

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101020\
 Data File : VU040632.D
 Acq On : 10 Oct 2020 13:33
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050213

Quant Time: Oct 12 01:39:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 12 01:29:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	265233	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	261616	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	141943	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	97741	42.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.82%
7) Chloroethane-d5	1.92	69	73385	42.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.58%
11) 1,1-Dichloroethene-d2	2.58	63	197797	45.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.02%
21) 2-Butanone-d5	4.65	46	207683	114.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.89%
24) Chloroform-d	5.08	84	193540	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.52%
26) 1,2-Dichloroethane-d4	5.72	65	129034	47.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.32%
32) Benzene-d6	5.74	84	357482	48.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.02%
36) 1,2-Dichloropropane-d6	6.70	67	118002	47.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.58%
41) Toluene-d8	7.90	98	328283	48.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.28%
43) trans-1,3-Dichloropropene-	8.19	79	61146	48.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.90%
47) 2-Hexanone-d5	8.64	63	138968	119.46	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	119.46%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	181898	50.46	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.92%
66) 1,2-Dichlorobenzene-d4	12.19	152	133715	46.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.58%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	127090	49.762	ug/L 100
3) Chloromethane	1.53	50	118262	44.064	ug/L 99
5) Vinyl chloride	1.61	62	124315	46.784	ug/L 99
6) Bromomethane	1.87	94	59727	42.824	ug/L 97
8) Chloroethane	1.94	64	73367	45.761	ug/L 96
9) Trichlorofluoromethane	2.15	101	170735	50.090	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	101450	49.930	ug/L 97
12) 1,1-Dichloroethene	2.59	96	92962	49.485	ug/L 94
13) Acetone	2.65	43	217369	125.208	ug/L 100
14) Carbon disulfide	2.81	76	307333	47.654	ug/L 100
15) Methyl Acetate	2.96	43	153724	54.286	ug/L 100
16) Methylene chloride	3.06	84	107013	48.034	ug/L 96
17) trans-1,2-Dichloroethene	3.37	96	98296	49.127	ug/L 96
18) Methyl tert-butyl Ether	3.38	73	311783	49.543	ug/L 99
19) 1,1-Dichloroethane	3.89	63	196098	49.140	ug/L 99
20) cis-1,2-Dichloroethene	4.68	96	107427	49.819	ug/L 99
22) 2-Butanone	4.73	43	258689	116.811	ug/L 100

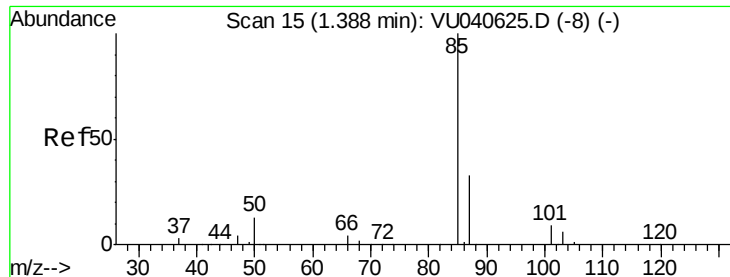
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101020\
 Data File : VU040632.D
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 Quant Title : VOC Analysis
 QLast Update : Mon Oct 12 01:29:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	54864	48.824	ug/L	98
25) Chloroform	5.11	83	199437	49.012	ug/L	99
27) 1,2-Dichloroethane	5.81	62	165863	49.392	ug/L	100
29) Cyclohexane	5.40	56	179866	51.347	ug/L	98
30) 1,1,1-Trichloroethane	5.33	97	169157	50.345	ug/L	98
31) Carbon tetrachloride	5.54	117	146646	50.473	ug/L	98
33) Benzene	5.79	78	423836	50.122	ug/L	100
34) Trichloroethene	6.55	95	106845	49.049	ug/L	98
35) Methylcyclohexane	6.77	83	168625	50.915	ug/L	99
37) 1,2-Dichloropropane	6.80	63	115493	49.737	ug/L	99
38) Bromodichloromethane	7.11	83	146375	48.529	ug/L	99
39) cis-1,3-Dichloropropene	7.62	75	163928	48.169	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	401895	109.687	ug/L	100
42) Toluene	7.98	91	436650	50.578	ug/L	97
44) trans-1,3-Dichloropropene	8.21	75	171936	50.178	ug/L	100
45) 1,1,2-Trichloroethane	8.40	97	104684	50.325	ug/L	99
46) Tetrachloroethene	8.56	164	79498	50.506	ug/L	97
48) 2-Hexanone	8.69	43	346051	116.202	ug/L	98
49) Dibromochloromethane	8.81	129	112004	49.311	ug/L	100
50) 1,2-Dibromoethane	8.93	107	113205	51.336	ug/L	98
51) Chlorobenzene	9.45	112	274365	48.453	ug/L	99
52) Ethylbenzene	9.57	91	483955	50.504	ug/L	100
53) m,p-Xylene	9.69	106	181866	51.540	ug/L	99
54) o-xylene	10.10	106	174367	51.938	ug/L	99
55) Styrene	10.11	104	312370	52.825	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.78	83	186432	50.681	ug/L	99
59) Bromoform	10.29	173	82860	47.627	ug/L	99
60) 1,2,3-Trichloropropane	10.82	75	153839	47.714	ug/L	99
61) Isopropylbenzene	10.48	105	461285	48.391	ug/L	100
62) 1,3,5-Trimethylbenzene	11.09	105	389666	49.753	ug/L	99
63) 1,2,4-Trimethylbenzene	11.47	105	402369	50.657	ug/L	100
64) 1,3-Dichlorobenzene	11.74	146	226046	48.633	ug/L	98
65) 1,4-Dichlorobenzene	11.83	146	230345	47.185	ug/L	99
67) 1,2-Dichlorobenzene	12.20	146	223873	48.080	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.99	75	46759	51.617	ug/L	97
69) 1,3,5-Trichlorobenzene	13.21	180	155247	50.977	ug/L	99
70) 1,2,4-trichlorobenzene	13.83	180	132331	50.134	ug/L	98
71) Naphthalene	14.08	128	427110	52.349	ug/L	100
72) 1,2,3-Trichlorobenzene	14.32	180	138142	52.725	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 49.762 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

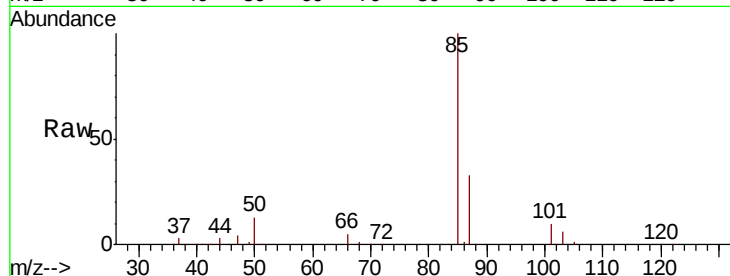
VSTD050213

Tot Ion: 85 Resp: 127090

Ion Ratio Lower Upper

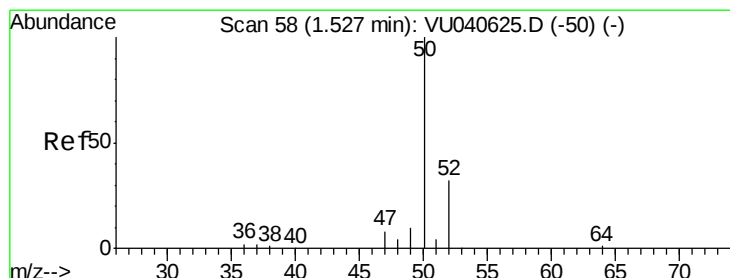
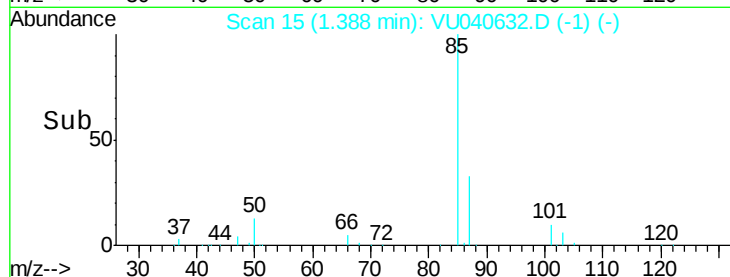
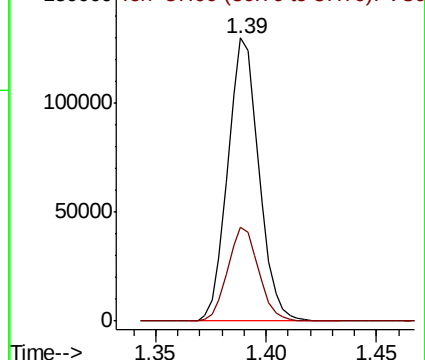
85 100

87 32.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040632.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU040632.D (-1) (-)



#3

Chloromethane

Concen: 44.064 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040632.D

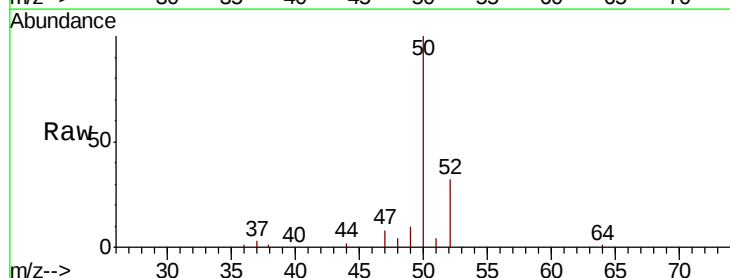
Acq: 10 Oct 2020 13:33

Tgt Ion: 50 Resp: 118262

Ion Ratio Lower Upper

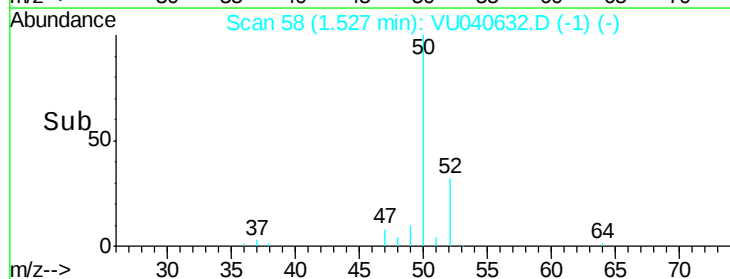
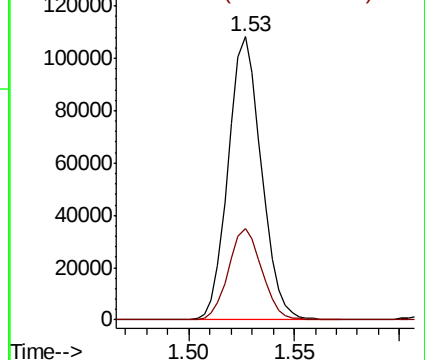
50 100

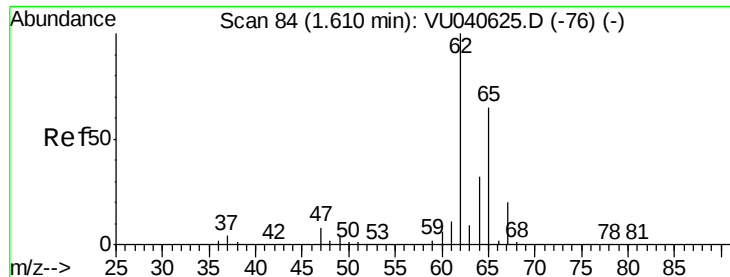
52 32.1 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040632.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU040632.D (-1) (-)





