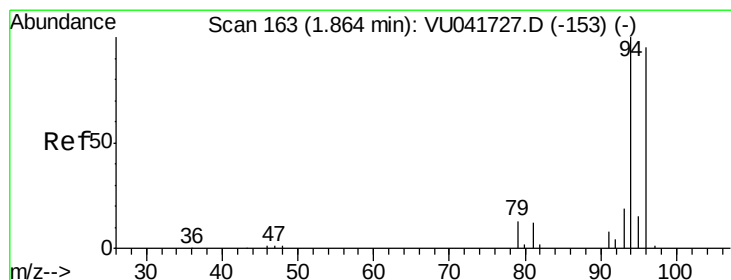
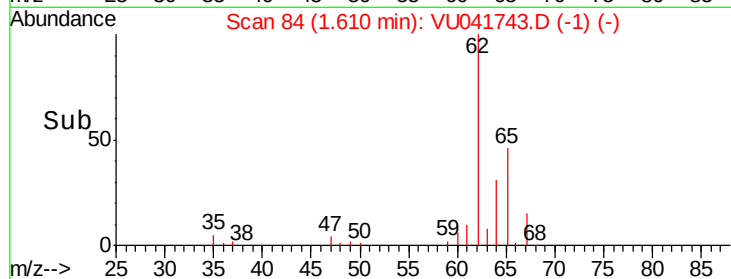
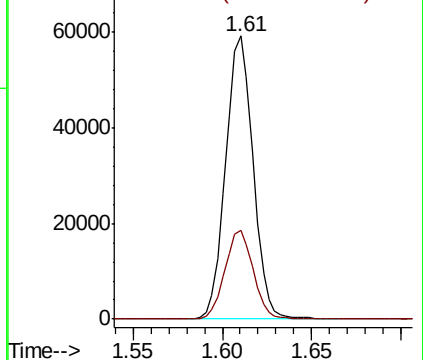
62 100

64 31.2 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 5.925 ug/L

RT: 1.86 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU041743.D

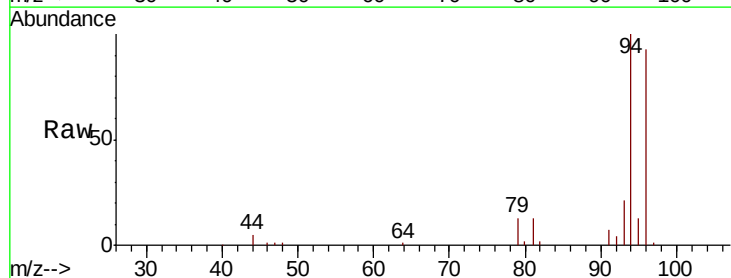
Acq: 22 Dec 2020 15:48

Tgt Ion: 94 Resp: 45717

Ion Ratio Lower Upper

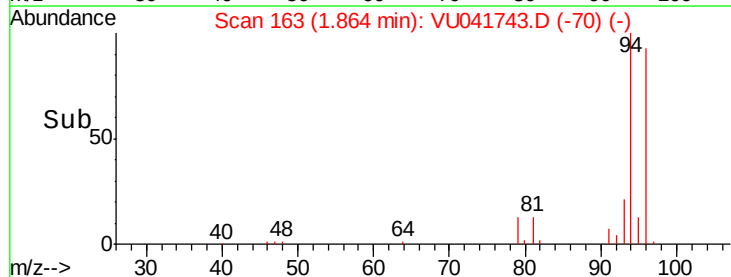
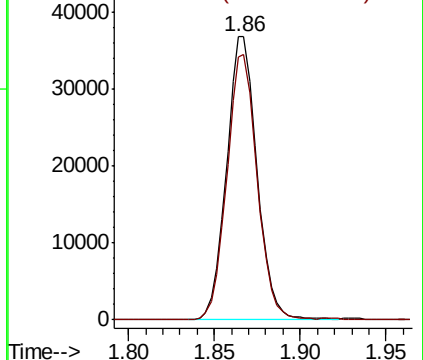
94 100

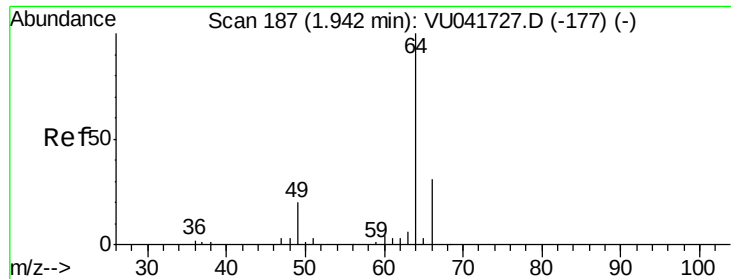
96 93.0 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

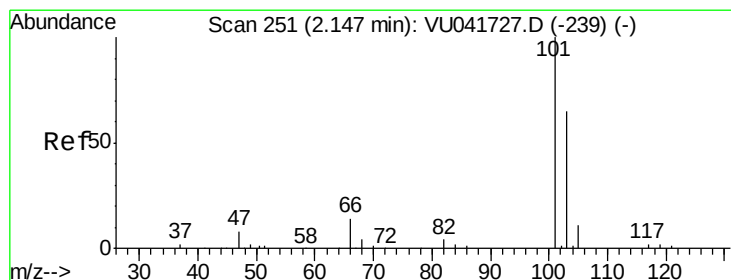
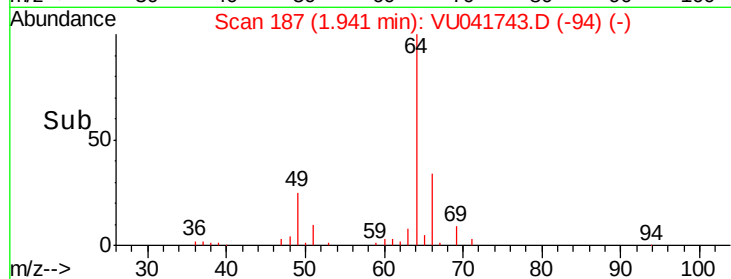
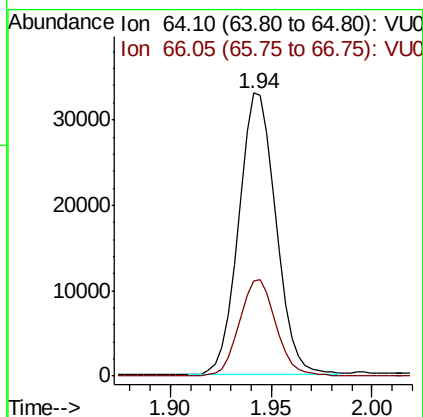
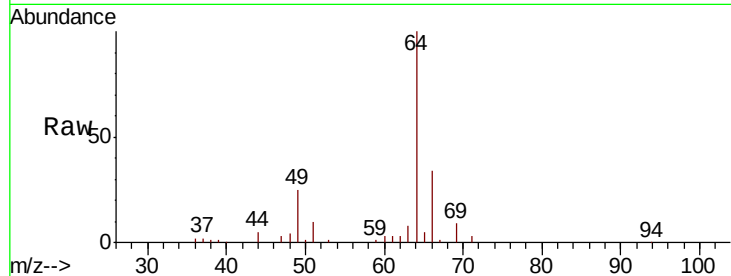




#8
Chloroethane
Concen: 5.122 ug/L
RT: 1.94 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

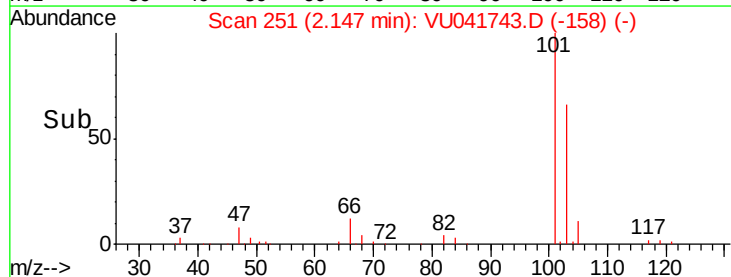
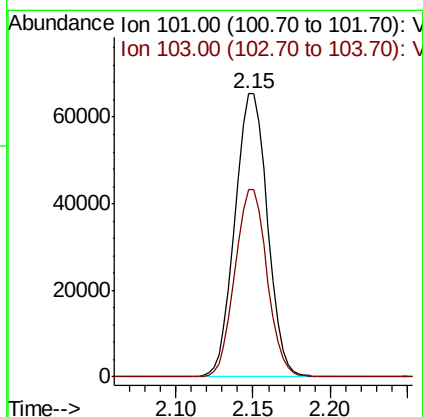
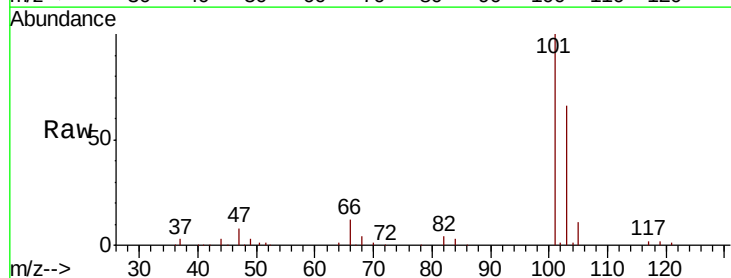
Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

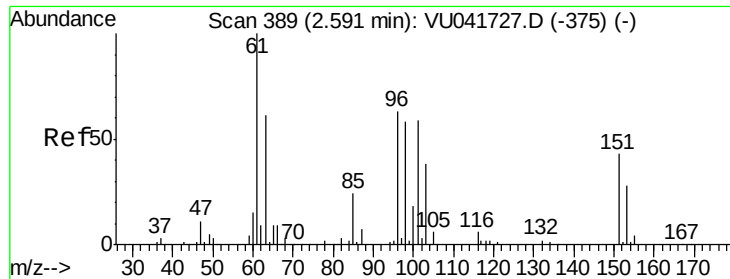
Tot Ion: 64 Resp: 42940
Ion Ratio Lower Upper
64 100
66 33.5 21.6 40.0



#9
Trichlorofluoromethane
Concen: 6.124 ug/L
RT: 2.15 min Scan# 251
Delta R.T. -0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

Tgt Ion:101 Resp: 95665
Ion Ratio Lower Upper
101 100
103 65.4 51.1 76.7





#10

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

Concen: 5.822 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

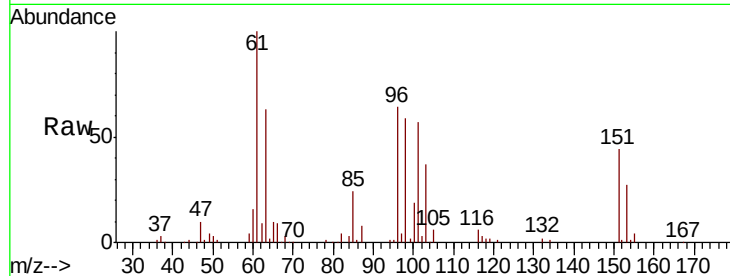
Tot Ion:101 Resp: 54394

Ion Ratio Lower Upper

101 100

85 41.9 33.6 50.4

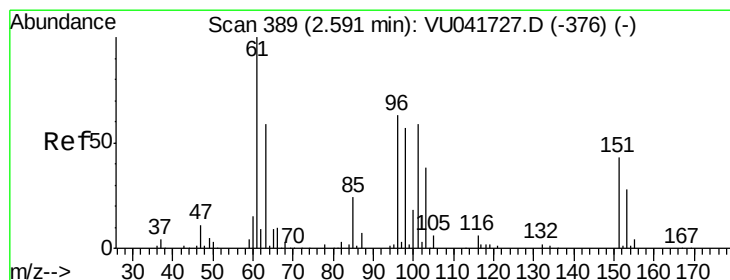
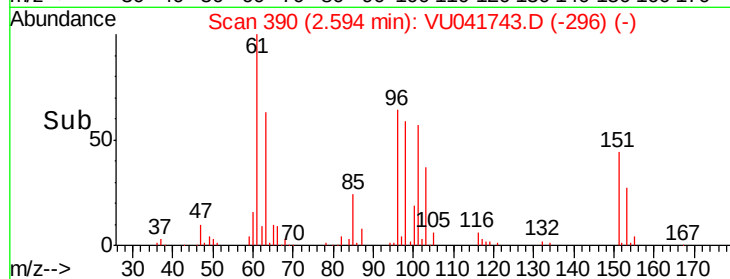
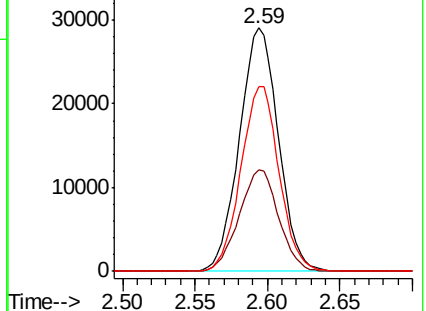
151 74.4 56.2 84.4



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: 5.762 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

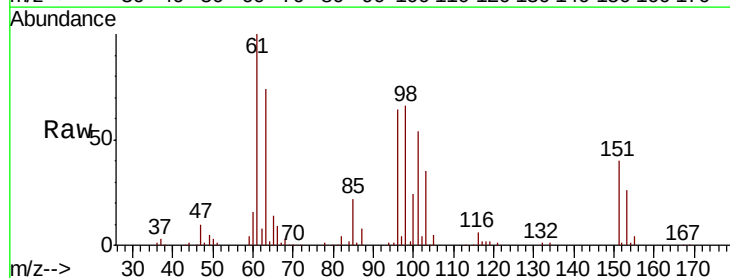
Tgt Ion: 96 Resp: 53077

Ion Ratio Lower Upper

96 100

61 157.0 123.8 230.0

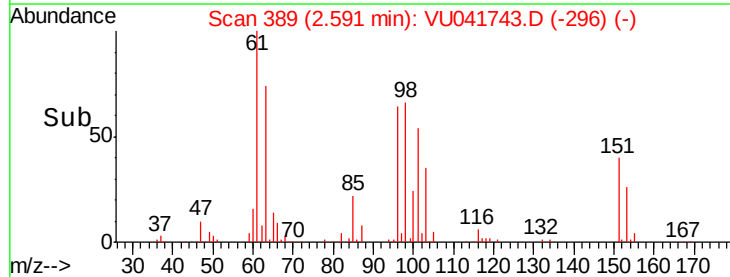
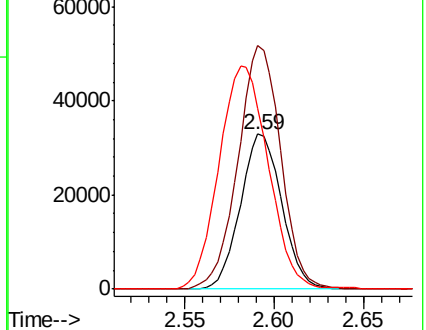
63 117.0 81.0 150.4

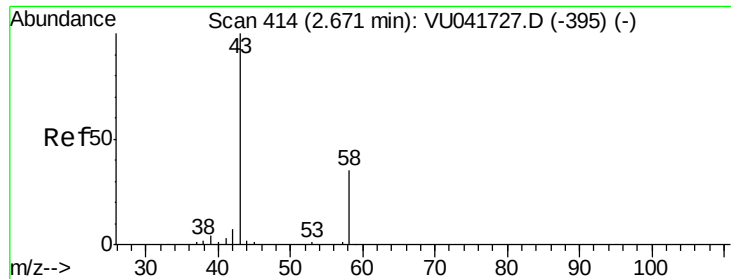


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.078 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

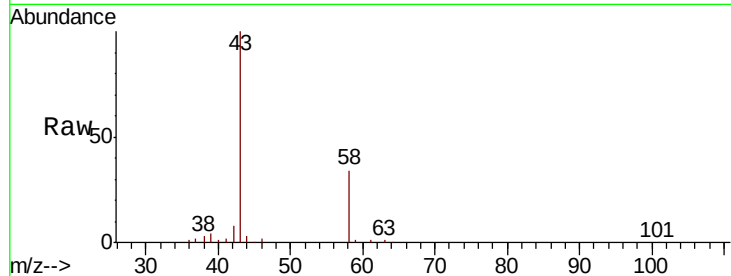
VSTD00525

Tot Ion: 43 Resp: 93262

Ion Ratio Lower Upper

43 100

58 36.5 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041727.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041727.D (-395) (-)

25000

20000

15000

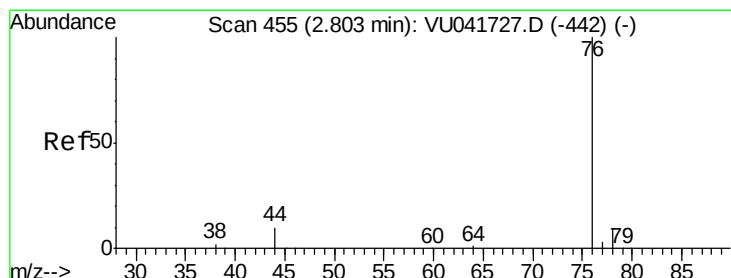
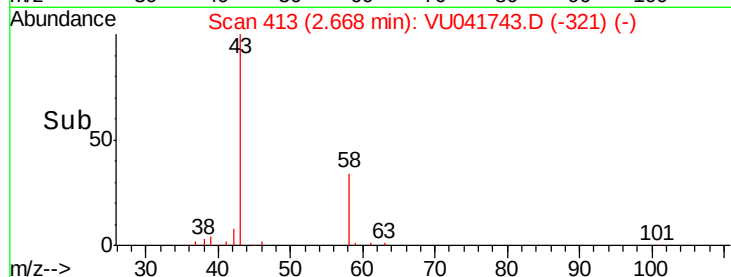
10000