#5

Vinyl chloride

Concen: 46.784 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

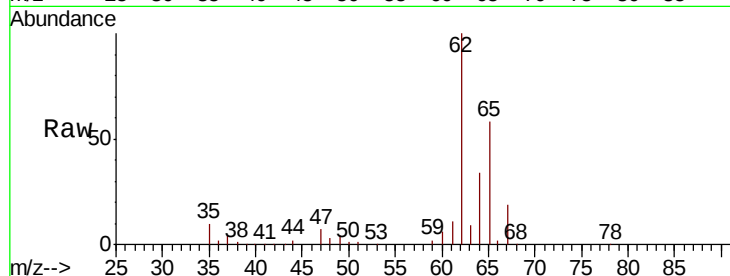
VSTD050213

Tot Ion: 62 Resp: 124315

Ion Ratio Lower Upper

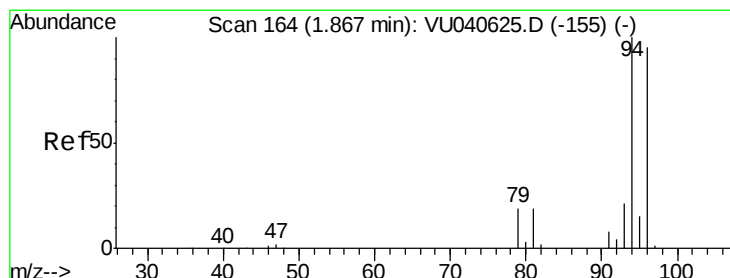
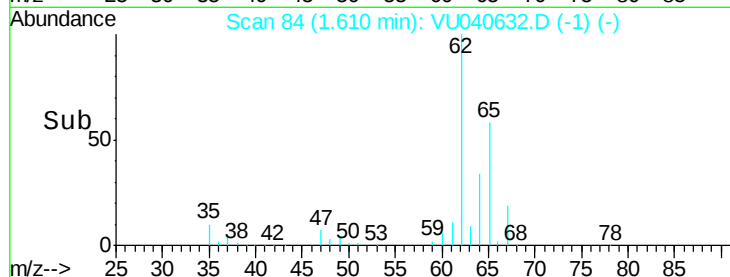
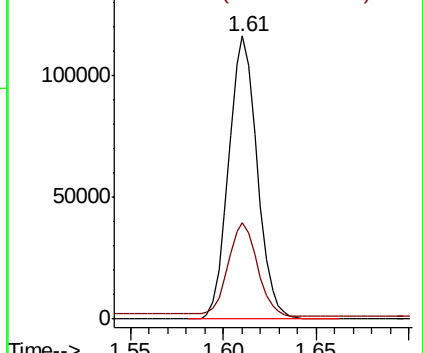
62 100

64 33.9 23.4 43.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 42.824 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU040632.D

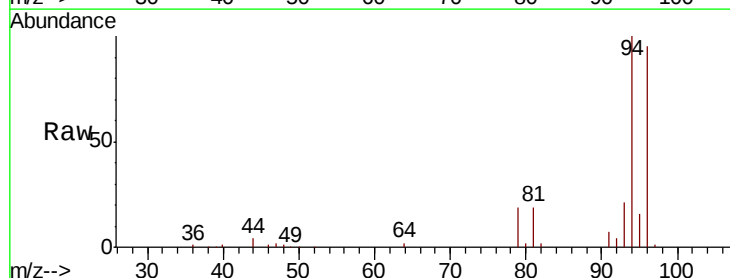
Acq: 10 Oct 2020 13:33

Tgt Ion: 94 Resp: 59727

Ion Ratio Lower Upper

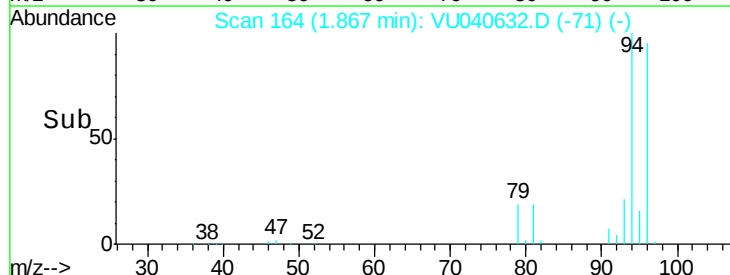
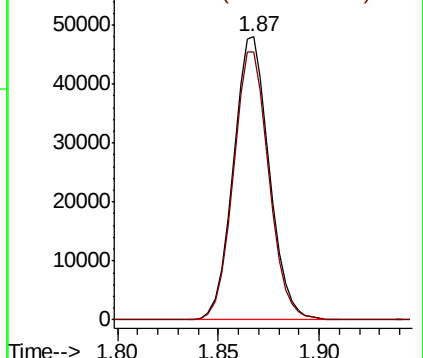
94 100

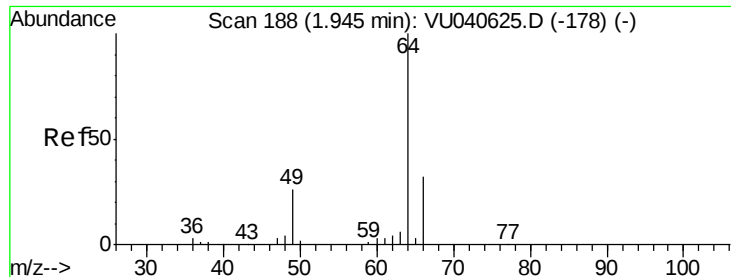
96 94.7 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 45.761 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

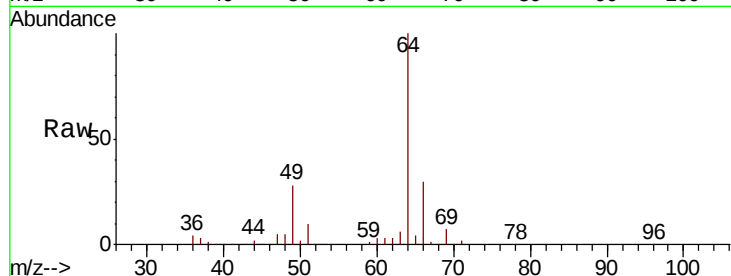
VSTD050213

Tot Ion: 64 Resp: 73367

Ion Ratio Lower Upper

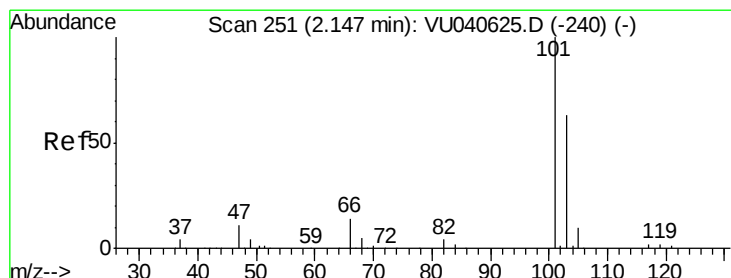
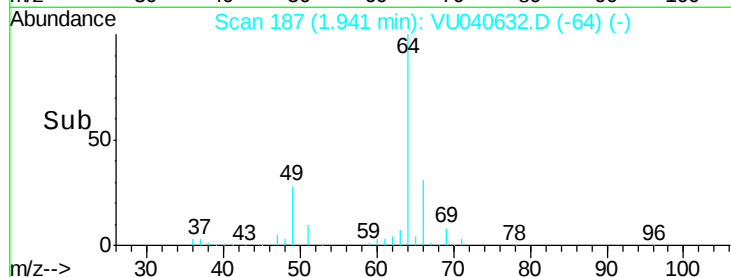
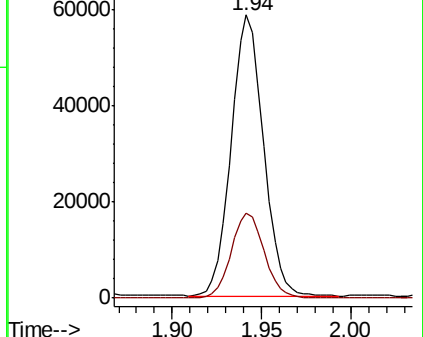
64 100

66 30.0 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU040632.D (-64) (-)

Ion 66.00 (65.70 to 66.70): VU040632.D (-66) (-)



#9

Trichlorofluoromethane

Concen: 50.090 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU040632.D

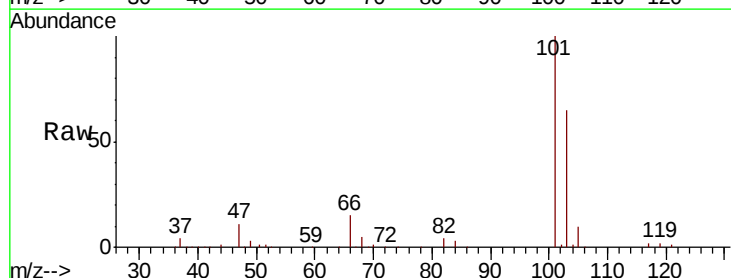
Acq: 10 Oct 2020 13:33

Tgt Ion:101 Resp: 170735

Ion Ratio Lower Upper

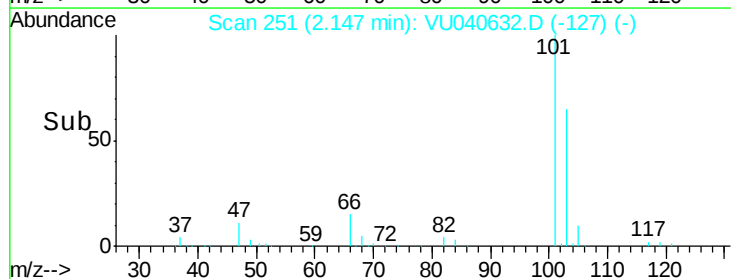
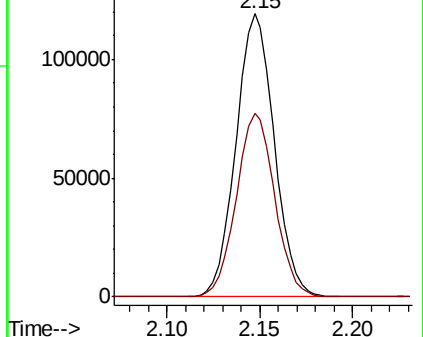
101 100

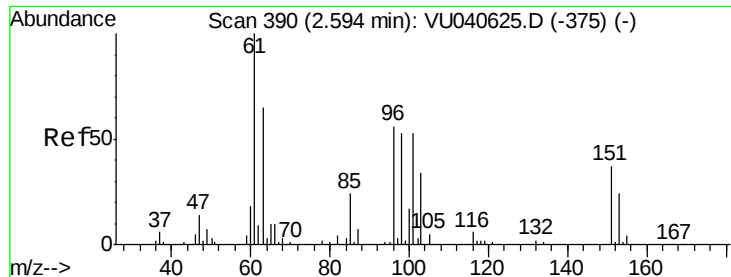
103 65.0 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VU040632.D (-127) (-)

Ion 103.00 (102.70 to 103.70): VU040632.D (-103) (-)