5000

0

2.60 2.67 2.70 2.75 2.80

Time-->



#14

Carbon disulfide

Concen: 4.667 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041743.D

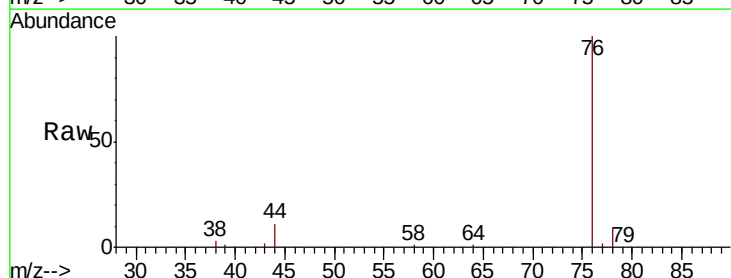
Acq: 22 Dec 2020 15:48

Tgt Ion: 76 Resp: 148589

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VU041727.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU041727.D (-442) (-)

100000

80000

60000

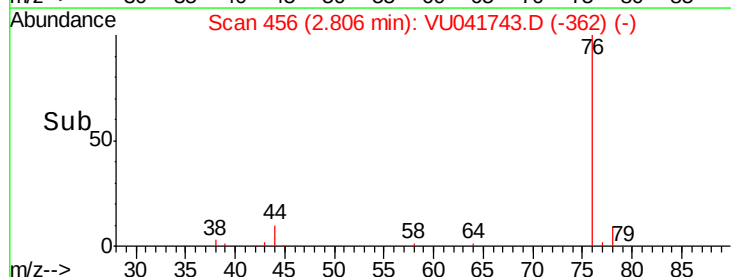
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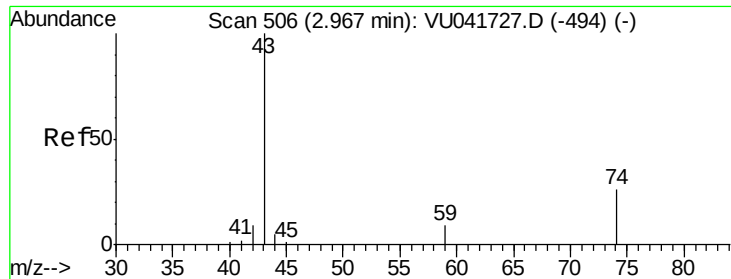
20000

0

2.70 2.80 2.81 2.85 2.90

Time-->

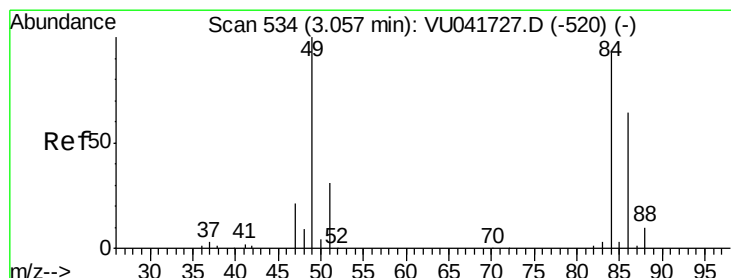
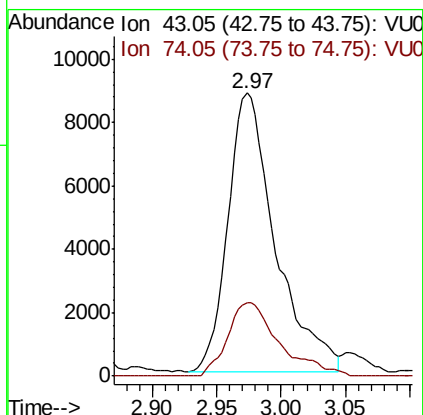
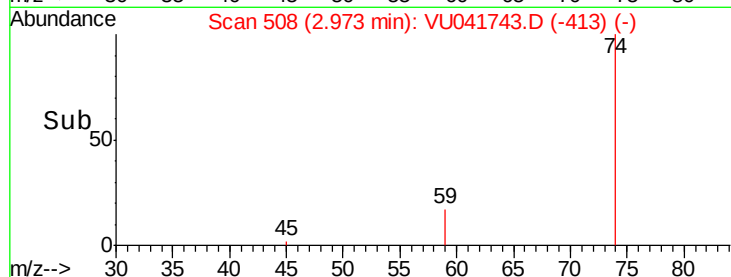
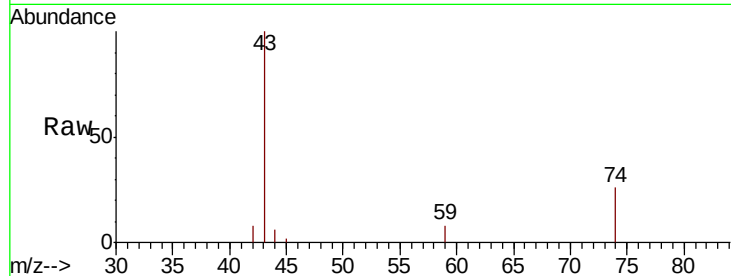




#15
Methyl Acetate
Concen: 4.478 ug/L
RT: 2.97 min Scan# 508
Delta R.T. 0.01 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

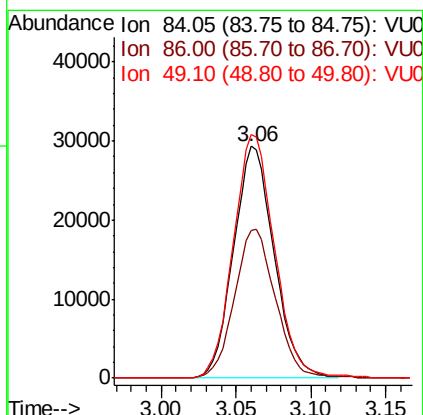
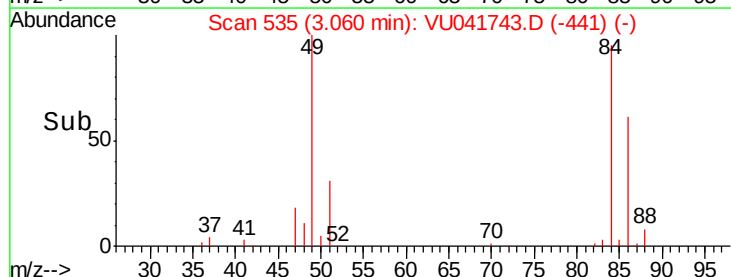
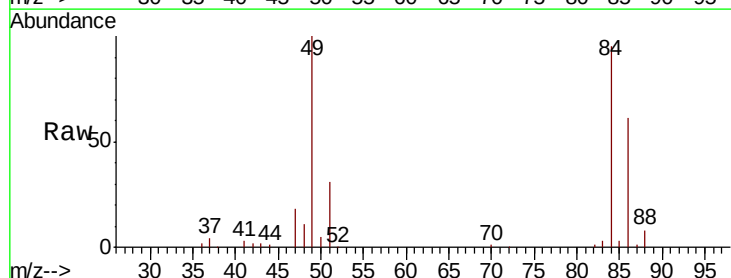
Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

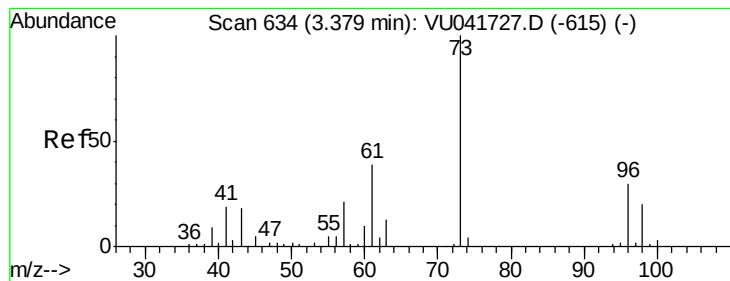
Tot Ion: 43 Resp: 22584
Ion Ratio Lower Upper
43 100
74 28.8 19.2 28.8#



#16
Methylene chloride
Concen: 5.041 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

Tgt Ion: 84 Resp: 55465
Ion Ratio Lower Upper
84 100
86 63.9 45.1 83.7
49 105.2 83.1 154.3



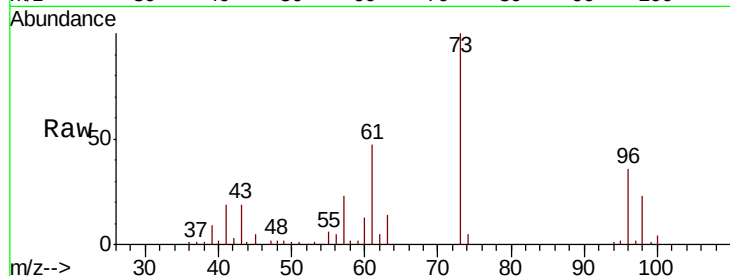


#17

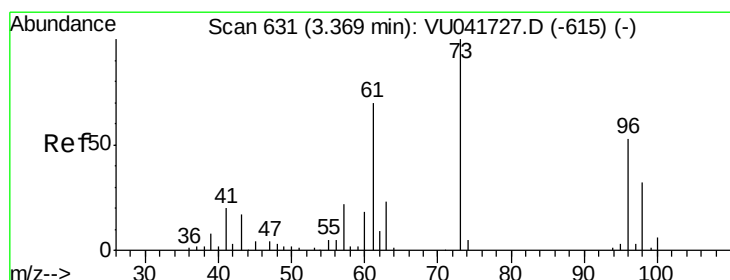
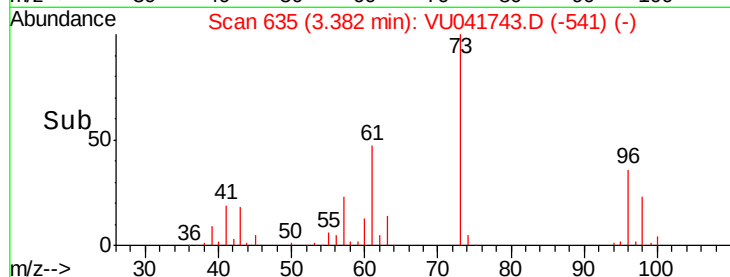
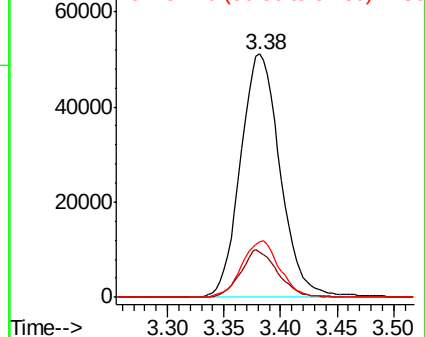
Methyl tert-butyl Ether
 Concen: 5.067 ug/L
 RT: 3.38 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion: 73 Resp: 124555
 Ion Ratio Lower Upper
 73 100
 43 18.5 14.7 22.1
 57 22.1 18.2 27.4



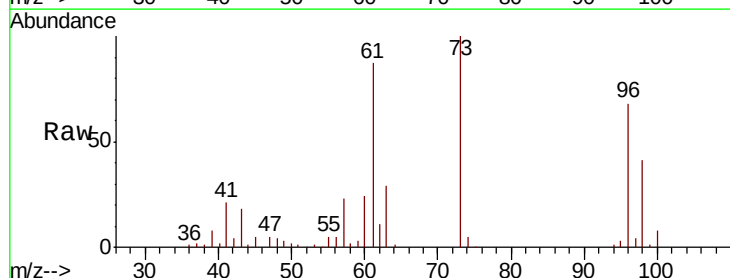
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



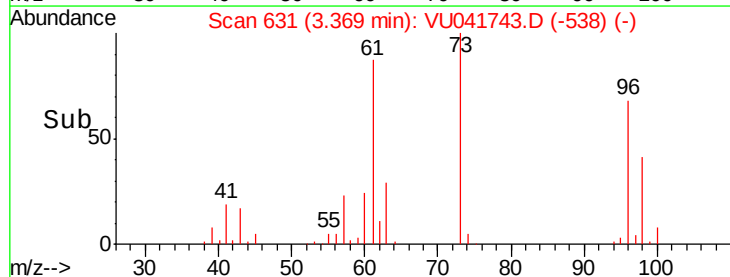
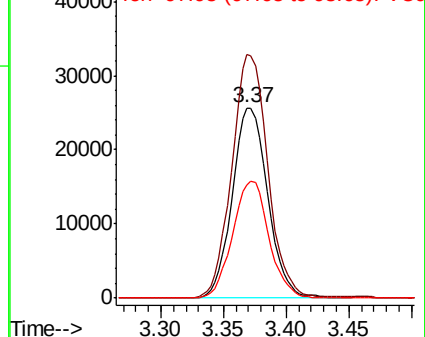
#18

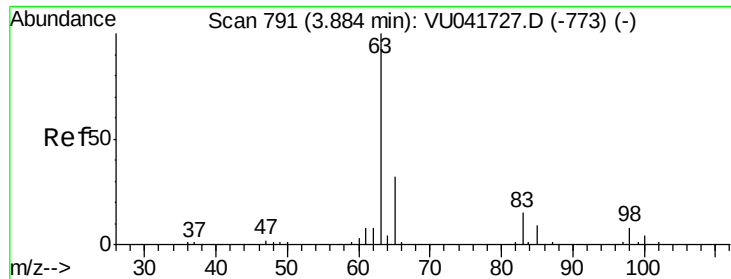
trans-1,2-Dichloroethene
 Concen: 5.306 ug/L
 RT: 3.37 min Scan# 631
 Delta R.T. -0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Tgt Ion: 96 Resp: 50562
 Ion Ratio Lower Upper
 96 100
 61 127.8 101.8 189.0
 98 59.6 44.4 82.5



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

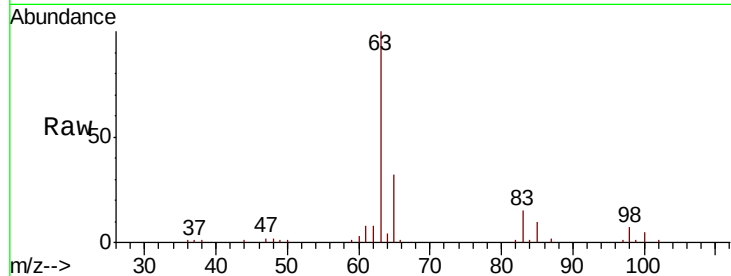




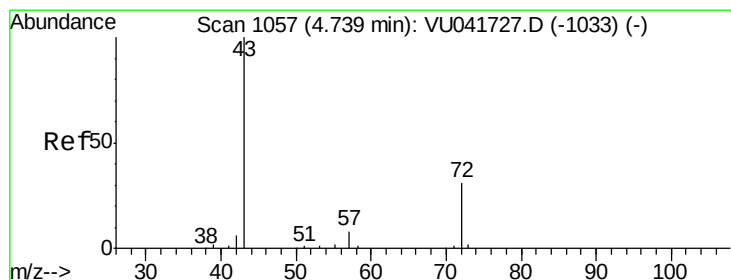
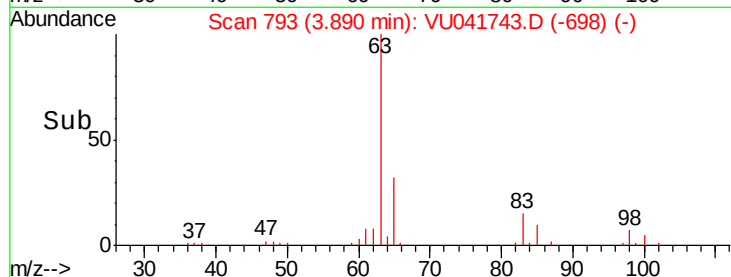
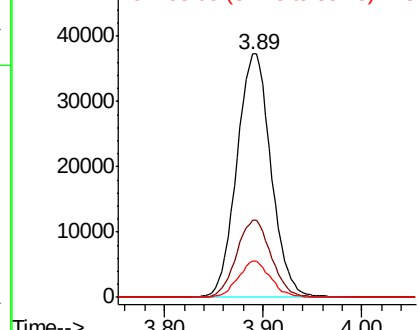
#19
 1,1-Dichloroethane
 Concen: 5.051 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.01 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion: 63 Resp: 89950
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.3 39.6
 83 14.9 9.3 17.3

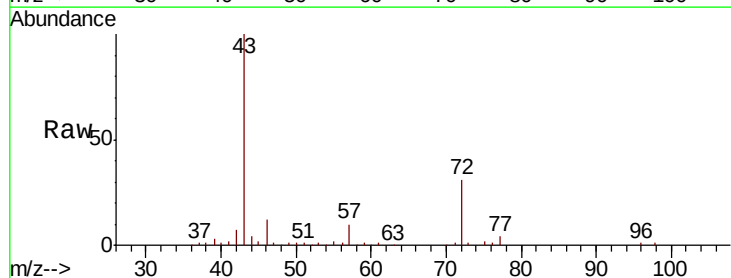


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

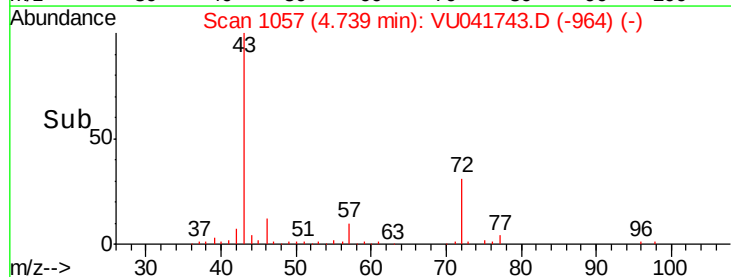
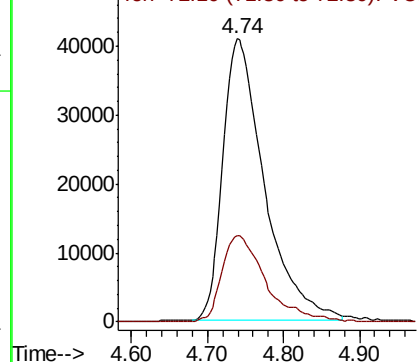


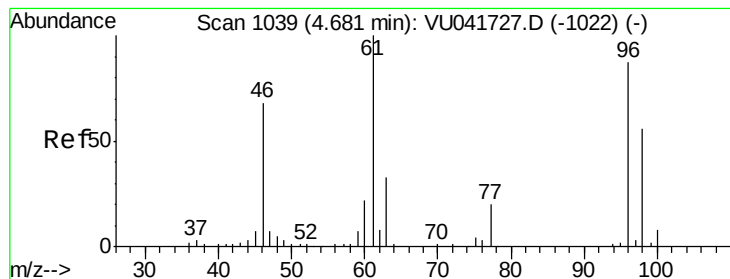
#21
 2-Butanone
 Concen: 49.221 ug/L
 RT: 4.74 min Scan# 1057
 Delta R.T. -0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Tgt Ion: 43 Resp: 155521
 Ion Ratio Lower Upper
 43 100
 72 31.7 14.6 44.0



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: 5.176 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

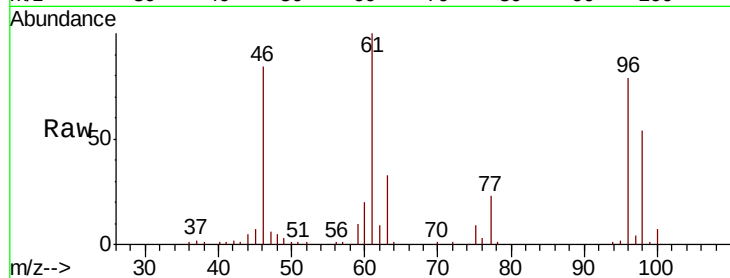
Tot Ion: 96 Resp: 54506

Ion Ratio Lower Upper

96 100

61 126.5 88.8 165.0

68 0.0 0.0 0.0

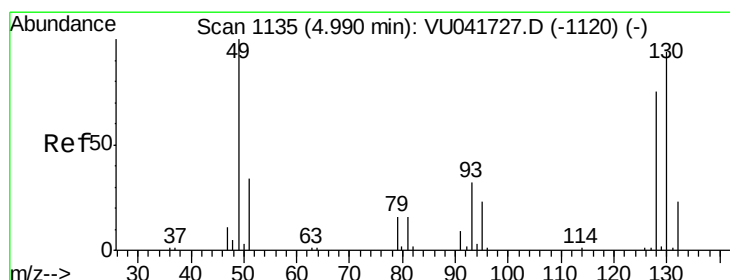
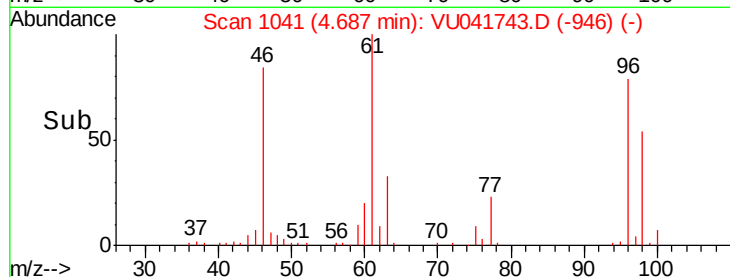
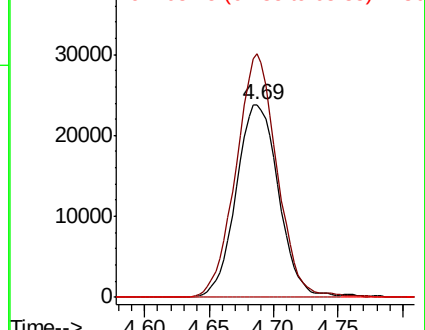


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.588 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Tgt Ion: 128 Resp: 27035

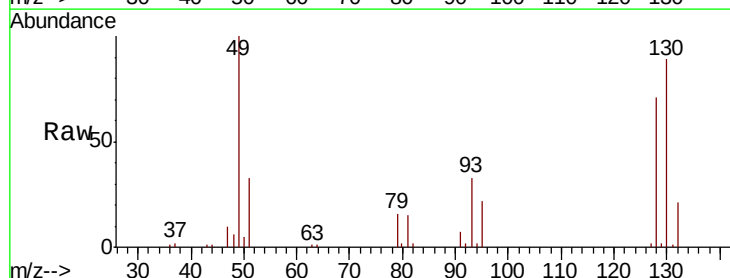
Ion Ratio Lower Upper

128 100

49 141.8 109.3 203.1

130 126.7 84.8 157.6

51 46.7 40.6 61.0



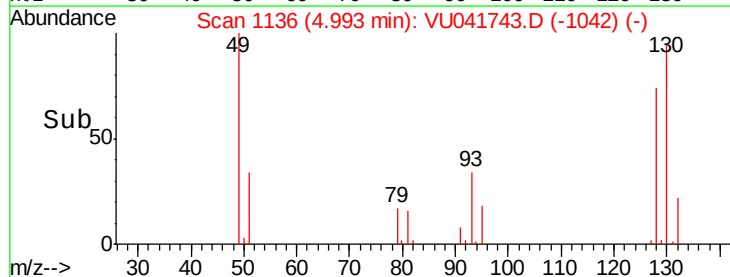
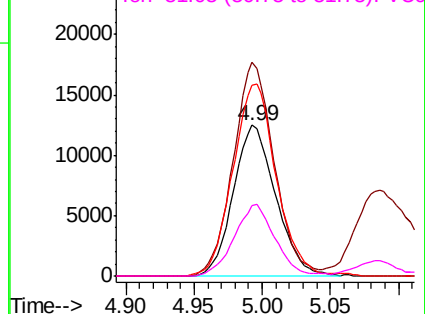
Abundance

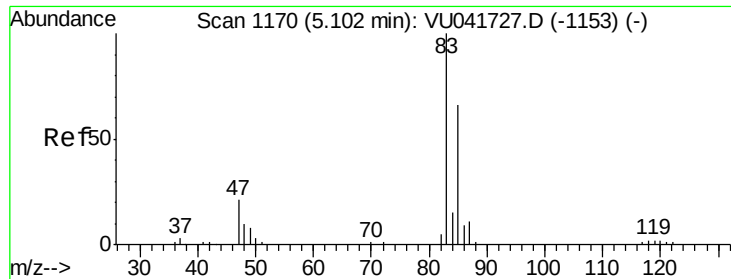
Ion 127.90 (127.60 to 128.60): V

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

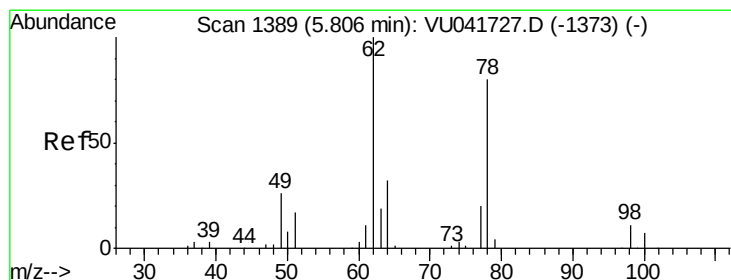
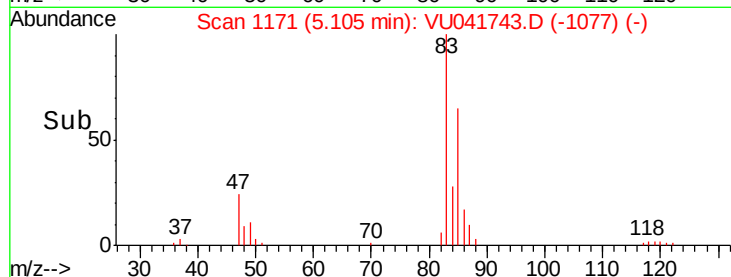
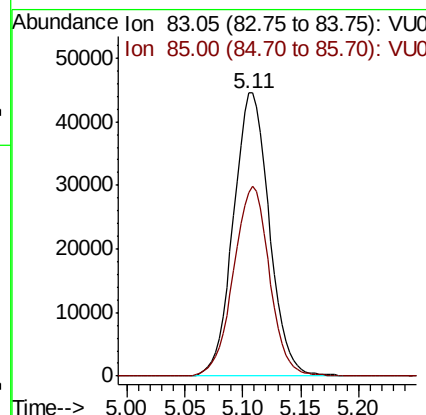
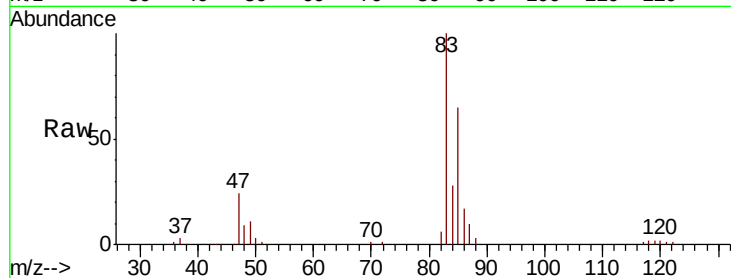




#25
Chloroform
Concen: 5.334 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

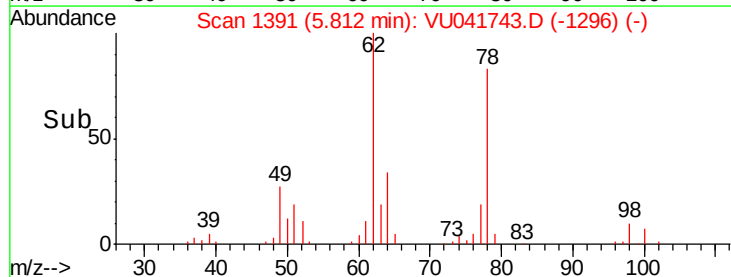
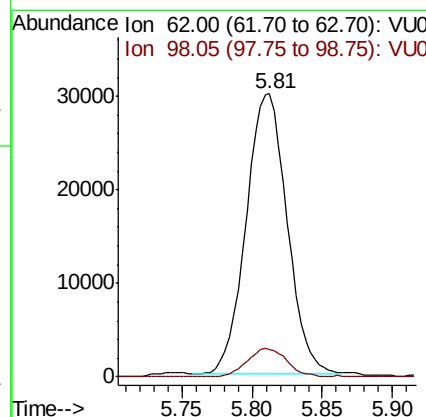
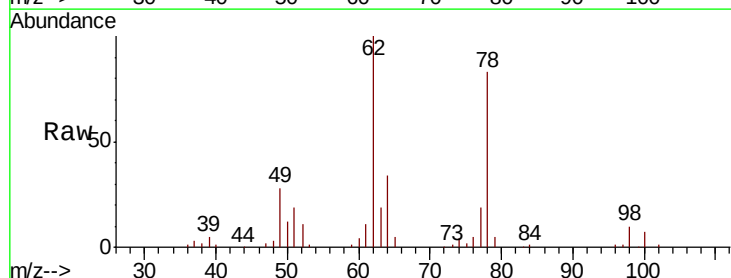
Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

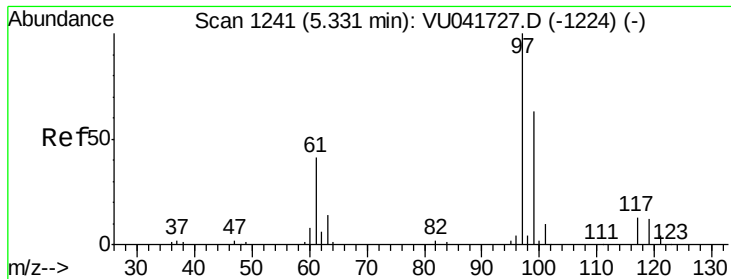
Tot Ion: 83 Resp: 95657
Ion Ratio Lower Upper
83 100
85 65.0 44.2 82.0



#27
1,2-Dichloroethane
Concen: 5.042 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.01 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

Tgt Ion: 62 Resp: 61233
Ion Ratio Lower Upper
62 100
98 9.7 8.2 12.2

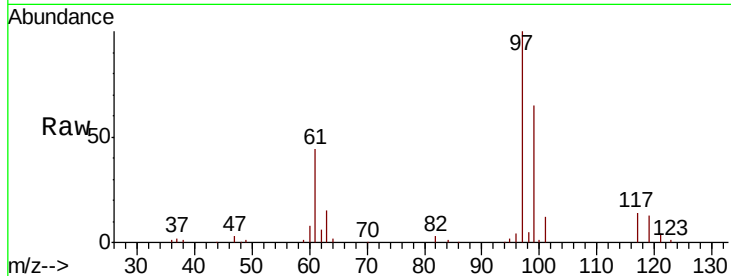




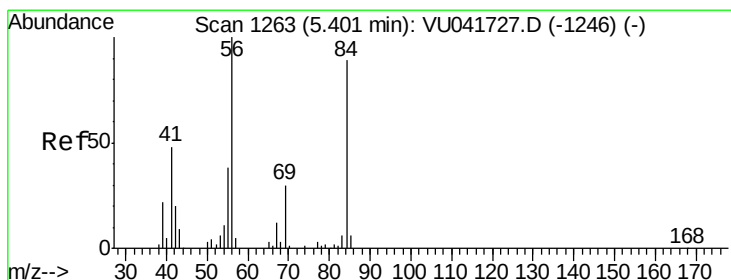
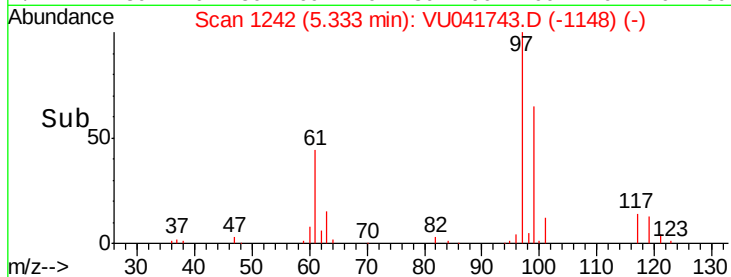
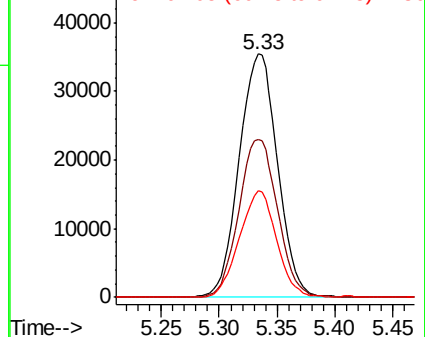
#29
 1,1,1-Trichloroethane
 Concen: 5.445 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion: 97 Resp: 81499
 Ion Ratio Lower Upper
 97 100
 99 65.5 51.3 76.9
 61 42.4 36.5 54.7

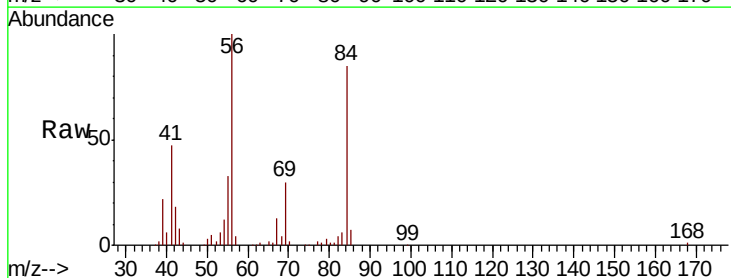


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

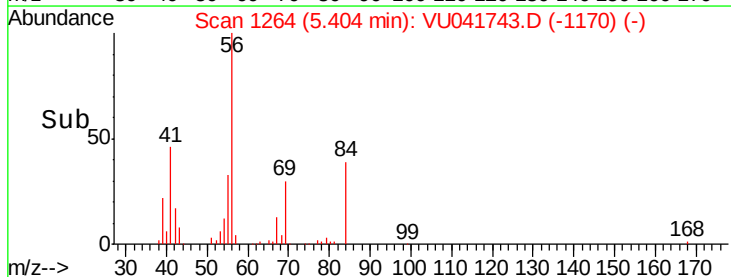
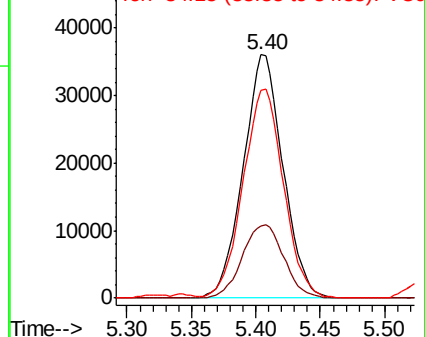