#10

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

Concen: 49.930 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD050213

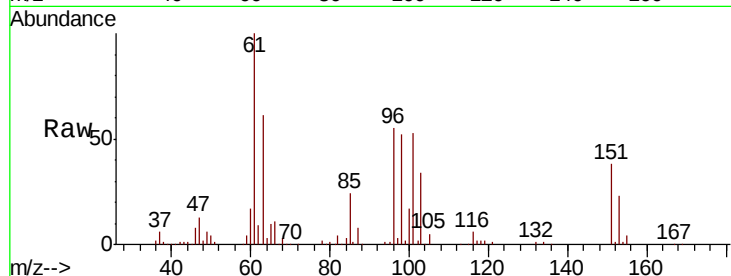
Tot Ion:101 Resp: 101450

Ion Ratio Lower Upper

101 100

85 45.5 35.4 53.2

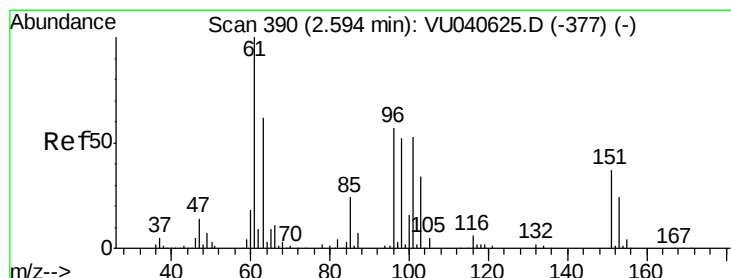
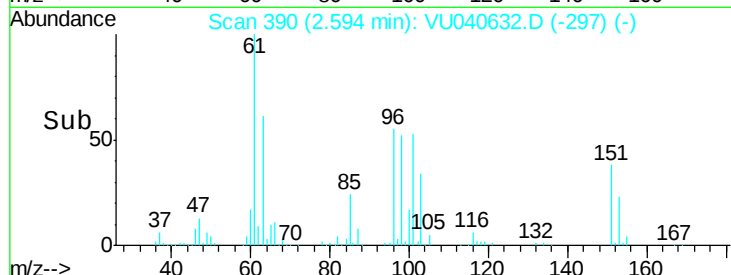
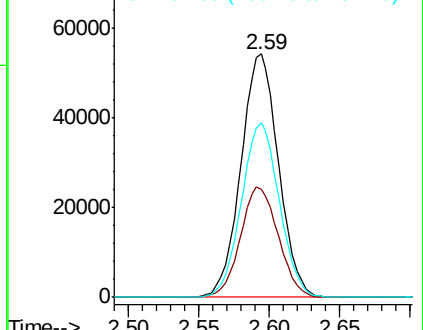
151 72.2 54.8 82.2



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: 49.485 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

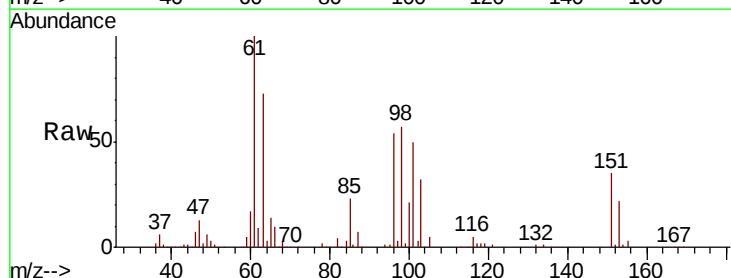
Tgt Ion: 96 Resp: 92962

Ion Ratio Lower Upper

96 100

61 185.7 135.0 250.8

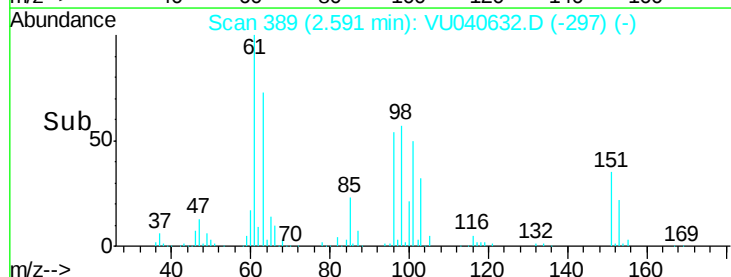
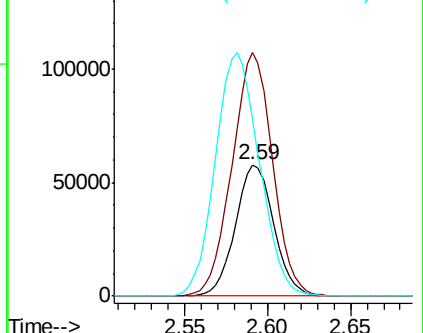
63 135.1 101.4 188.2

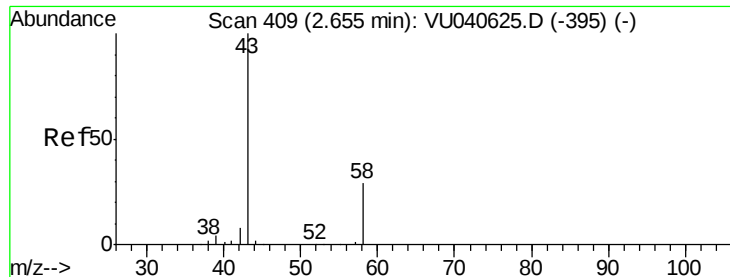


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 125.208 ug/L

RT: 2.65 min Scan# 407

Delta R.T. -0.01 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

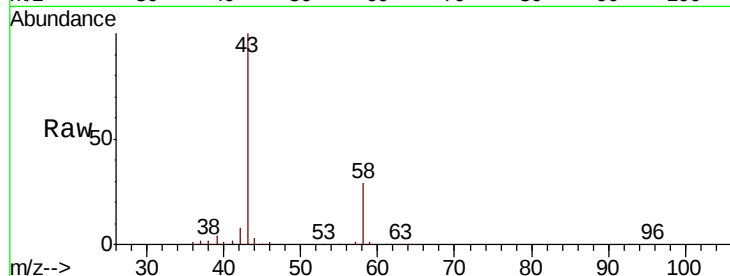
VSTD050213

Tot Ion: 43 Resp: 217369

Ion Ratio Lower Upper

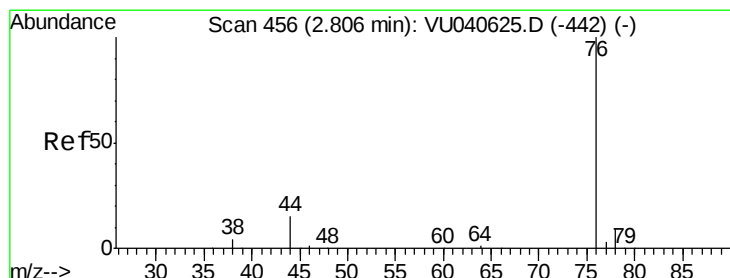
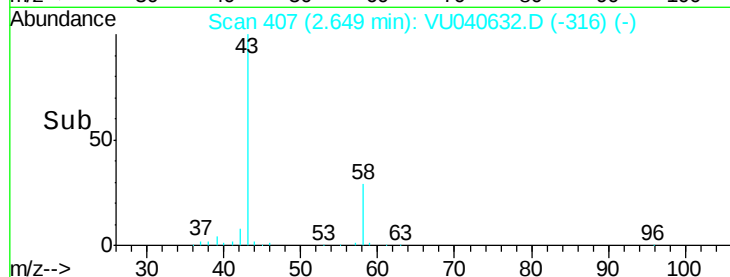
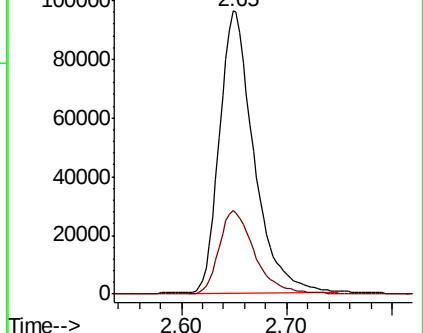
43 100

58 30.2 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040632.D (-316) (-)

Ion 58.00 (57.70 to 58.70): VU040632.D (-316) (-)



#14

Carbon disulfide

Concen: 47.654 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040632.D

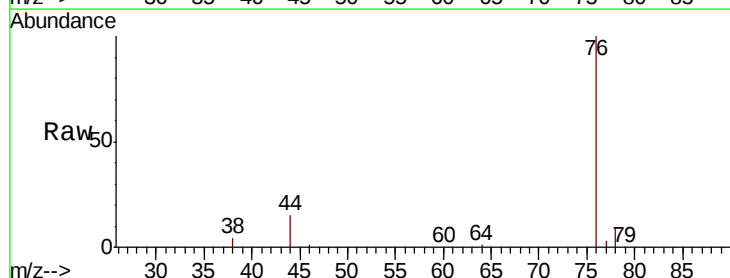
Acq: 10 Oct 2020 13:33

Tgt Ion: 76 Resp: 307333

Ion Ratio Lower Upper

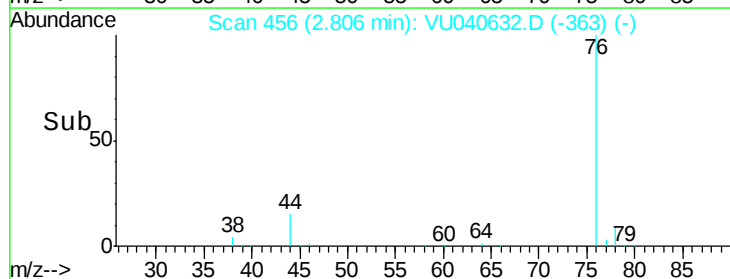
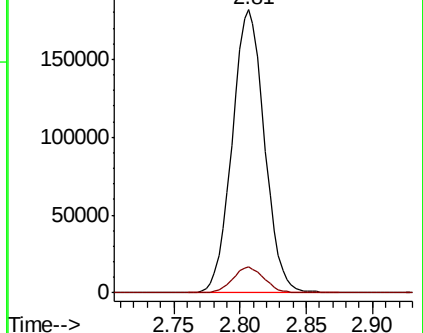
76 100

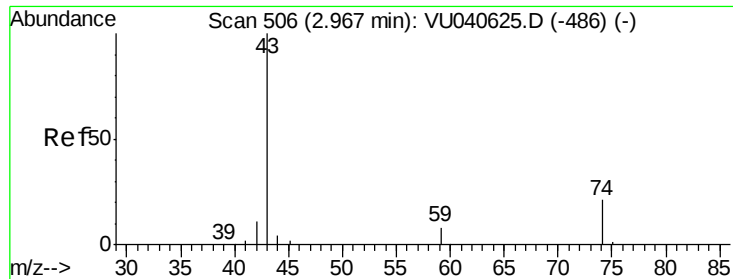
78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040632.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040632.D (-363) (-)

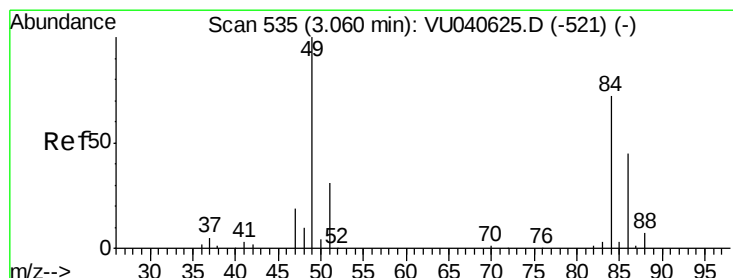
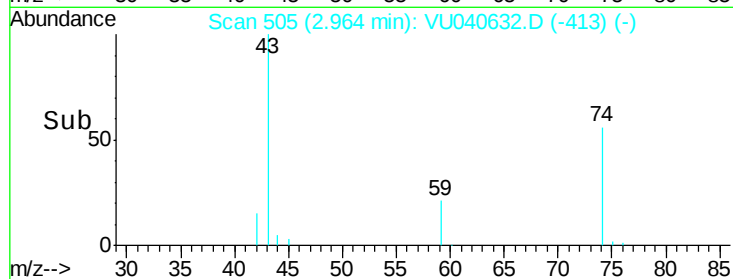
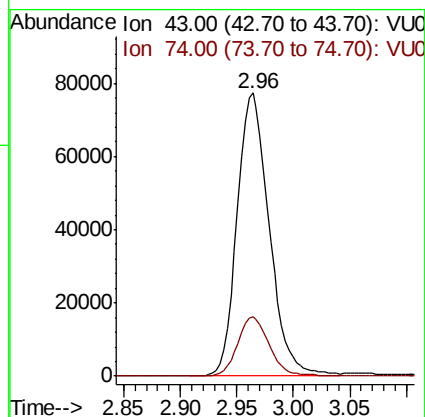
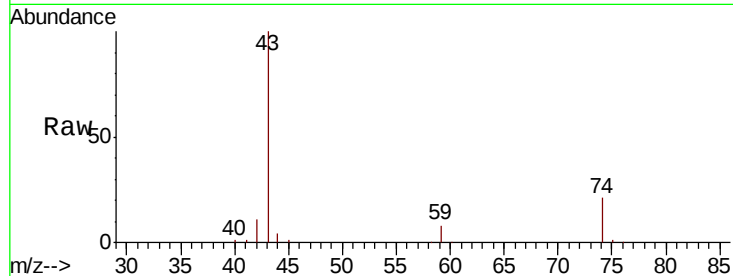