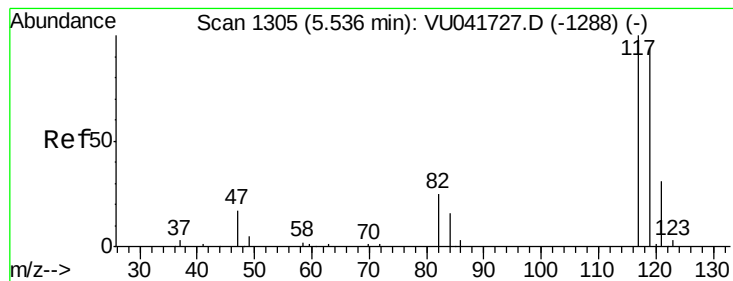
#30
 Cyclohexane
 Concen: 4.610 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Tgt Ion: 56 Resp: 77334
 Ion Ratio Lower Upper
 56 100
 69 31.6 23.8 35.8
 84 87.5 66.2 99.4



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: 5.452 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.01 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

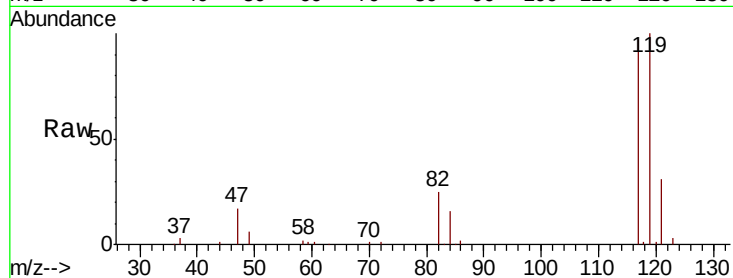
VSTD00525

Tot Ion:117 Resp: 70567

Ion Ratio Lower Upper

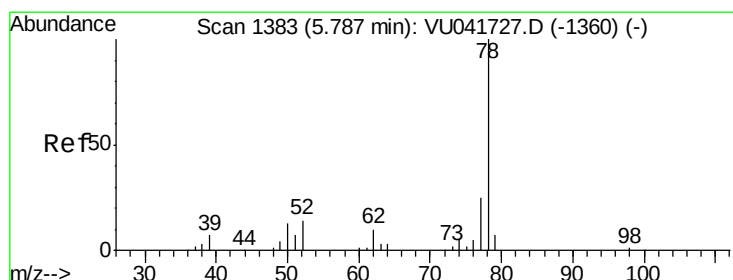
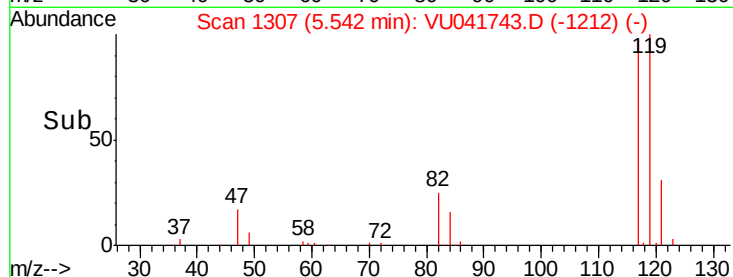
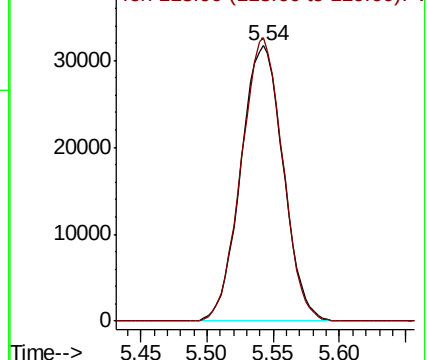
117 100

119 100.4 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.100 ug/L

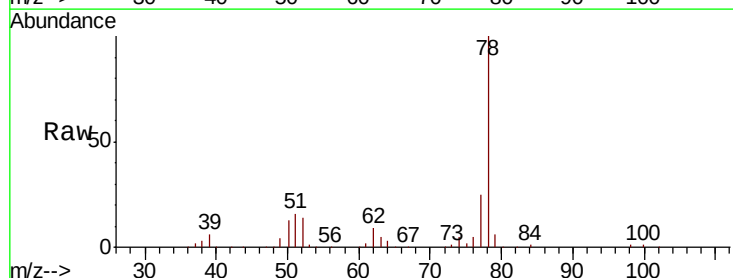
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

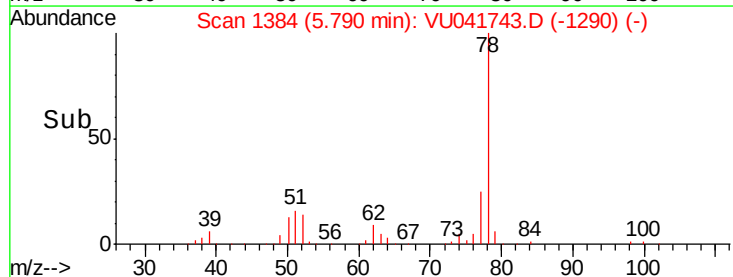
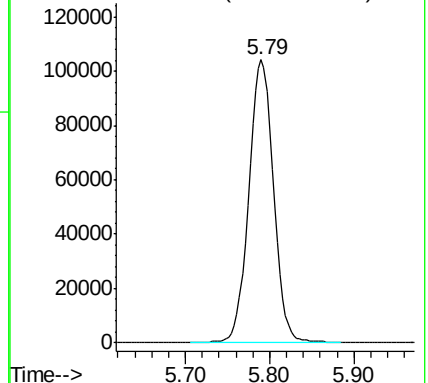
Lab File: VU041743.D

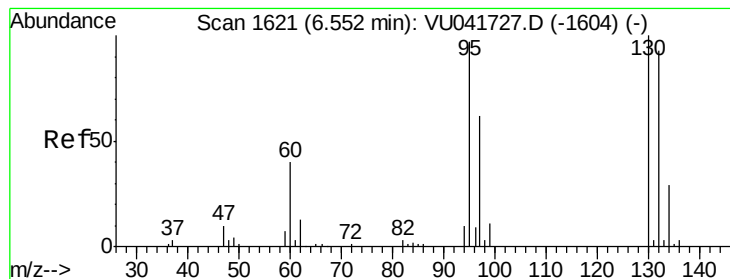
Acq: 22 Dec 2020 15:48

Tgt Ion: 78 Resp: 212581



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.236 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

Tot Ion: 95 Resp: 54843

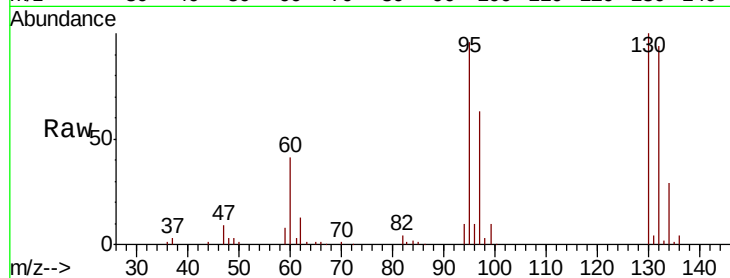
Ion Ratio Lower Upper

95 100

97 65.8 43.9 81.5

132 97.9 63.1 117.3

130 104.2 67.4 125.2

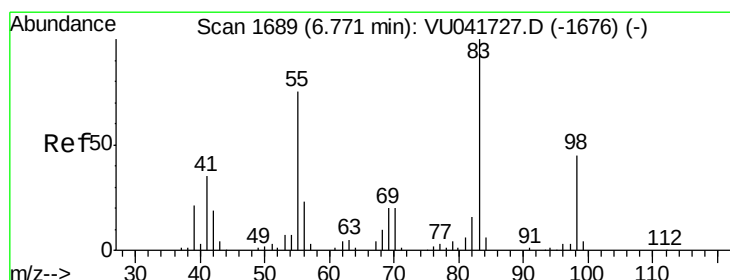
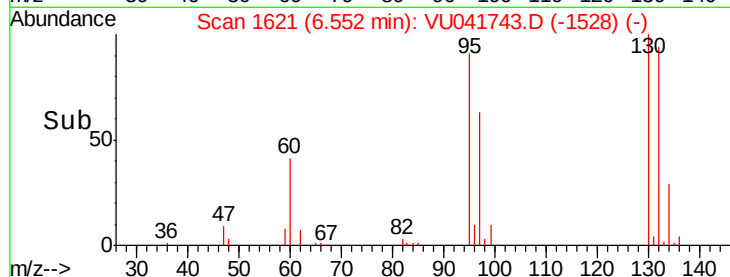
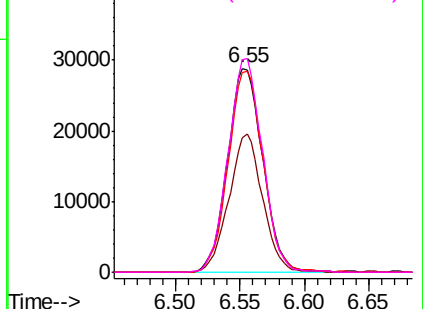


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.789 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

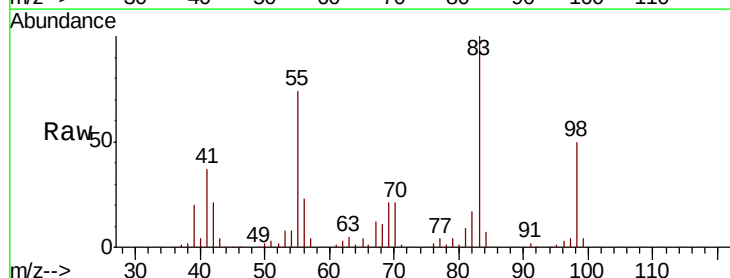
Tgt Ion: 83 Resp: 81081

Ion Ratio Lower Upper

83 100

55 74.0 61.2 91.8

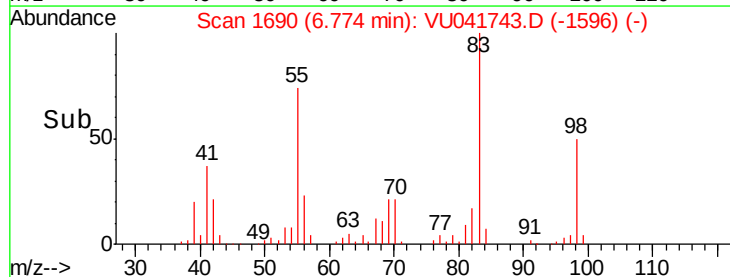
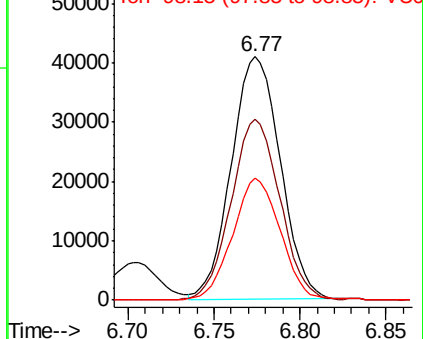
98 49.1 36.6 54.8

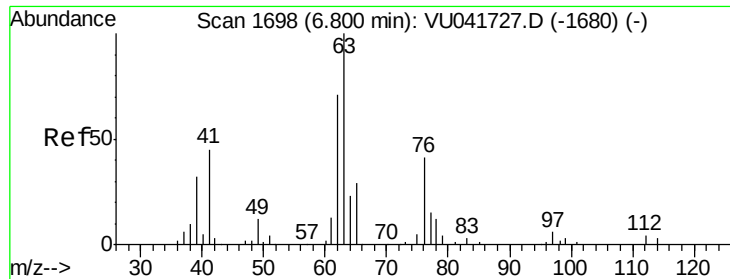


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

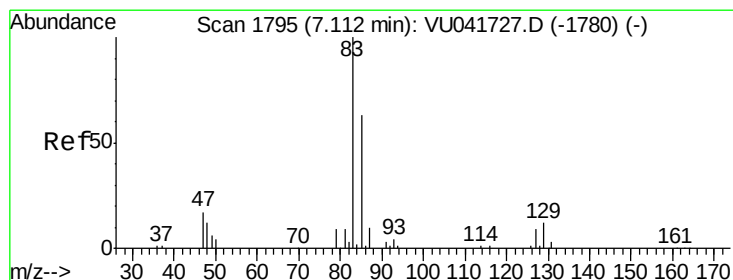
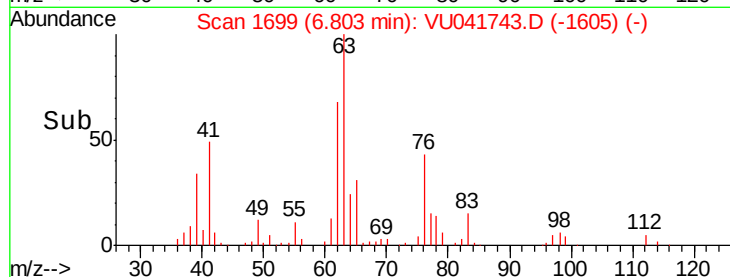
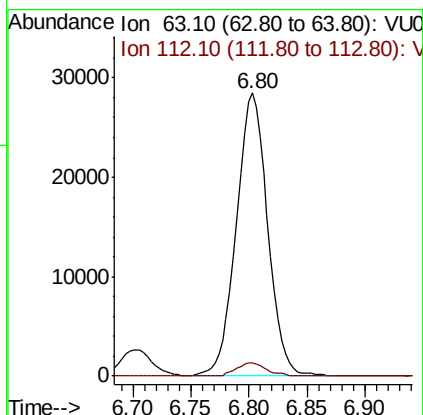
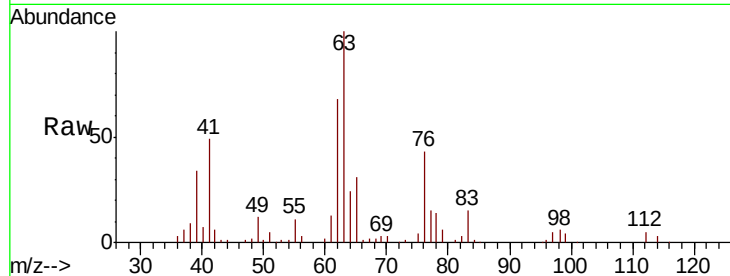




#37
 1,2-Dichloropropane
 Concen: 5.024 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

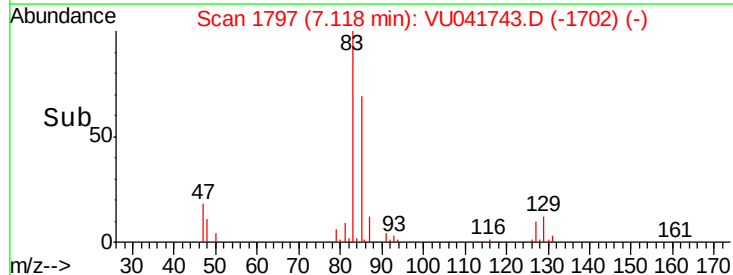
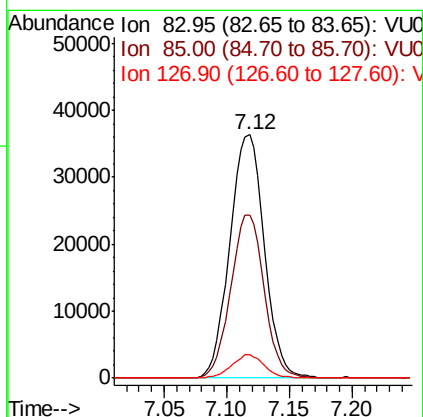
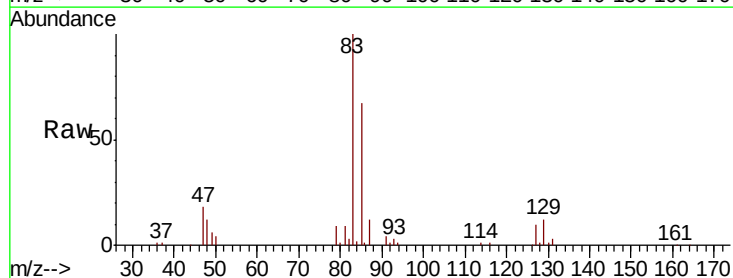
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

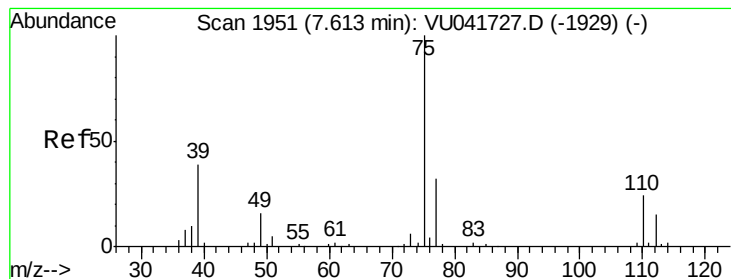
Tot Ion: 63 Resp: 53568
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.1 4.7



#38
 Bromodichloromethane
 Concen: 5.247 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. 0.01 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Tgt Ion: 83 Resp: 69599
 Ion Ratio Lower Upper
 83 100
 85 67.0 45.5 84.5
 127 9.5 7.0 10.6



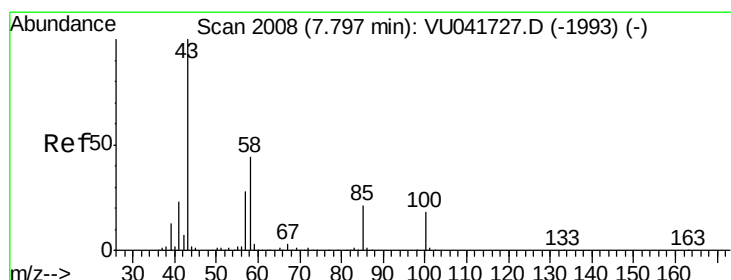
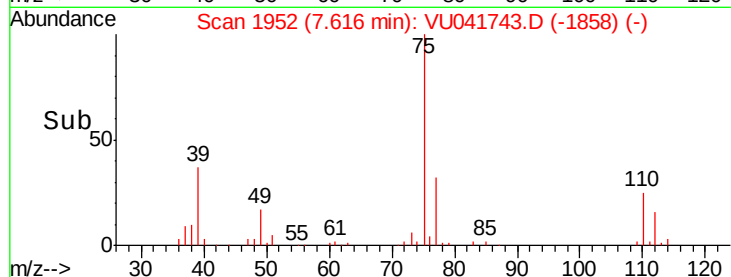
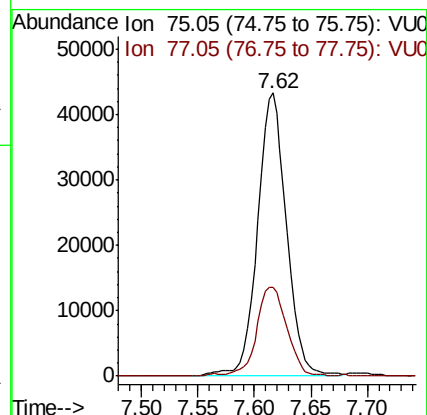
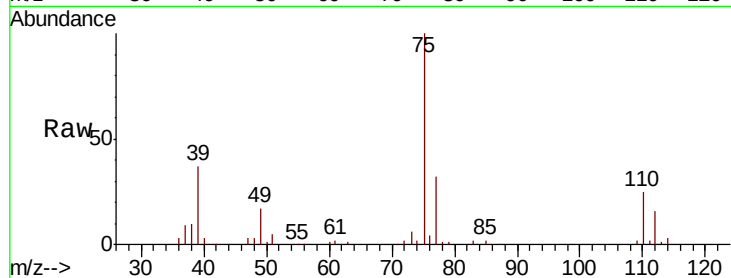


#39

cis-1,3-Dichloropropene
 Concen: 4.871 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

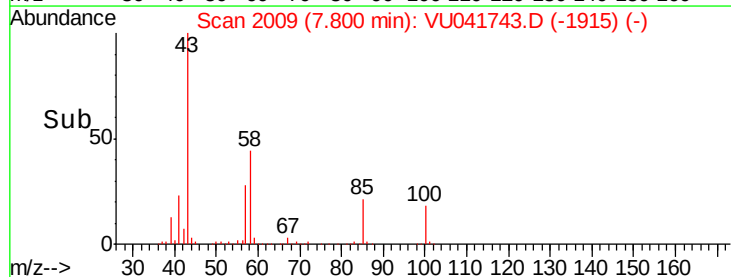
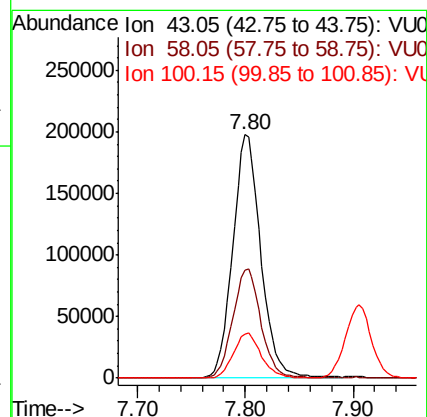
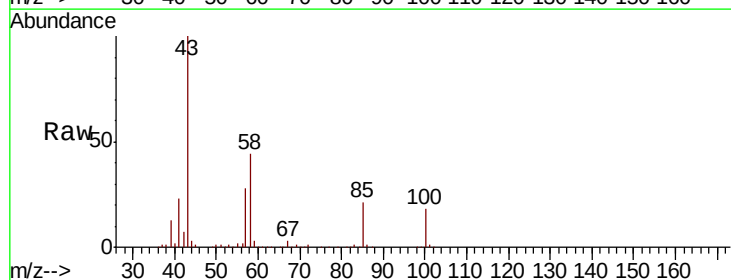
Tot Ion: 75 Resp: 76953
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.3 41.3

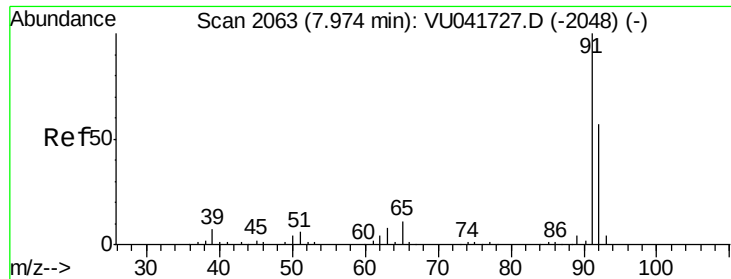


#40

4-Methyl-2-pentanone
 Concen: 47.197 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Tgt Ion: 43 Resp: 358076
 Ion Ratio Lower Upper
 43 100
 58 44.9 34.2 51.2
 100 18.3 12.3 18.5





#42

Toluene

Concen: 5.227 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampled :

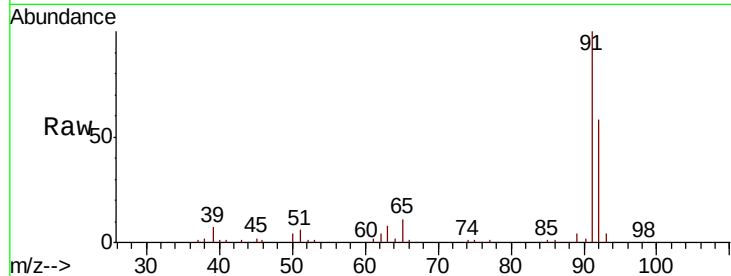
VSTD00525

Tot Ion: 91 Resp: 224927

Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU041727.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU041727.D (-2048) (-)

7.98

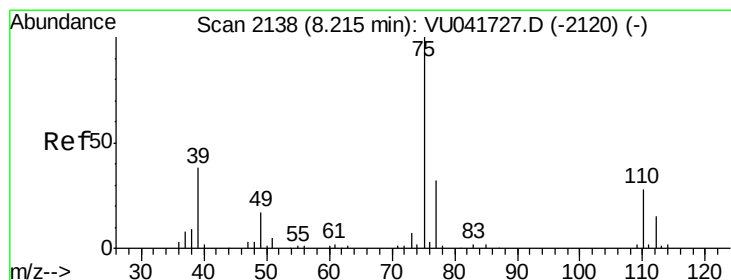
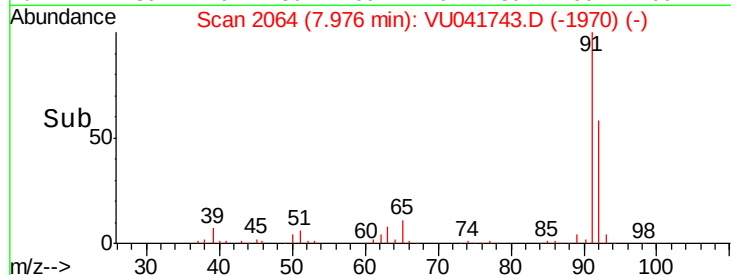
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.101 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU041743.D

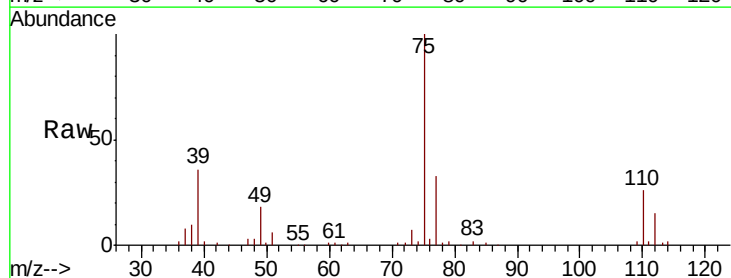
Acq: 22 Dec 2020 15:48

Tgt Ion: 75 Resp: 72070

Ion Ratio Lower Upper

75 100

77 32.9 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU041727.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU041727.D (-2120) (-)

8.22

50000

40000

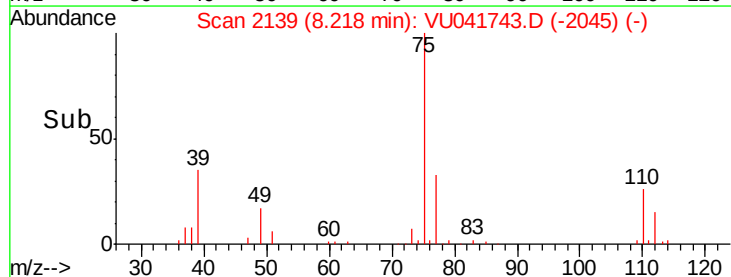
30000

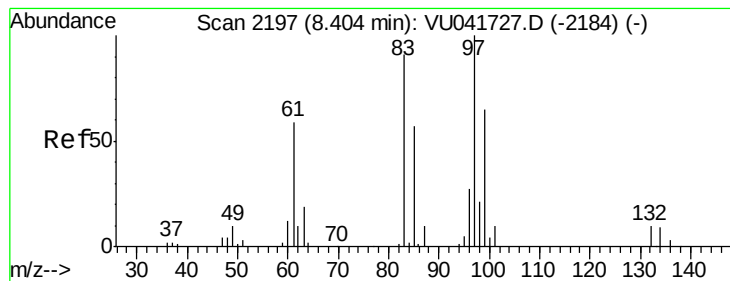
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.505 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

Tot Ion: 97 Resp: 43404

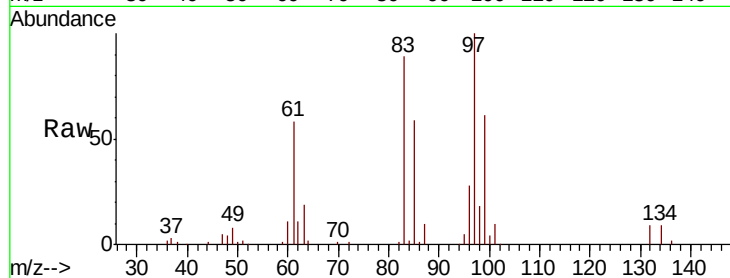
Ion Ratio Lower Upper

97 100

99 61.5 42.1 78.3

83 88.9 62.6 116.2

85 58.5 39.1 72.7



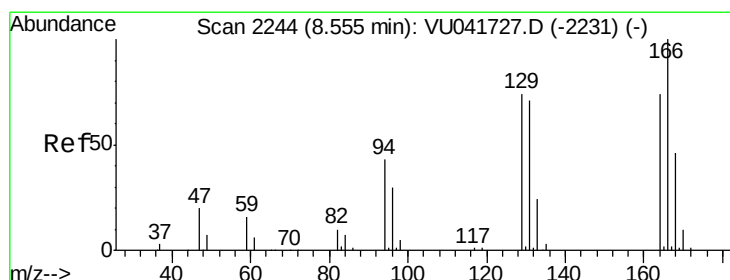
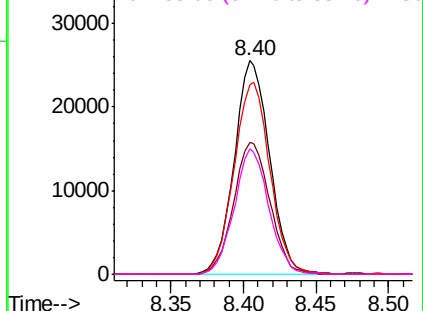
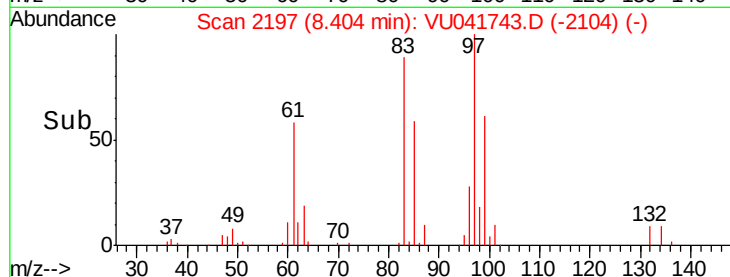
Abundance

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: 5.736 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Tgt Ion:164 Resp: 42057

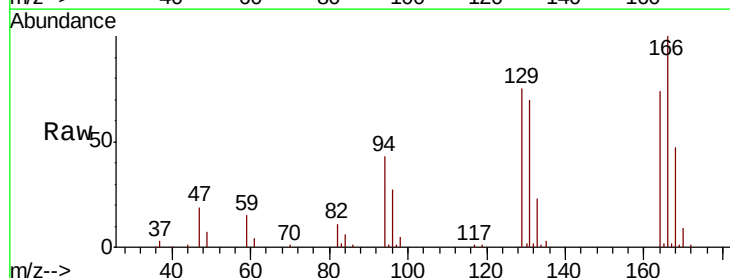
Ion Ratio Lower Upper

164 100

129 102.2 72.2 134.0

131 94.4 66.9 124.3

166 135.5 89.6 166.4



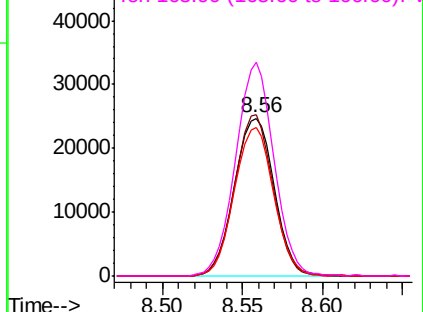
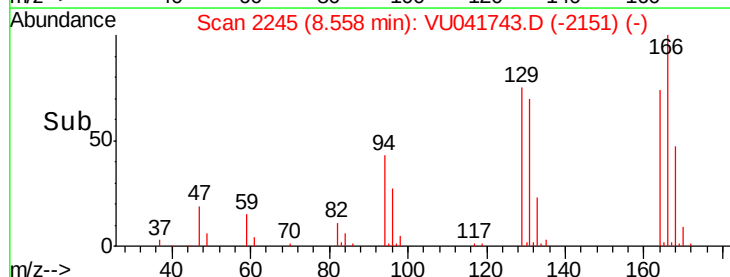
Abundance

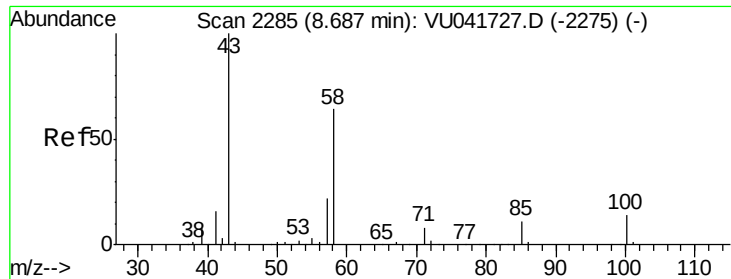
Ion 163.90 (163.60 to 164.60): V

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

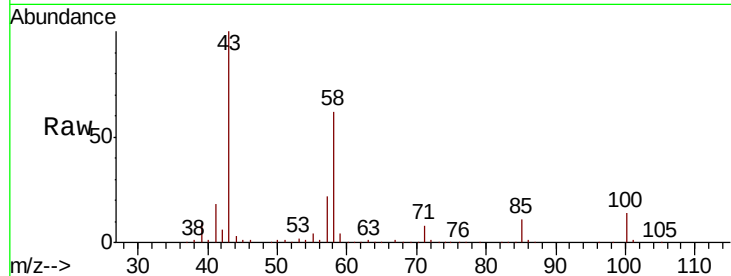




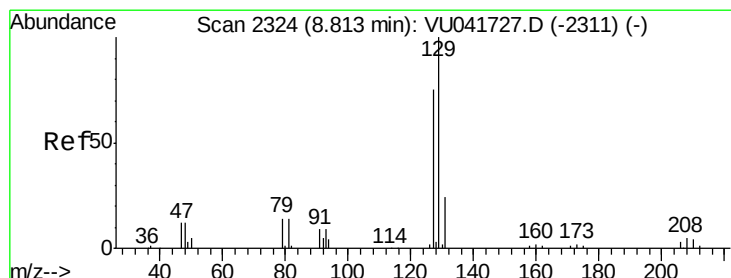
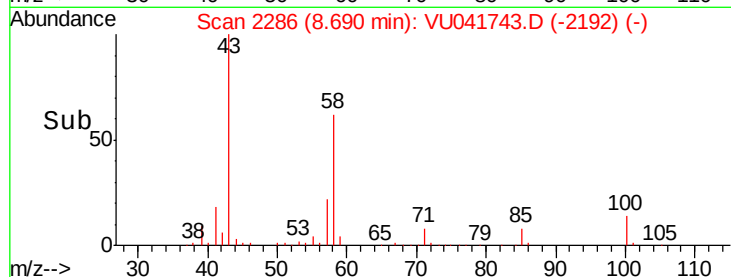
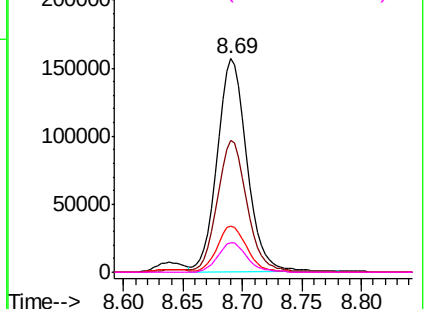
#48
2-Hexanone
Concen: 49.207 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