#15
Methvl Acetate
Concen: 54.286 ug/L
RT: 2.96 min Scan# 505
Delta R.T. -0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

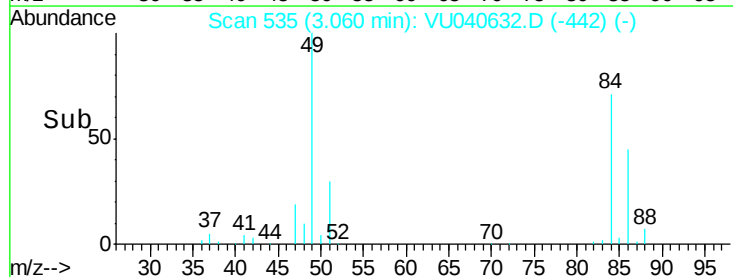
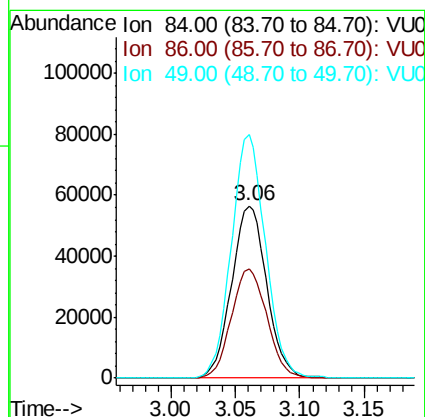
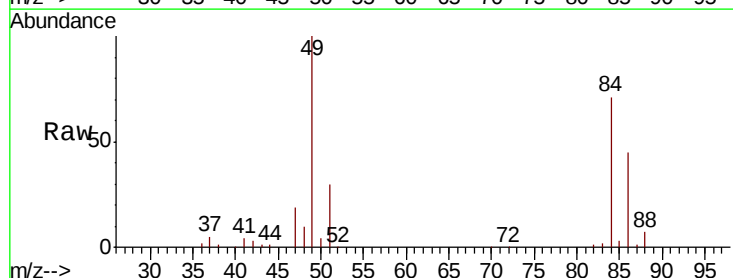
Instrument :
MSVOA_U
ClientSampleId :
VSTD050213

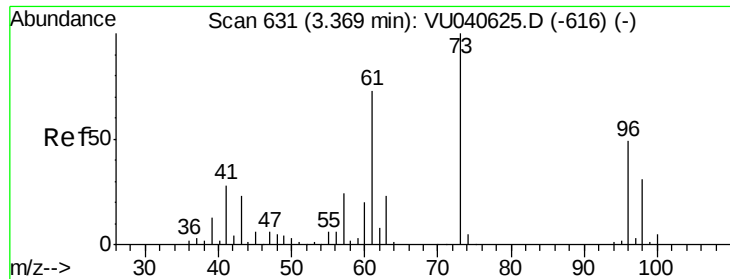
Tot Ion: 43 Resp: 153724
Ion Ratio Lower Upper
43 100
74 20.3 16.4 24.6



#16
Methylene chloride
Concen: 48.034 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

Tgt Ion: 84 Resp: 107013
Ion Ratio Lower Upper
84 100
86 63.3 45.4 84.4
49 141.4 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 49.127 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD050213

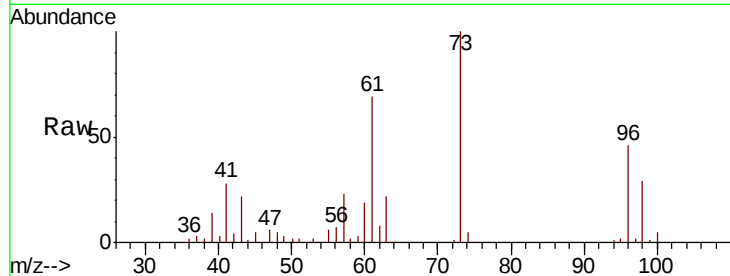
Tot Ion: 96 Resp: 98296

Ion Ratio Lower Upper

96 100

61 149.9 109.6 203.6

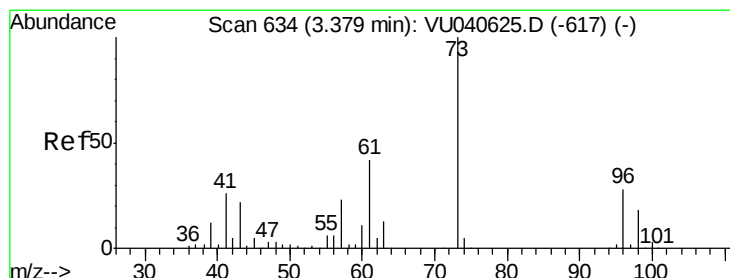
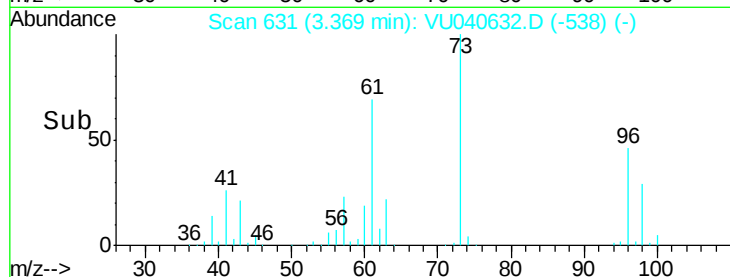
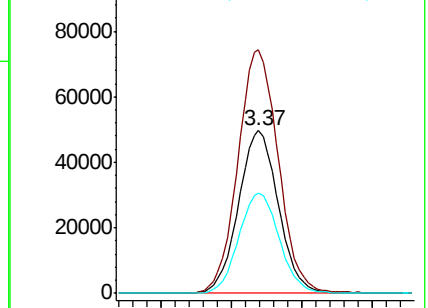
98 62.0 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040632.D (-538) (-)

Ion 61.00 (60.70 to 61.70): VU040632.D (-538) (-)

Ion 98.00 (97.70 to 98.70): VU040632.D (-538) (-)



#18

Methyl tert-butyl Ether

Concen: 49.543 ug/L

RT: 3.38 min Scan# 634

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

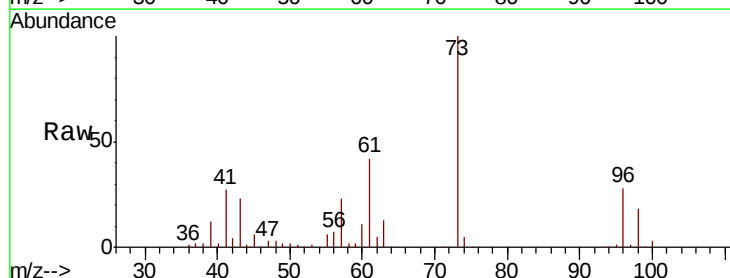
Tgt Ion: 73 Resp: 311783

Ion Ratio Lower Upper

73 100

43 22.3 18.2 27.2

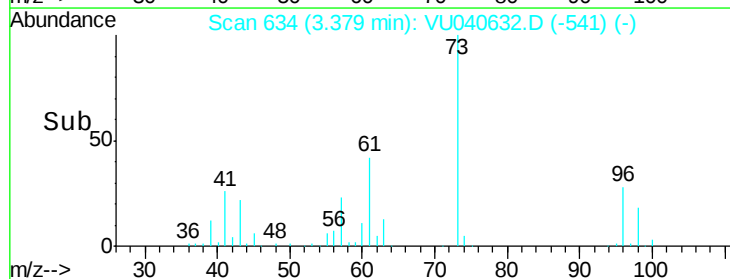
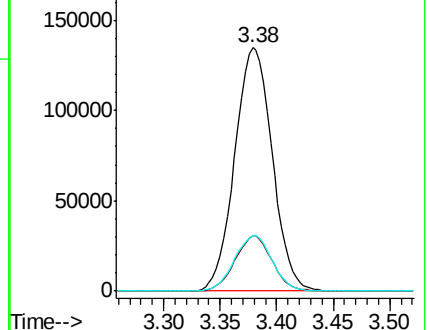
57 22.8 18.5 27.7

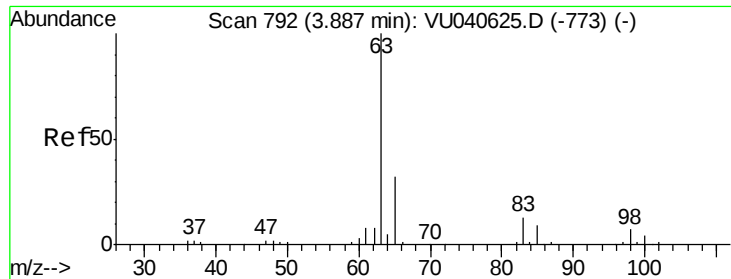


Abundance Ion 73.00 (72.70 to 73.70): VU040632.D (-541) (-)

Ion 43.00 (42.70 to 43.70): VU040632.D (-541) (-)

Ion 57.00 (56.70 to 57.70): VU040632.D (-541) (-)

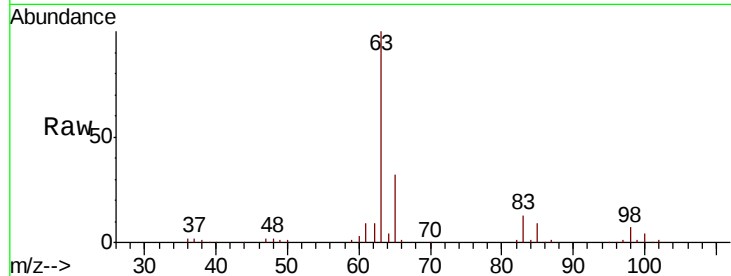




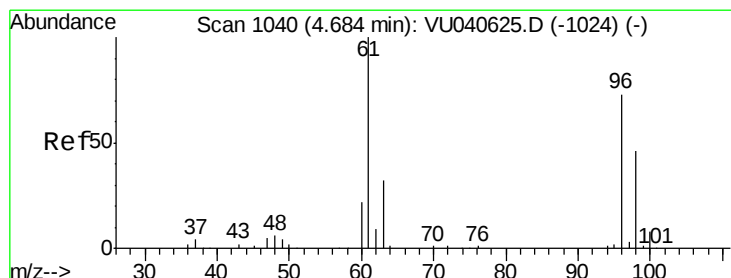
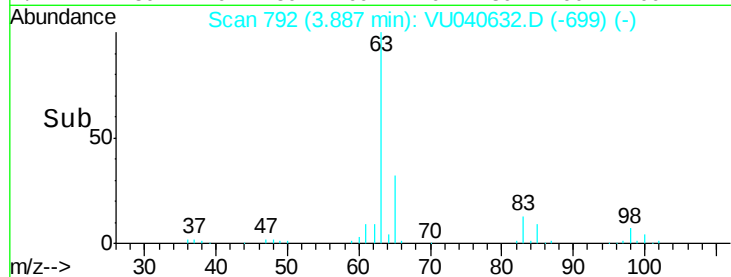
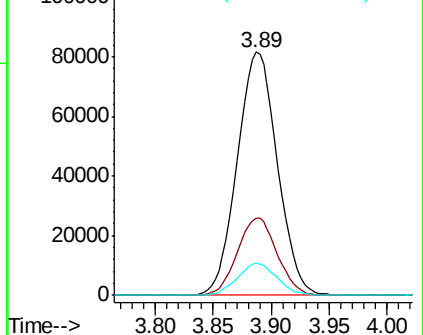
#19
 1,1-Dichloroethane
 Concen: 49.140 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050213

Tot Ion: 63 Resp: 196098
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.6 42.0
 83 13.1 9.1 16.9

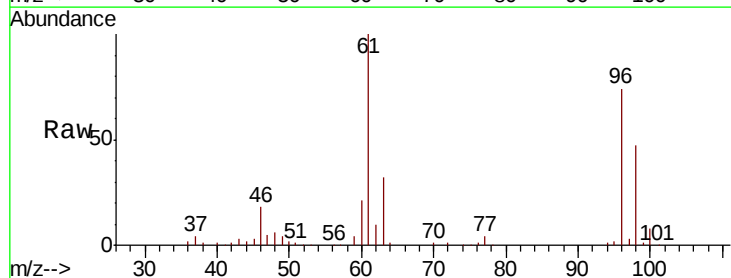


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

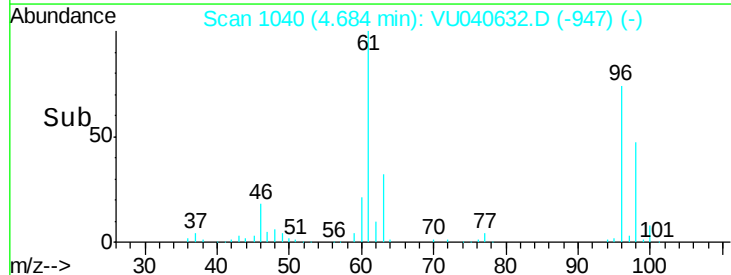
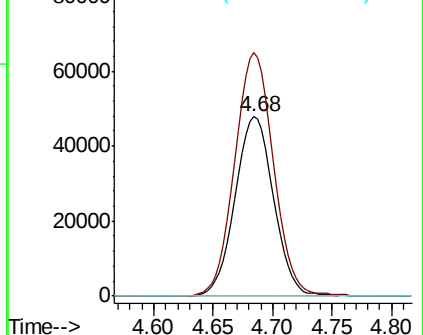


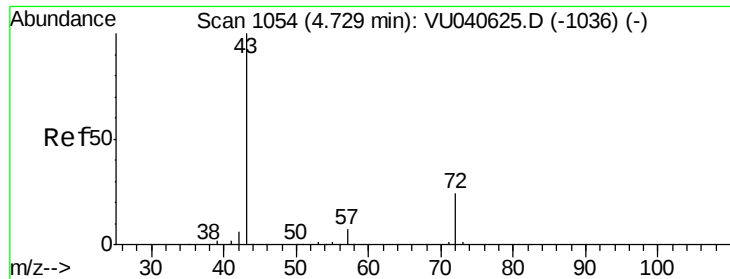
#20
 cis-1,2-Dichloroethene
 Concen: 49.819 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Tgt Ion: 96 Resp: 107427
 Ion Ratio Lower Upper
 96 100
 61 135.7 95.7 177.7
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 116.811 ug/L

RT: 4.73 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

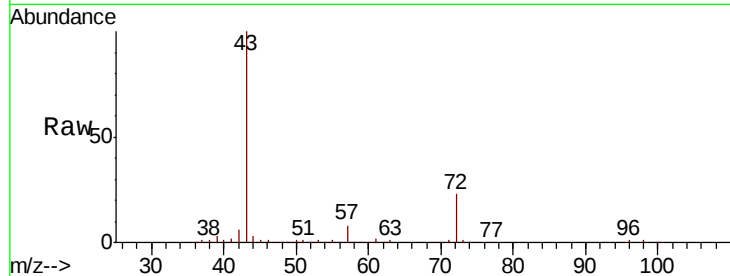
VSTD050213

Tot Ion: 43 Resp: 258689

Ion Ratio Lower Upper

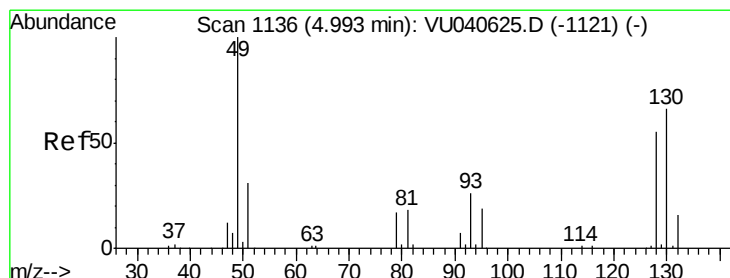
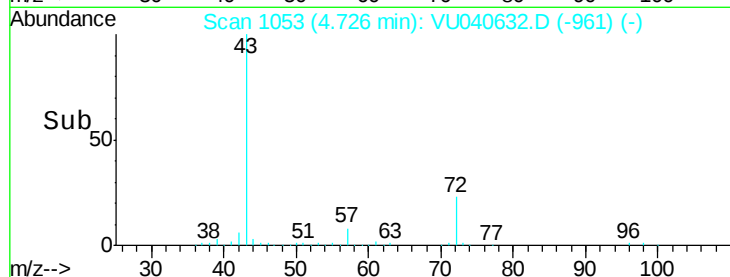
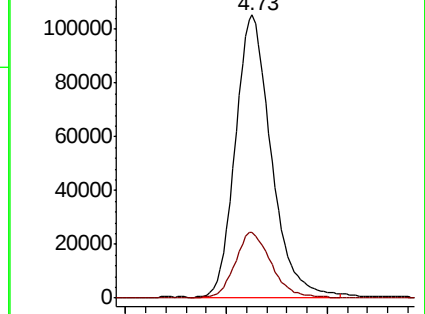
43 100

72 23.9 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VU040632.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU040632.D (-961) (-)



#23

Bromochloromethane

Concen: 48.824 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Tgt Ion:128 Resp: 54864

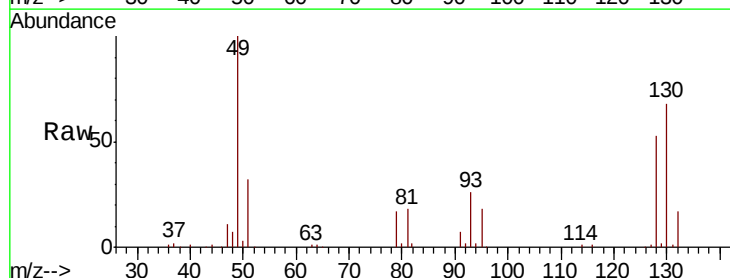
Ion Ratio Lower Upper

128 100

49 187.2 133.1 247.3

130 127.1 90.5 168.1

51 59.0 48.4 72.6

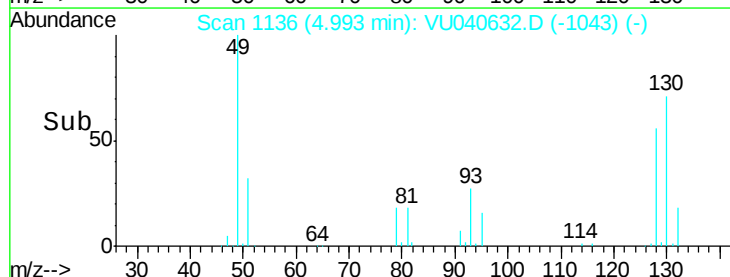
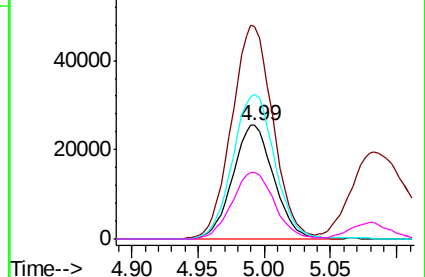


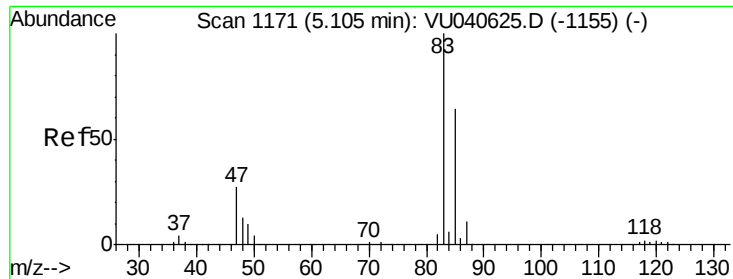
Abundance Ion 128.00 (127.70 to 128.70): VU040632.D (-1043) (-)

Ion 49.00 (48.70 to 49.70): VU040632.D (-1043) (-)

Ion 130.00 (129.70 to 130.70): VU040632.D (-1043) (-)

Ion 51.00 (50.70 to 51.70): VU040632.D (-1043) (-)





#25

Chloroform

Concen: 49.012 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

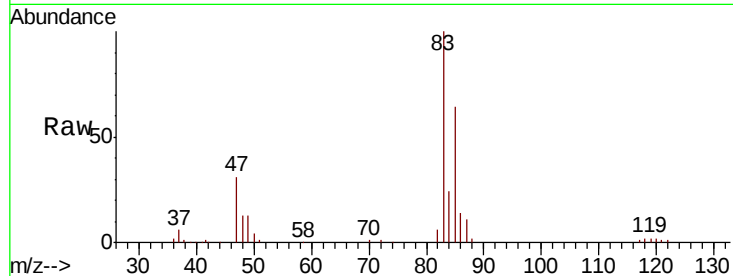
VSTD050213

Tot Ion: 83 Resp: 199437

Ion Ratio Lower Upper

83 100

85 64.2 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

5.11

100000

80000

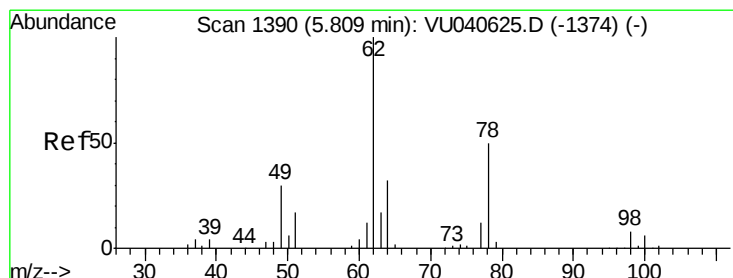
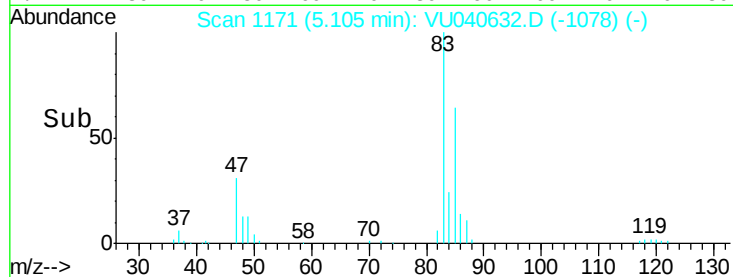
60000