Tot Ion:	43	Resp:	271698
Ion	Ratio	Lower	Upper
43	100		
58	61.1	47.9	71.9
57	21.5	16.5	24.7
100	13.8	9.4	14.2

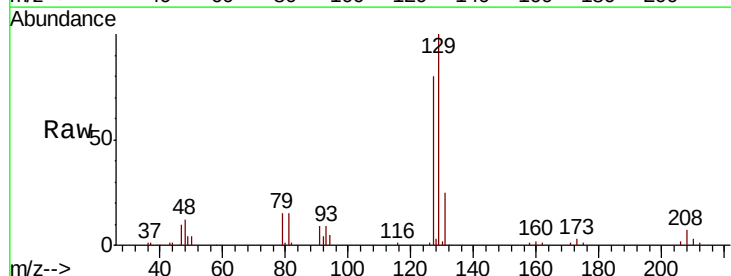


Abundance Ion 43.05 (42.75 to 43.75): VU041727.D (-2275) (-)
Ion 58.05 (57.75 to 58.75): VU041727.D (-2275) (-)
Ion 57.20 (56.90 to 57.90): VU041727.D (-2275) (-)
Ion 100.15 (99.85 to 100.85): VU041727.D (-2275) (-)

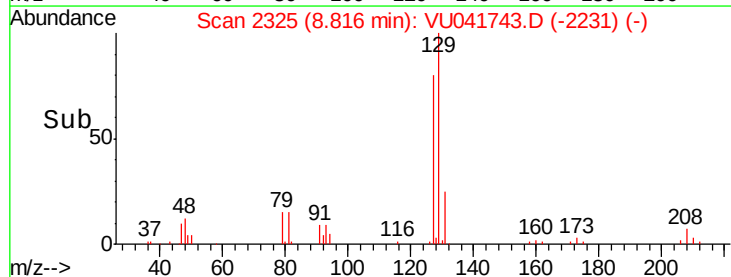
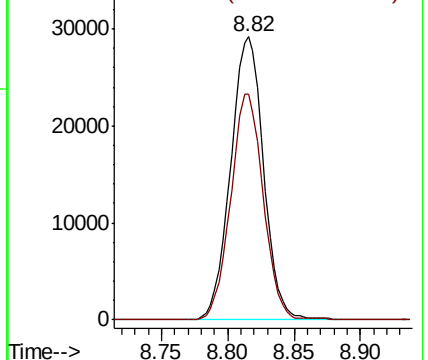


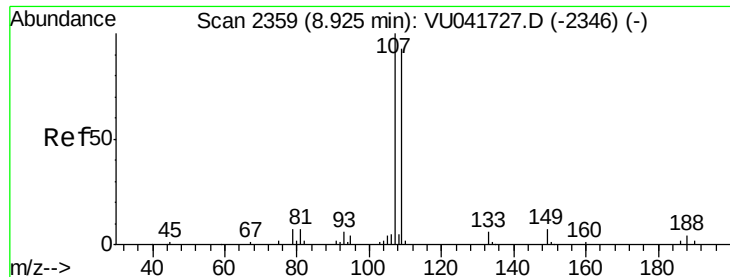
#49
Dibromochloromethane
Concen: 5.557 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

Tgt Ion:	129	Resp:	50333
Ion	Ratio	Lower	Upper
129	100		
127	79.7	54.7	101.7



Abundance Ion 128.95 (128.65 to 129.65): VU041727.D (-2311) (-)
Ion 126.90 (126.60 to 127.60): VU041727.D (-2311) (-)

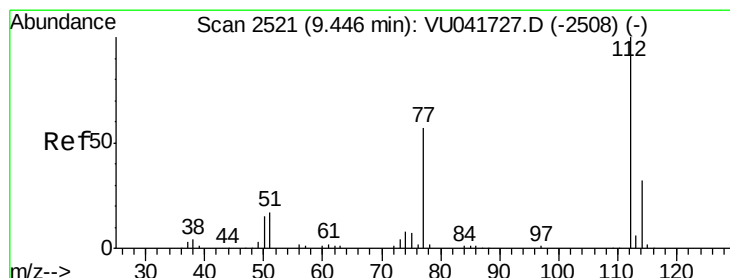
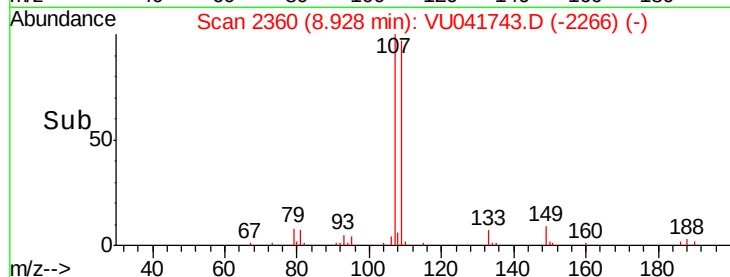
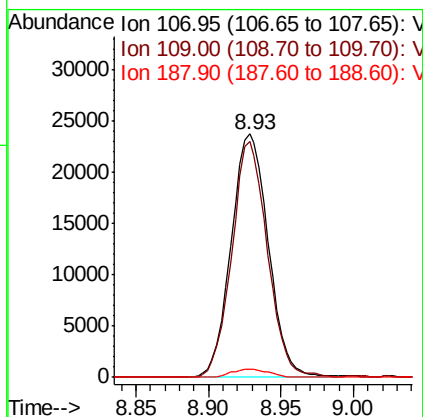
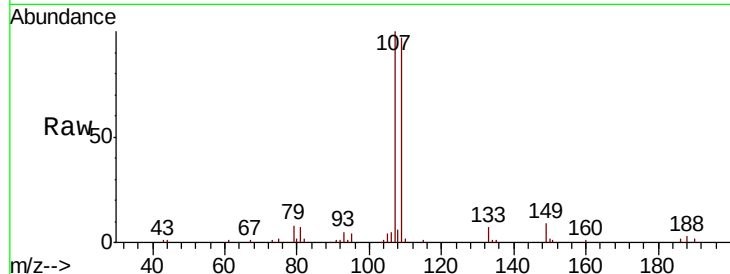




#50
1,2-Dibromoethane
Concen: 5.428 ug/L
RT: 8.93 min Scan# 2360
Delta R.T. 0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

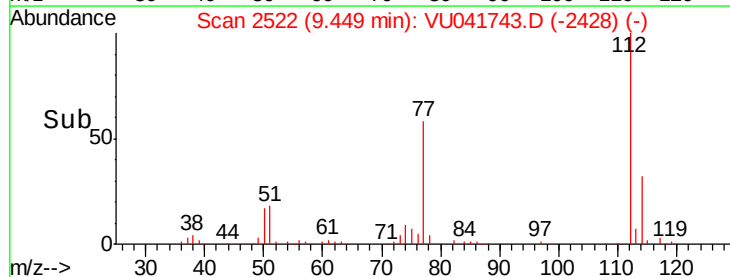
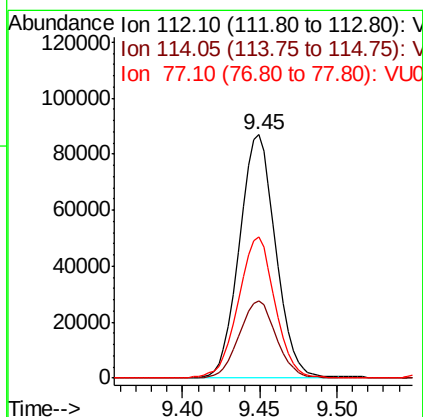
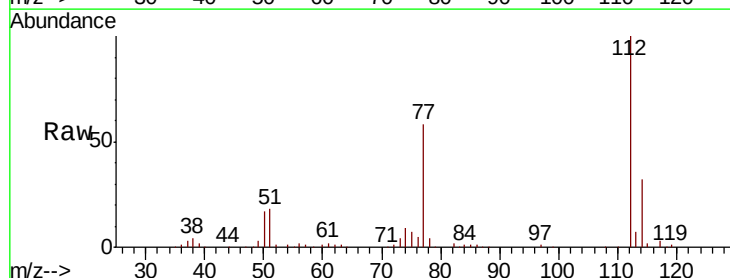
Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

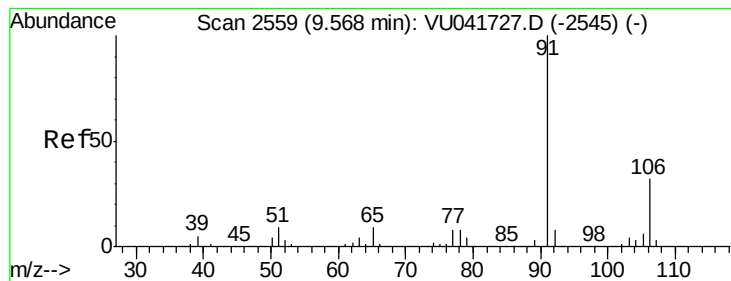
Tot Ion:107 Resp: 42339
Ion Ratio Lower Upper
107 100
109 97.1 65.6 121.8
188 3.4 2.6 4.0



#51
Chlorobenzene
Concen: 5.313 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

Tgt Ion:112 Resp: 142131
Ion Ratio Lower Upper
112 100
114 31.6 22.7 42.3
77 58.0 49.1 73.7





#52

Ethylbenzene

Concen: 5.028 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

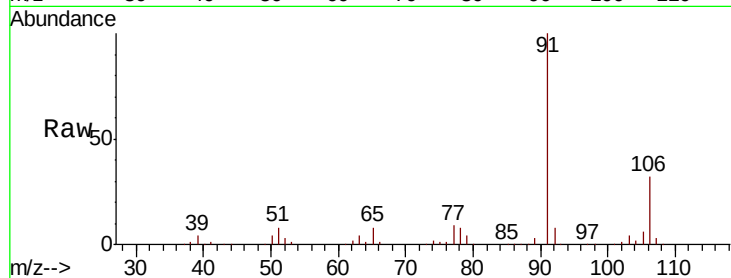
VSTD00525

Tot Ion: 91 Resp: 230401

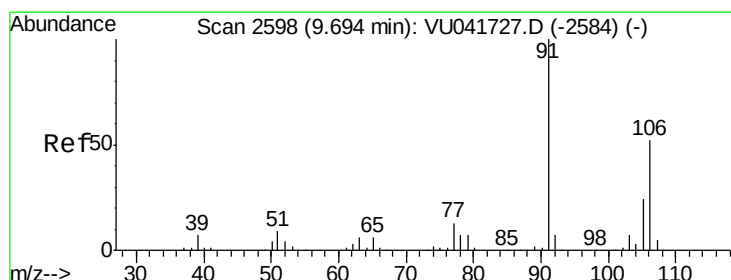
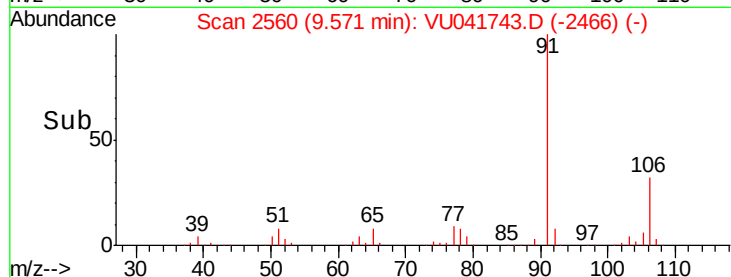
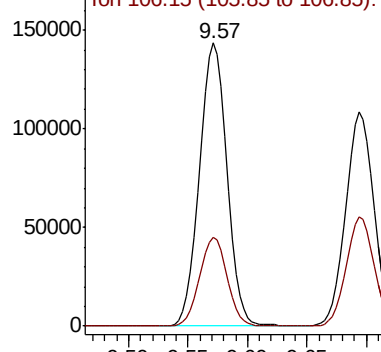
Ion Ratio Lower Upper

91 100

106 31.5 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU041727.D (-2545) (-)



#53

m,p-Xylene

Concen: 5.291 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU041743.D

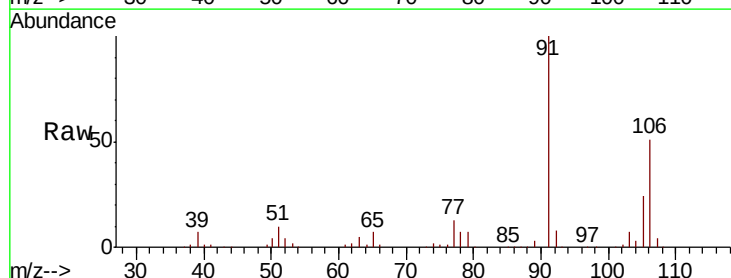
Acq: 22 Dec 2020 15:48

Tgt Ion: 106 Resp: 90423

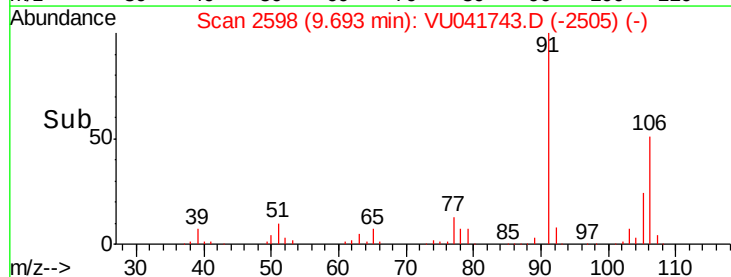
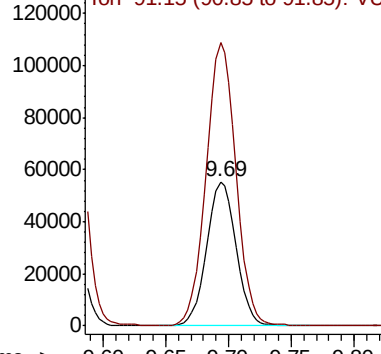
Ion Ratio Lower Upper

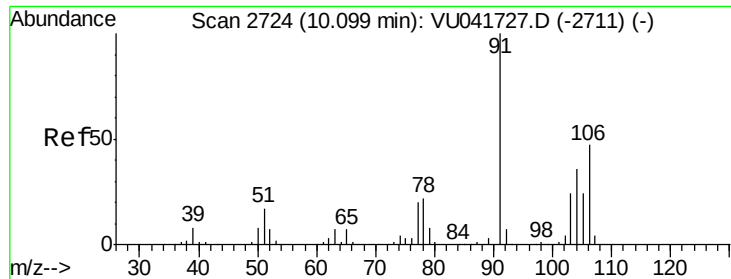
106 100

91 196.1 140.4 260.8



Abundance Ion 106.15 (105.85 to 106.85): VU041727.D (-2584) (-)