40000

20000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#27

1,2-Dichloroethane

Concen: 49.392 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU040632.D

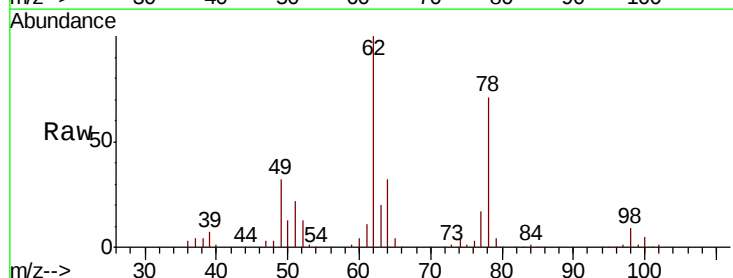
Acq: 10 Oct 2020 13:33

Tgt Ion: 62 Resp: 165863

Ion Ratio Lower Upper

62 100

98 8.8 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.81

100000

80000

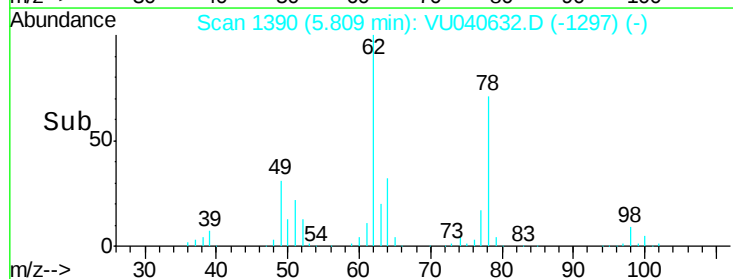
60000

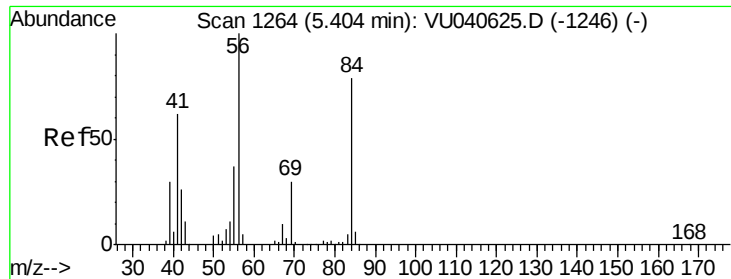
40000

20000

0

Time--> 5.75 5.80 5.85 5.90

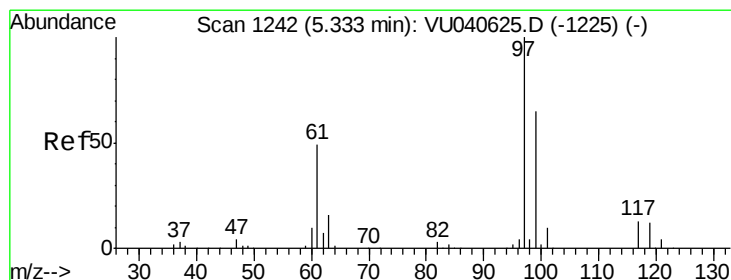
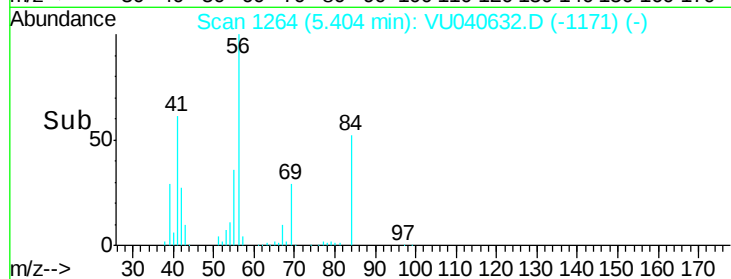
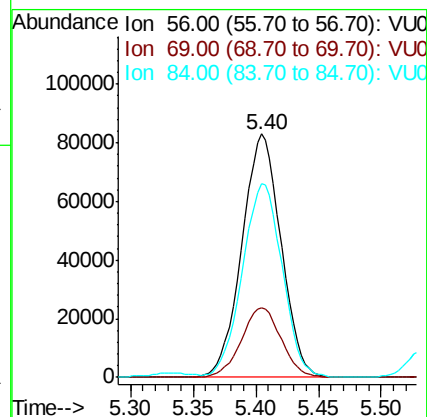
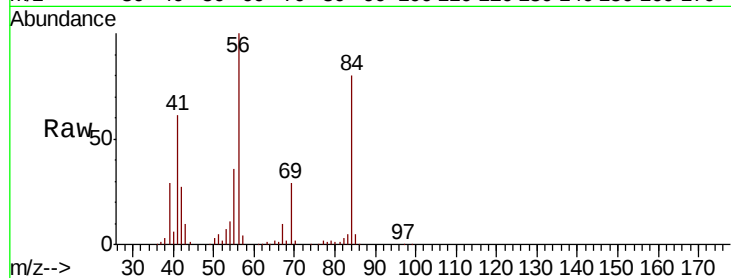




#29
Cyclohexane
Concen: 51.347 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

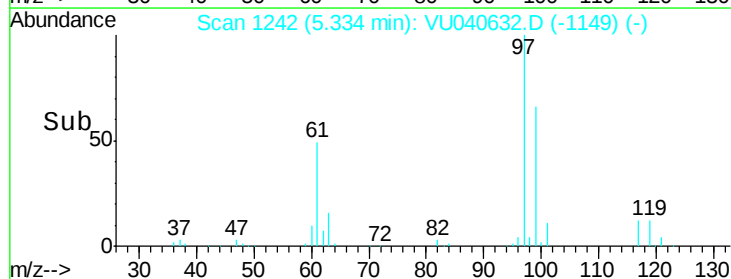
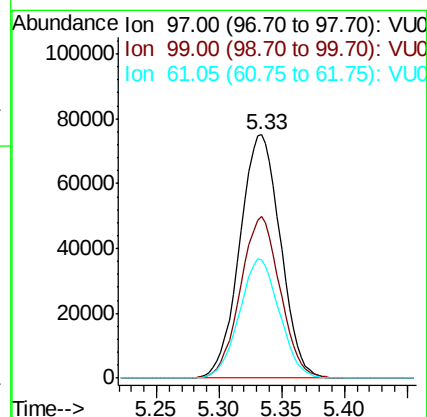
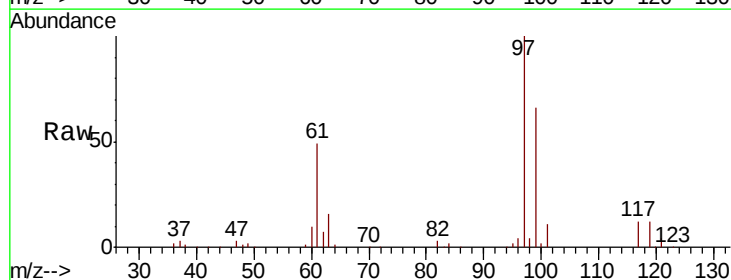
Instrument :
MSVOA_U
ClientSampleId :
VSTD050213

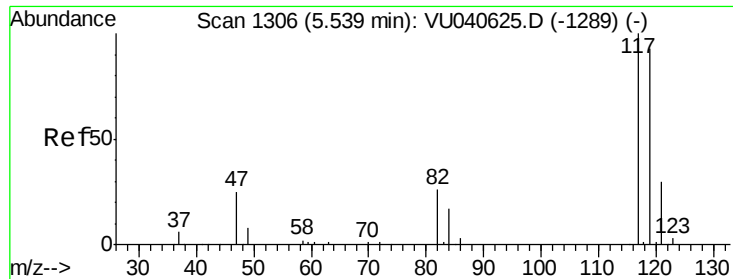
Tot Ion: 56 Resp: 179866
Ion Ratio Lower Upper
56 100
69 29.0 22.6 34.0
84 81.3 63.1 94.7



#30
1,1,1-Trichloroethane
Concen: 50.345 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

Tgt Ion: 97 Resp: 169157
Ion Ratio Lower Upper
97 100
99 65.0 51.0 76.6
61 48.3 39.4 59.2





#31

Carbon tetrachloride

Concen: 50.473 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

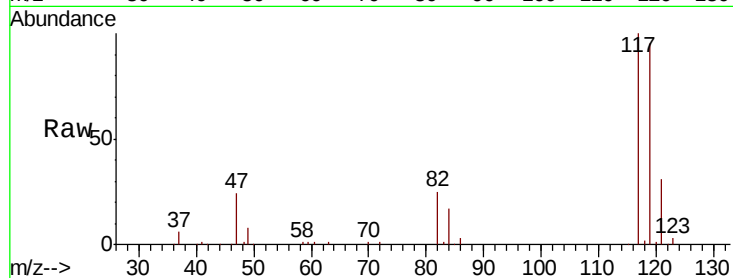
VSTD050213

Tot Ion:117 Resp: 146646

Ion Ratio Lower Upper

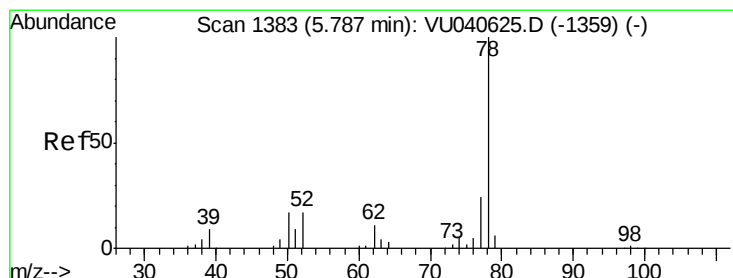
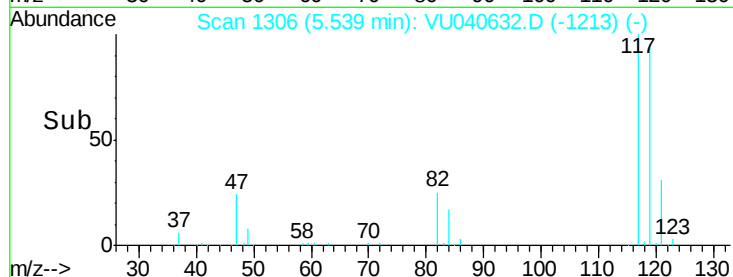
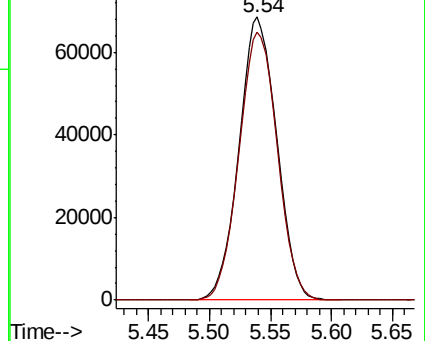
117 100

119 96.2 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.122 ug/L

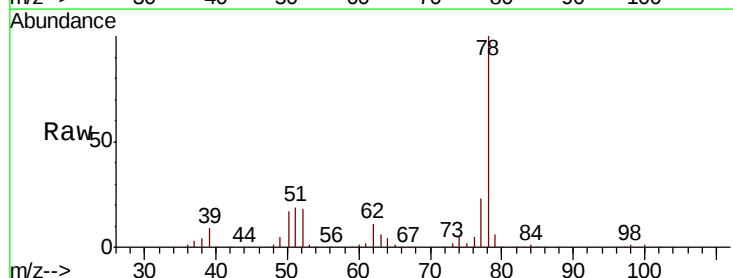
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Tgt Ion: 78 Resp: 423836