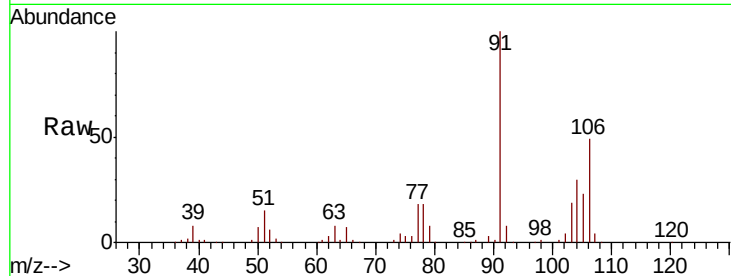




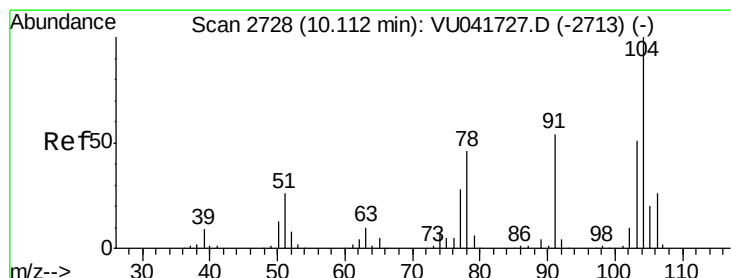
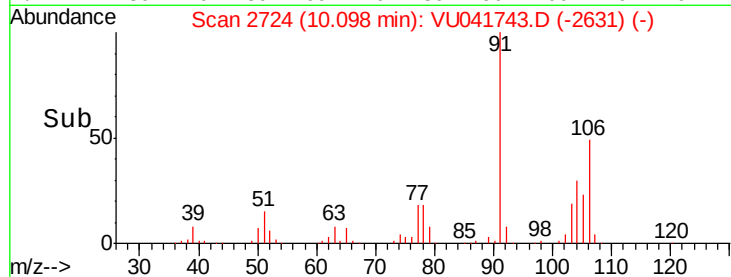
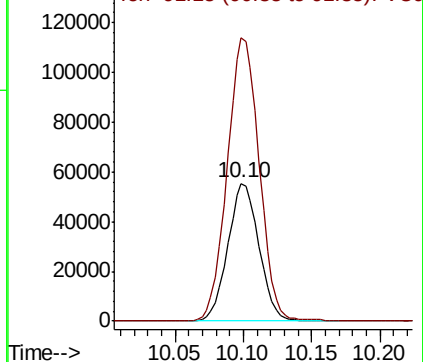
#54
o-Xylene
Concen: 5.229 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

Tot Ion:106 Resp: 87528
Ion Ratio Lower Upper
106 100
91 205.9 151.3 281.1

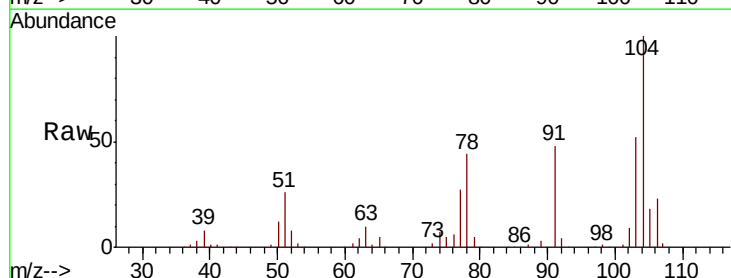


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

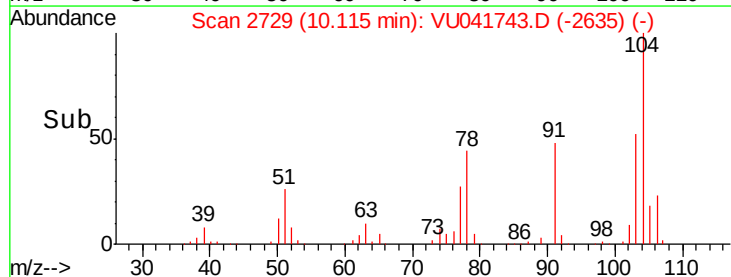
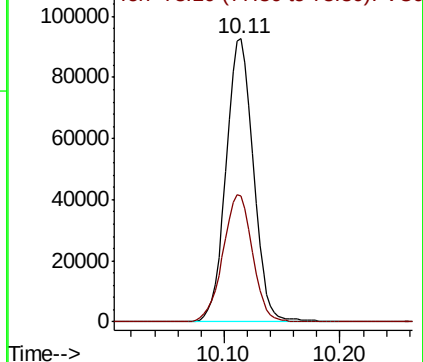


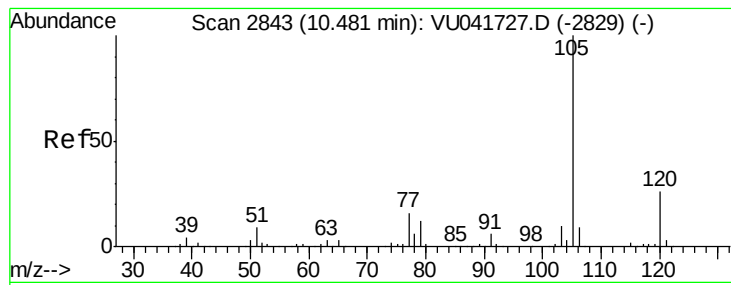
#55
Styrene
Concen: 5.211 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU041743.D
Acq: 22 Dec 2020 15:48

Tgt Ion:104 Resp: 150699
Ion Ratio Lower Upper
104 100
78 44.4 31.1 57.9



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





#56

Isopropylbenzene

Concen: 5.179 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

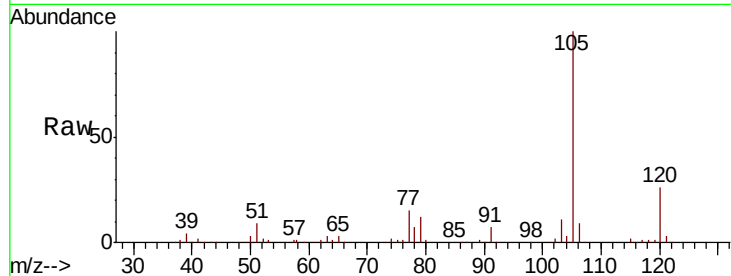
Tot Ion:105 Resp: 230776

Ion Ratio Lower Upper

105 100

120 26.4 20.5 30.7

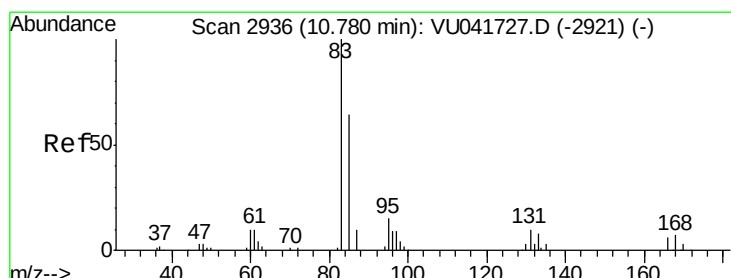
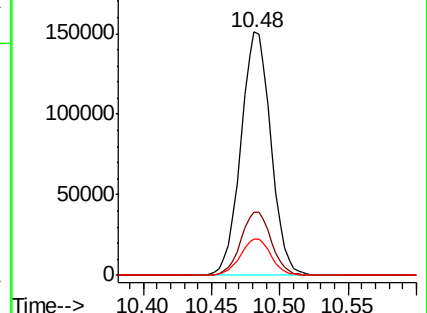
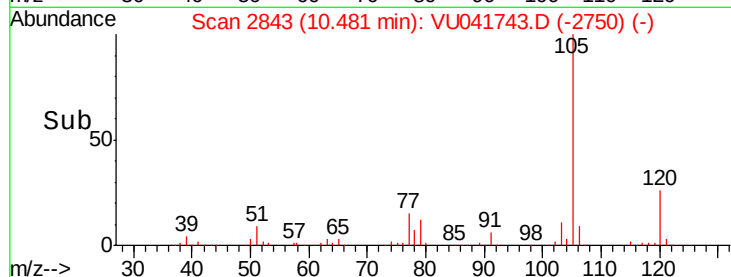
77 15.2 12.7 19.1



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: 5.229 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

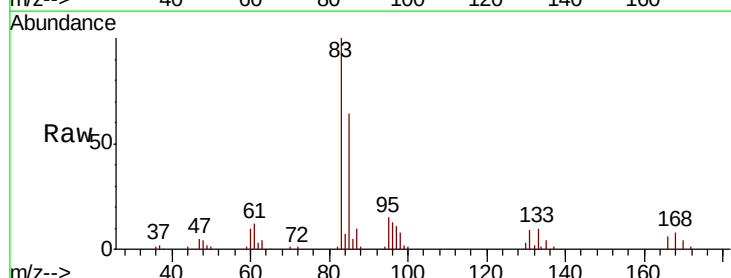
Tgt Ion: 83 Resp: 57375

Ion Ratio Lower Upper

83 100

85 64.3 46.1 85.7

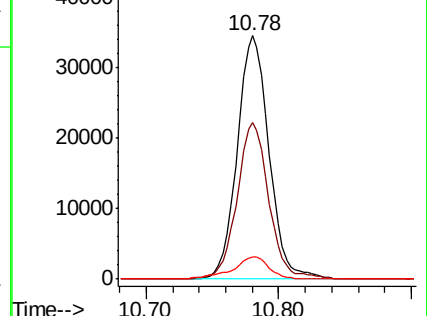
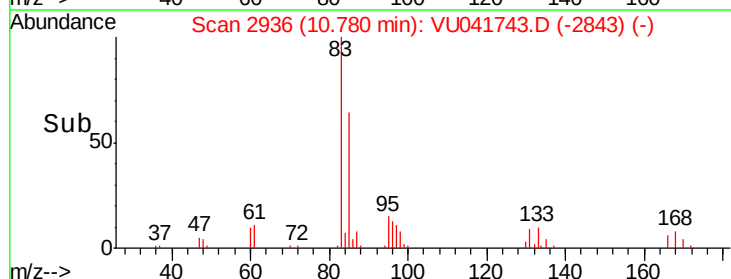
131 9.2 7.8 11.6

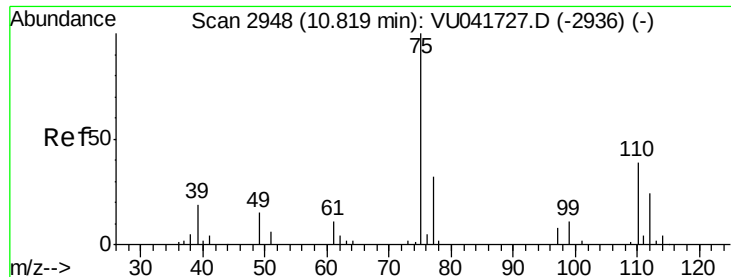


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.228 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

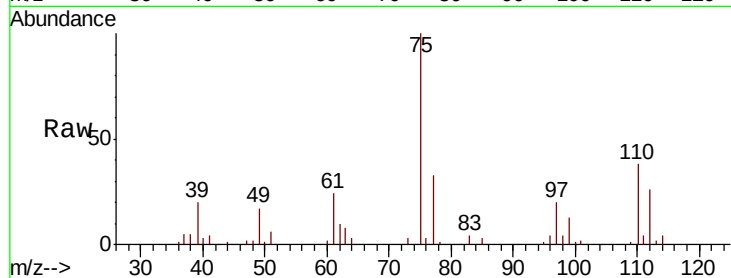
VSTD00525

Tot Ion: 75 Resp: 41862

Ion Ratio Lower Upper

75 100

77 33.2 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU041727.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU041727.D (-2936) (-)

10.82

25000

20000

15000

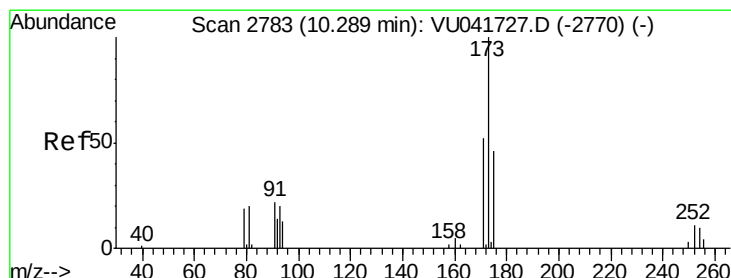
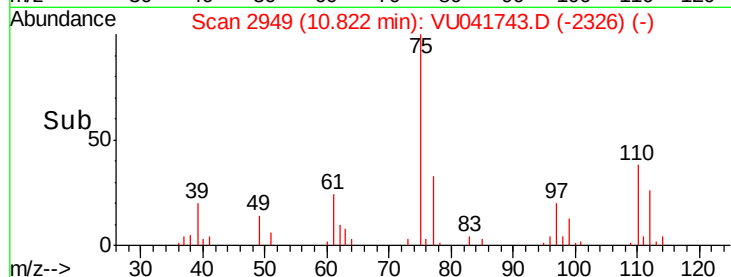
10000

5000

0

Time-->

10.75 10.80 10.85



#61

Bromoform

Concen: 5.809 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

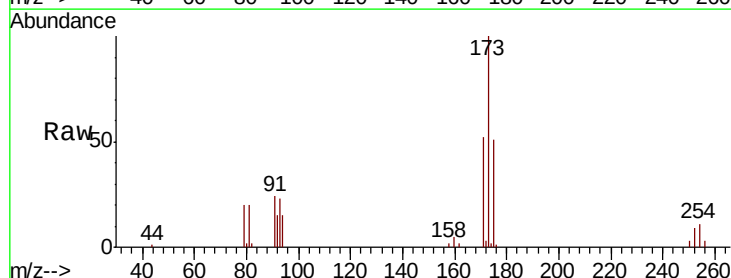
Tgt Ion:173 Resp: 30068

Ion Ratio Lower Upper

173 100

175 50.0 37.3 55.9

254 10.1 7.4 11.2



Abundance Ion 172.90 (172.60 to 173.60): VU041727.D (-2770) (-)

Ion 174.90 (174.60 to 175.60): VU041727.D (-2770) (-)

Ion 253.75 (253.45 to 254.45): VU041727.D (-2770) (-)

10.29

20000

15000

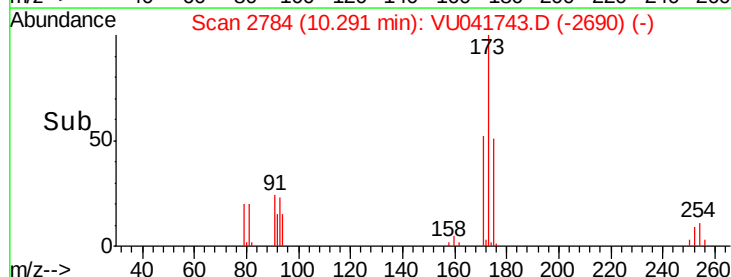
10000

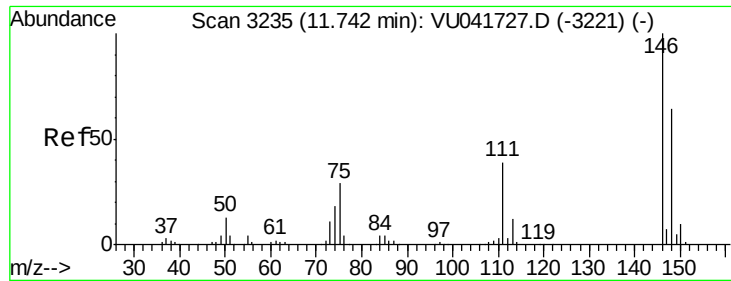
5000

0

Time-->

10.25 10.30 10.35





#62

1,3-Dichlorobenzene

Concen: 5.322 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

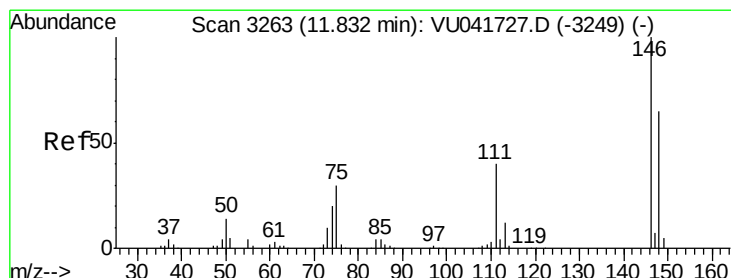
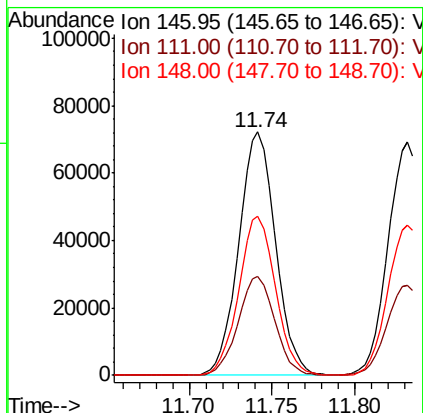
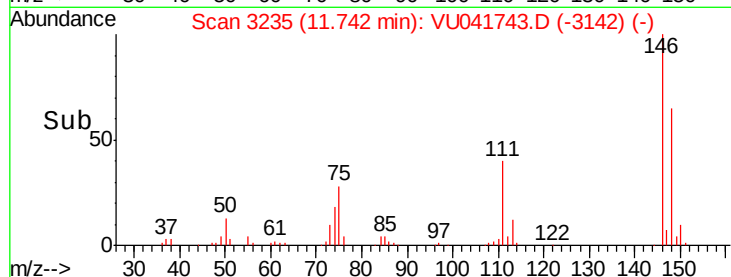
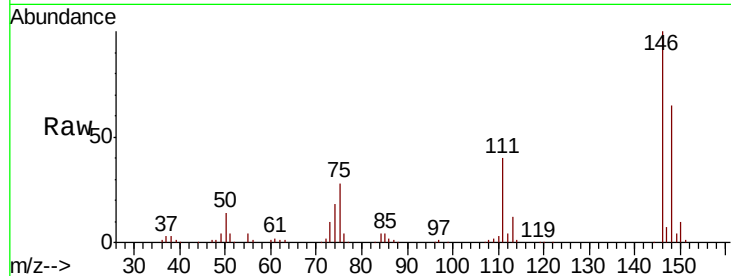
Tot Ion:146 Resp: 111452