Abundance Ion 78.00 (77.70 to 78.70): VU0

250000

200000

150000

100000

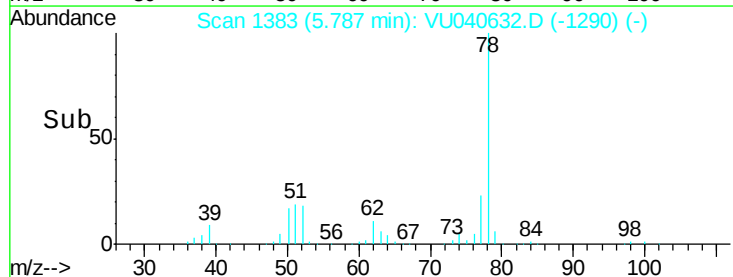
50000

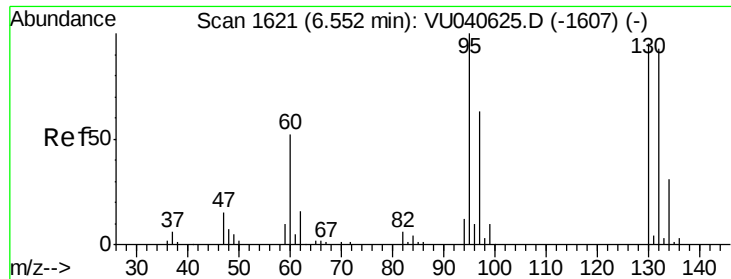
0

5.79

Time-->

5.70 5.80 5.90

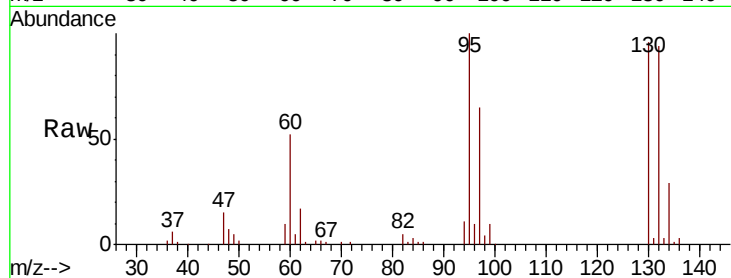




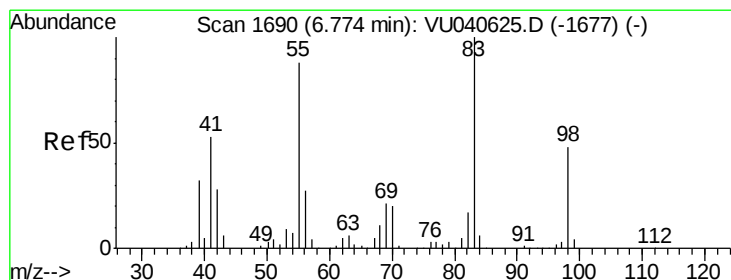
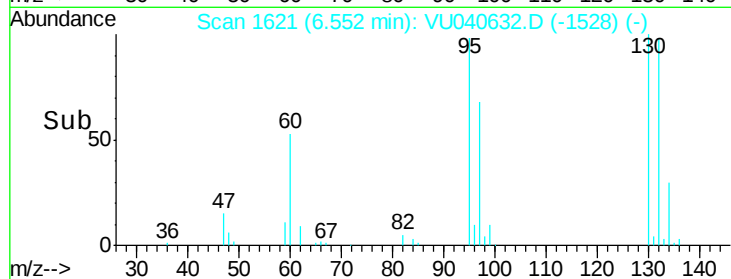
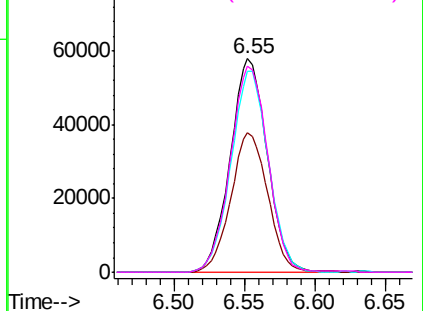
#34
 Trichloroethene
 Concen: 49.049 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050213

Tot Ion:	95	Resp:	106845
Ion	Ratio	Lower	Upper
95	100		
97	65.5	44.3	82.3
132	94.1	64.2	119.2
130	96.2	67.3	125.1

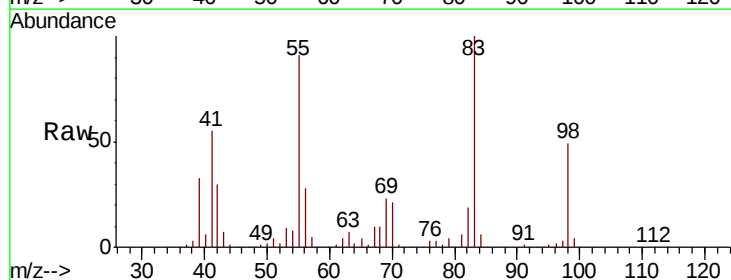


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

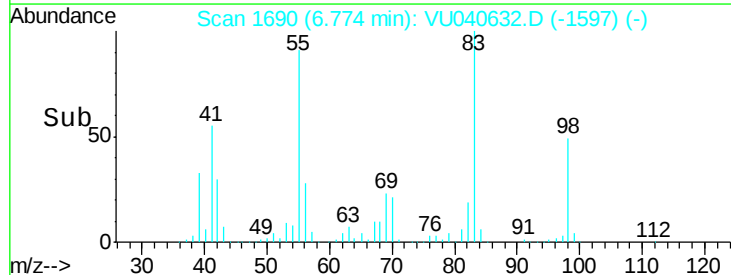
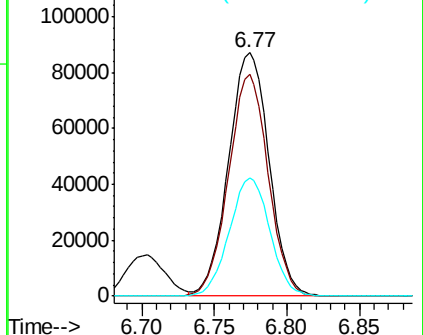


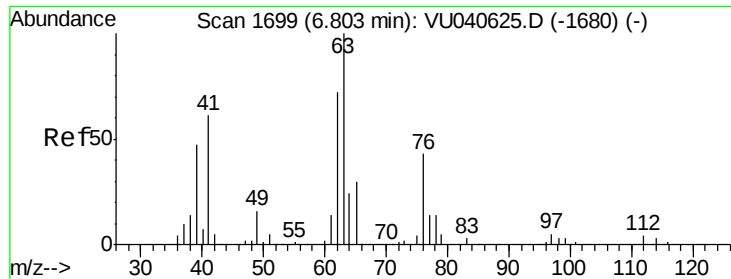
#35
 Methylcyclohexane
 Concen: 50.915 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Tgt Ion:	83	Resp:	168625
Ion	Ratio	Lower	Upper
83	100		
55	89.2	69.8	104.8
98	48.6	39.1	58.7



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

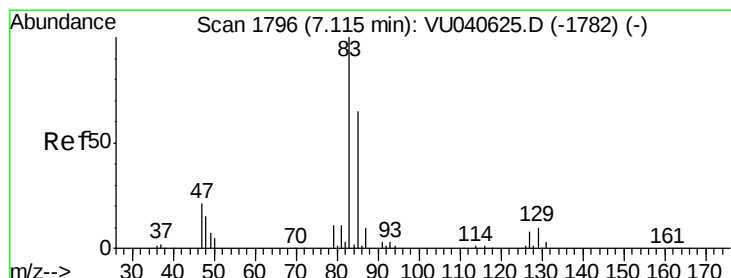
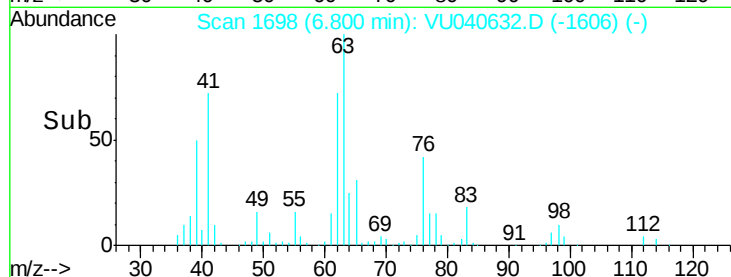
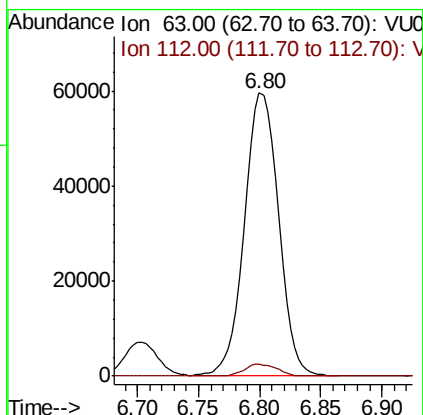
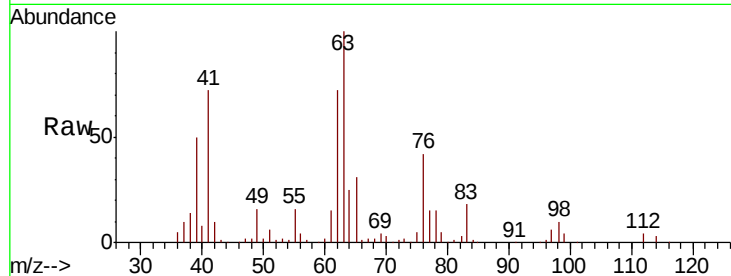




#37
 1,2-Dichloropropane
 Concen: 49.737 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

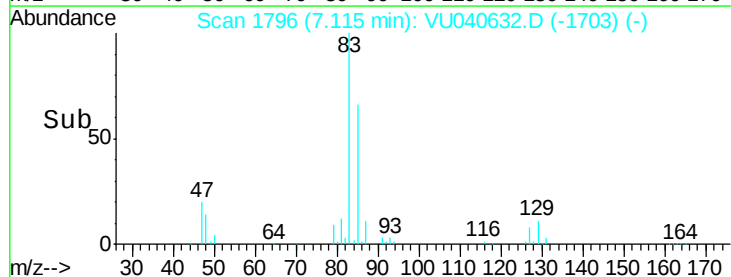
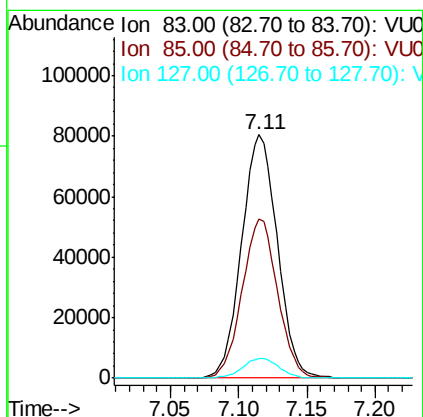
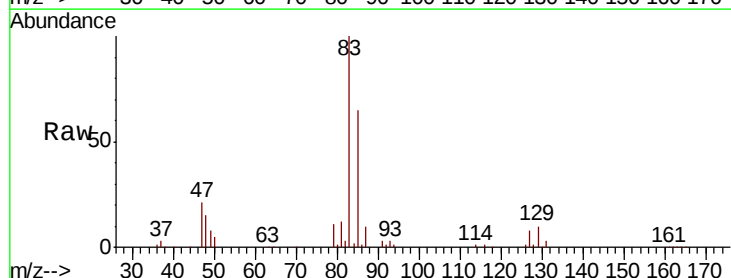
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050213

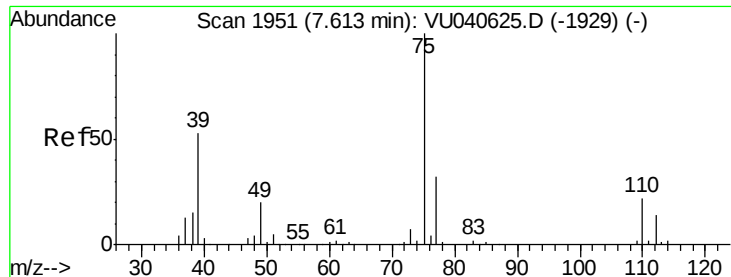
Tot Ion: 63 Resp: 115493
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.5 5.3