Ion Ratio Lower Upper

146 100

111 40.5 30.0 55.8

148 65.2 44.9 83.3



#63

1,4-Dichlorobenzene

Concen: 5.204 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

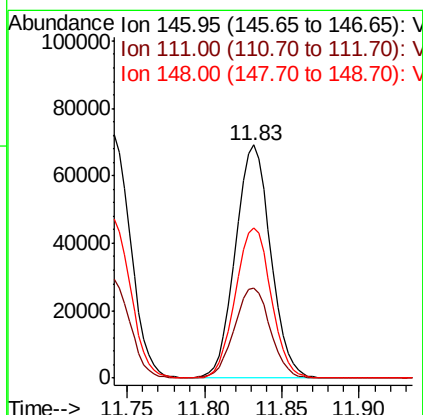
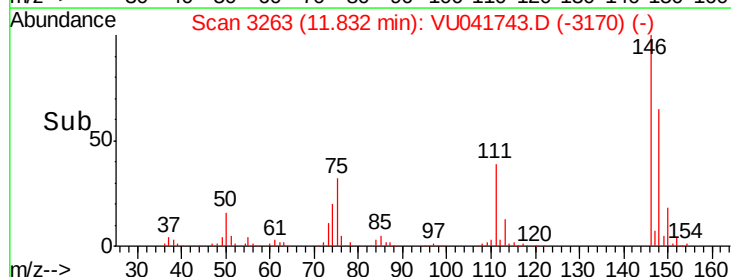
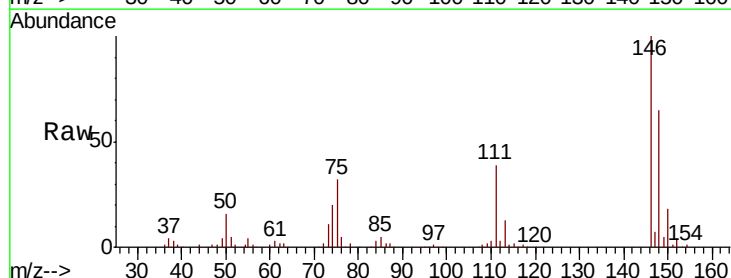
Tgt Ion:146 Resp: 109581

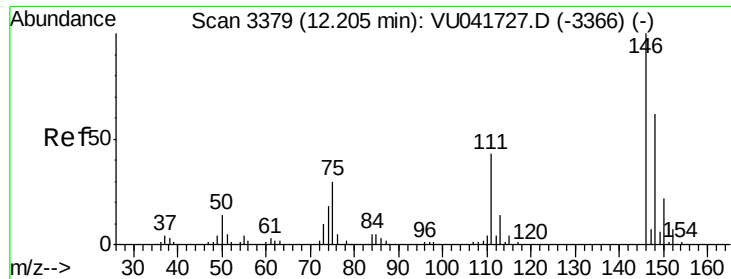
Ion Ratio Lower Upper

146 100

111 38.7 27.9 51.9

148 64.7 45.0 83.6





#65

1,2-Dichlorobenzene

Concen: 5.272 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

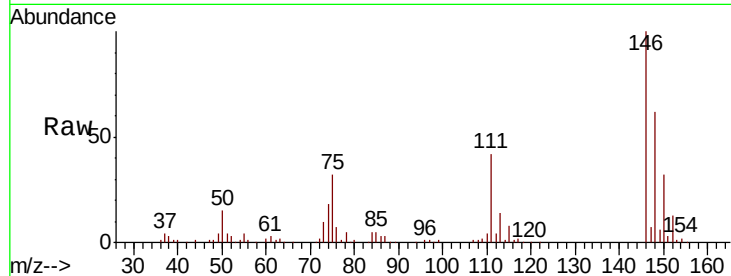
Tot Ion:146 Resp: 108109

Ion Ratio Lower Upper

146 100

111 42.1 35.0 52.6

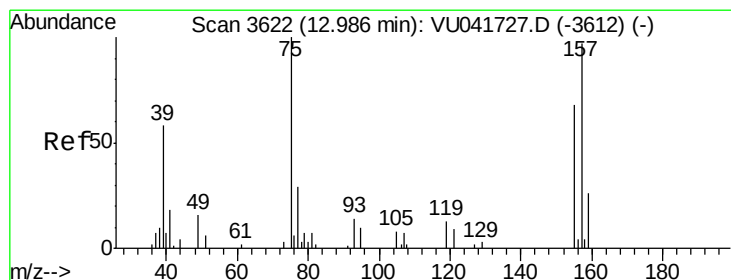
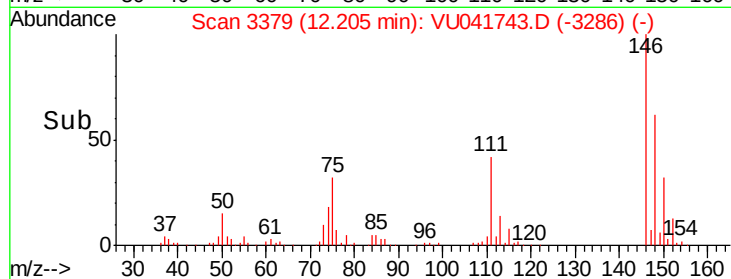
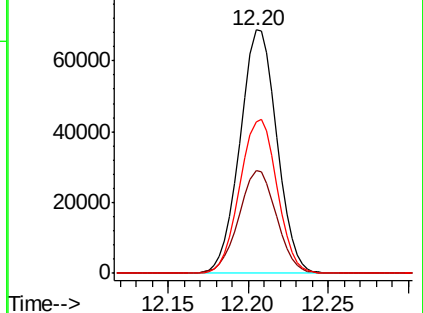
148 62.0 51.0 76.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.040 ug/L

RT: 12.99 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

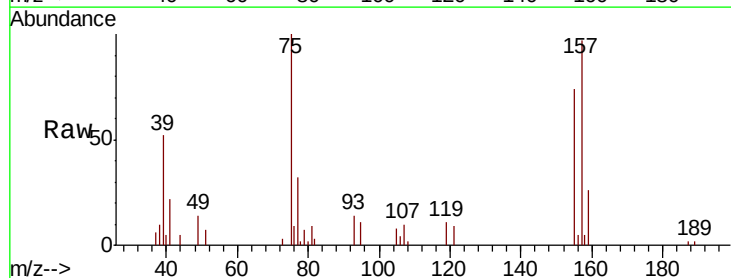
Tgt Ion: 75 Resp: 9693

Ion Ratio Lower Upper

75 100

155 74.1 57.4 86.0

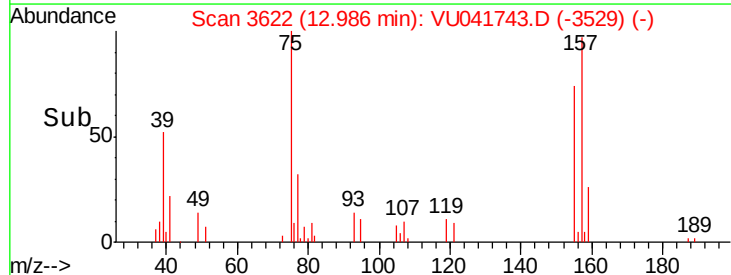
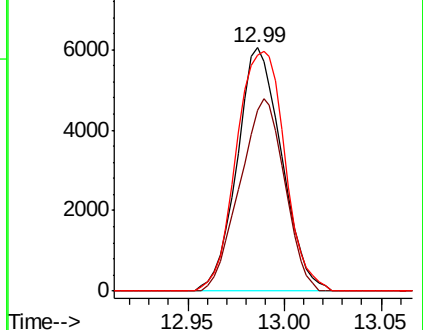
157 97.1 72.4 108.6

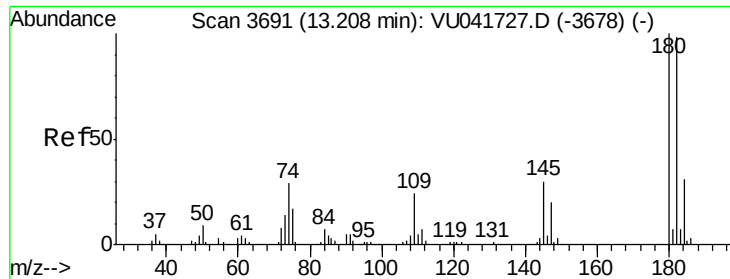


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

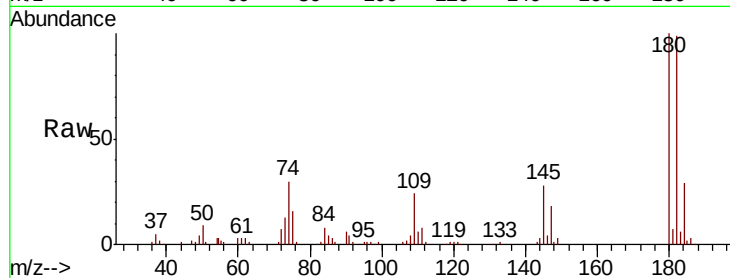




#67
 1,3,5-Trichlorobenzene
 Concen: 5.071 ug/L
 RT: 13.21 min Scan# 3691
 Delta R.T. -0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.3	114.5
184	30.0	24.1	36.1
145	28.6	24.1	36.1



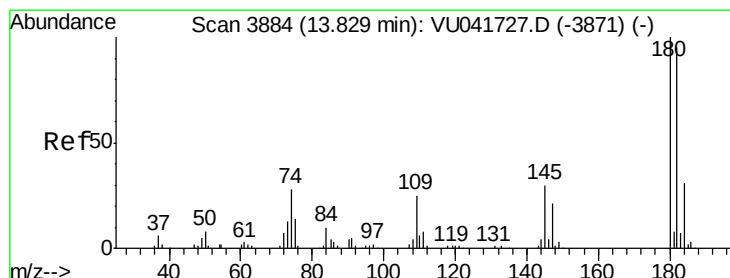
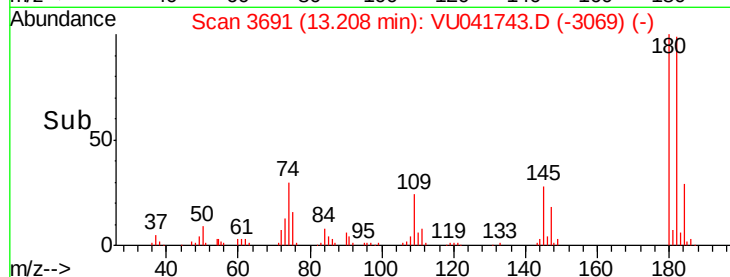
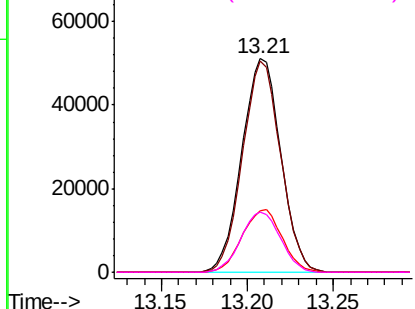
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

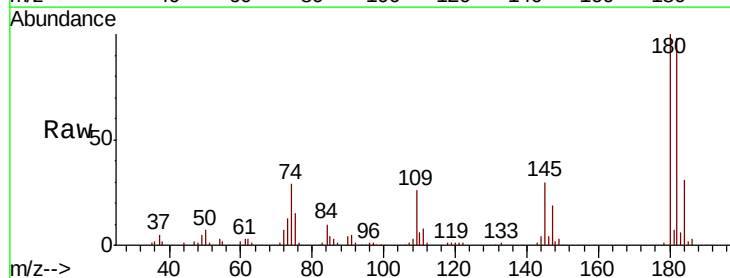
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.634 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU041743.D
 Acq: 22 Dec 2020 15:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	75.4	113.0
145	29.9	24.5	36.7

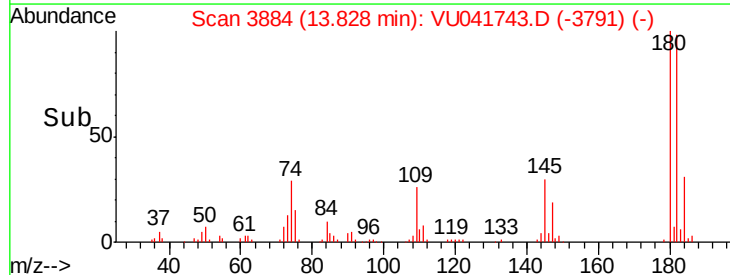
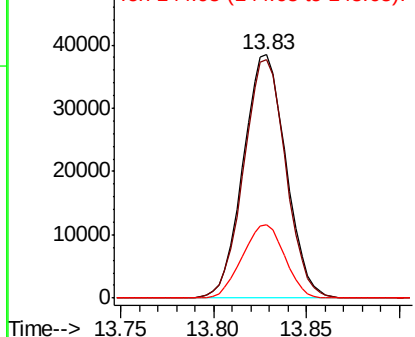


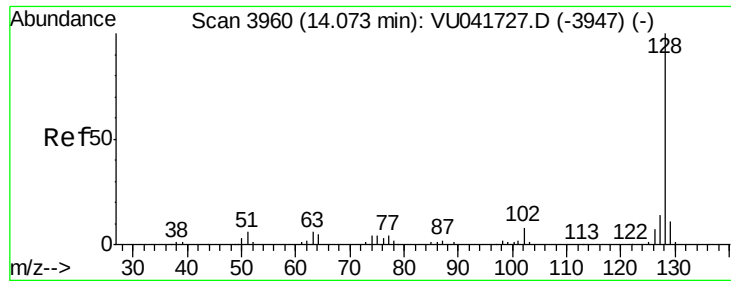
Abundance

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: 3.972 ug/L

RT: 14.07 min Scan# 3960

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

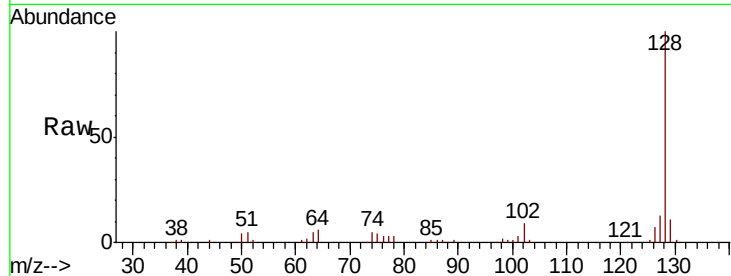
Tot Ion:128 Resp: 109694

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

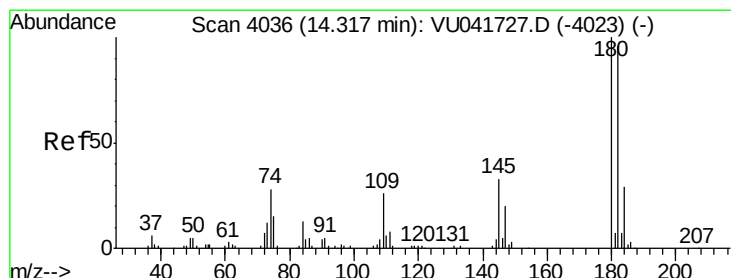
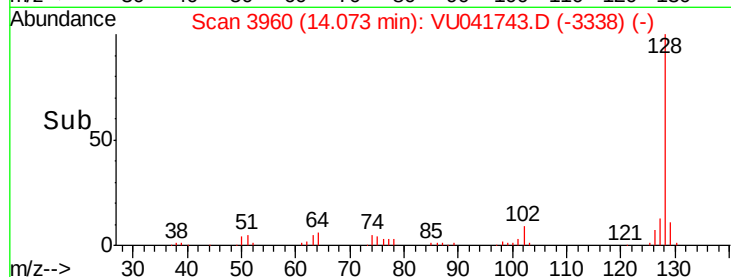
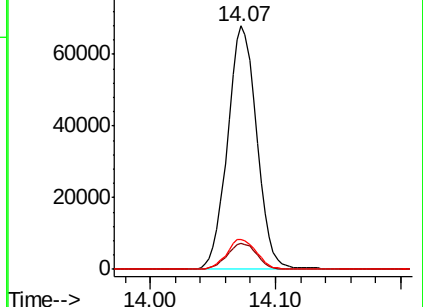
127 12.6 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.674 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU041743.D

Acq: 22 Dec 2020 15:48

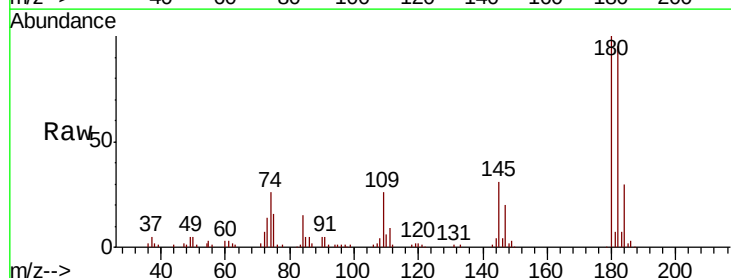
Tgt Ion:180 Resp: 59434

Ion Ratio Lower Upper

180 100

182 94.6 77.0 115.4

145 31.7 26.4 39.6



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