#38
 Bromodichloromethane
 Concen: 48.529 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Tgt Ion: 83 Resp: 146375
 Ion Ratio Lower Upper
 83 100
 85 65.3 45.2 84.0
 127 8.0 6.7 10.1

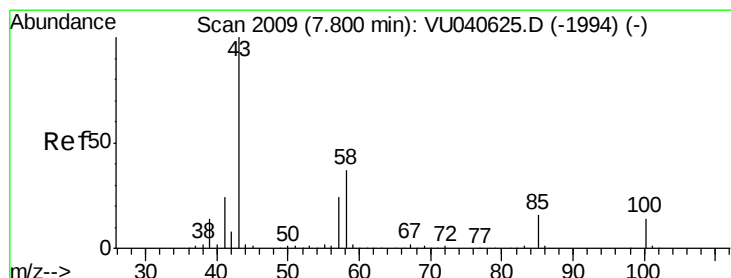
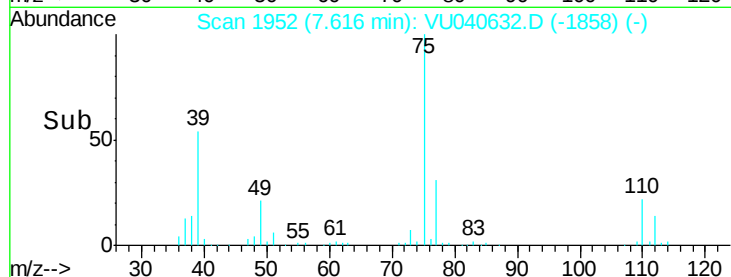
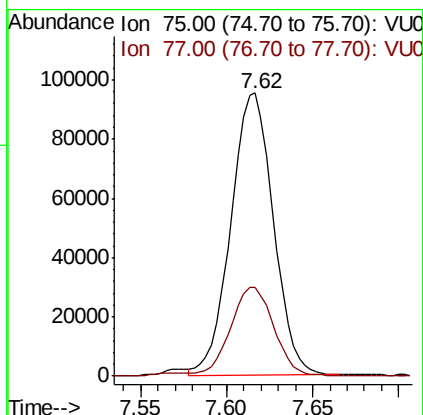
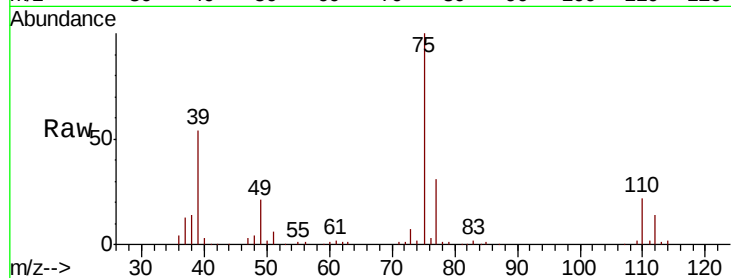




#39
 cis-1,3-Dichloropropene
 Concen: 48.169 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

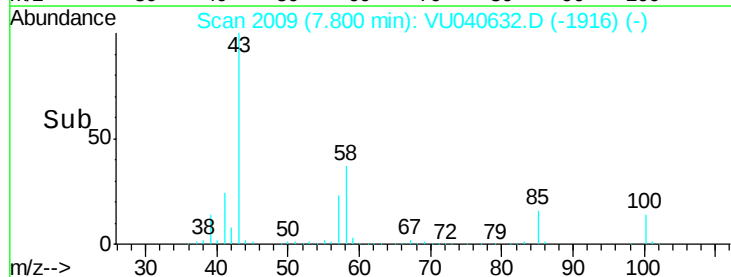
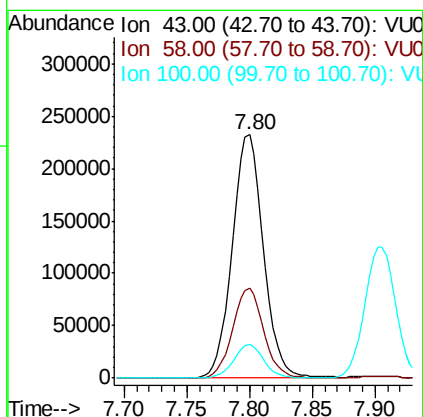
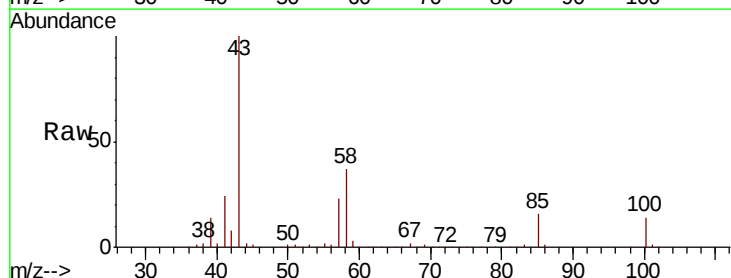
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD050213

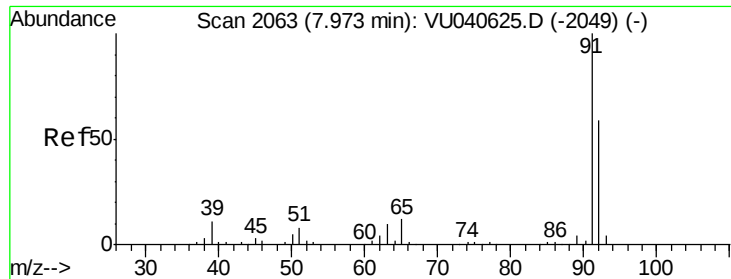
Tot Ion: 75 Resp: 163928
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 109.687 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Tgt Ion: 43 Resp: 401895
 Ion Ratio Lower Upper
 43 100
 58 36.9 29.7 44.5
 100 13.3 10.5 15.7





#42

Toluene

Concen: 50.578 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

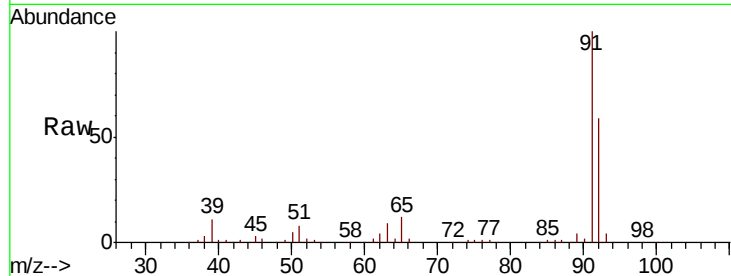
VSTD050213

Tot Ion: 91 Resp: 436650

Ion Ratio Lower Upper

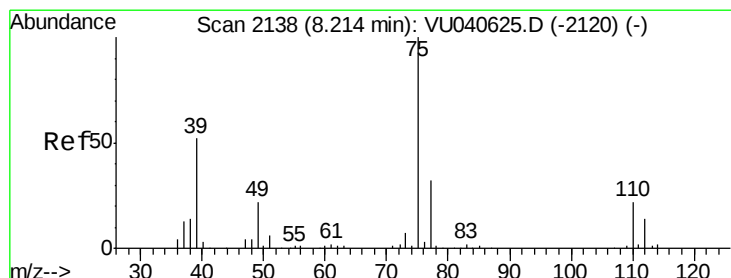
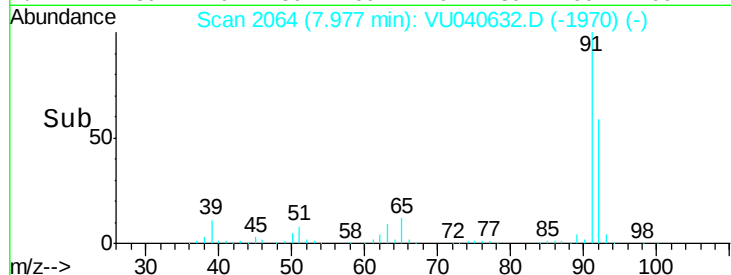
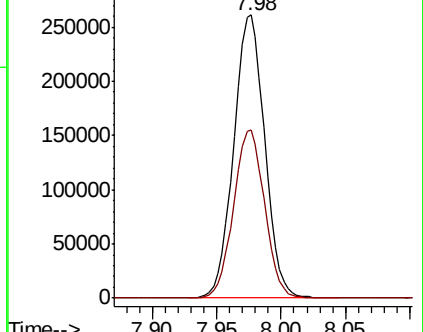
91 100

92 59.3 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU040632.D (-1970) (-)

Ion 92.00 (91.70 to 92.70): VU040632.D (-1970) (-)



#44

trans-1,3-Dichloropropene

Concen: 50.178 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU040632.D

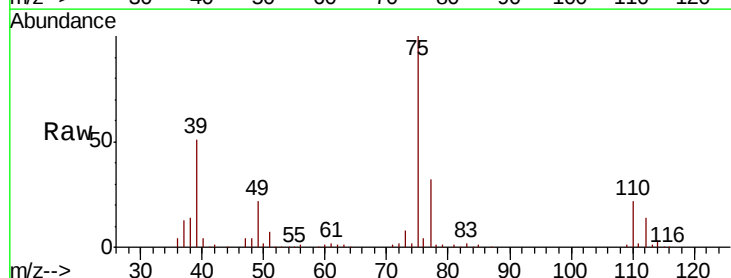
Acq: 10 Oct 2020 13:33

Tgt Ion: 75 Resp: 171936

Ion Ratio Lower Upper

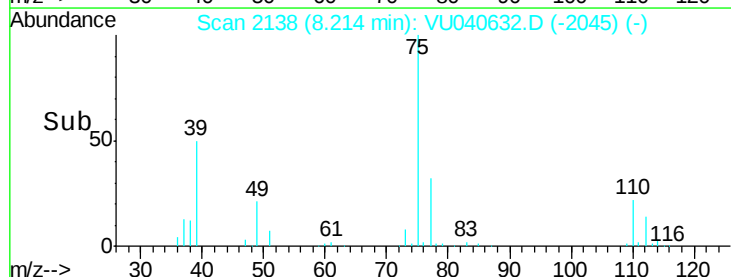
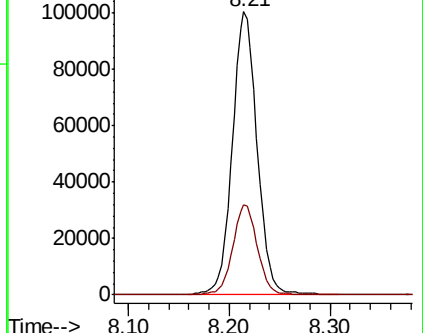
75 100

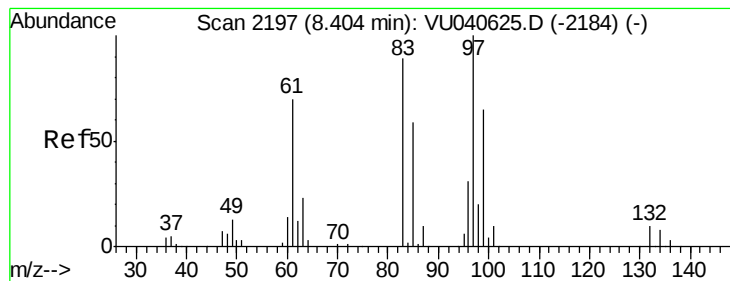
77 31.8 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU040632.D (-2045) (-)

Ion 77.00 (76.70 to 77.70): VU040632.D (-2045) (-)





#45

1,1,2-Trichloroethane

Concen: 50.325 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD050213

Tot Ion: 97 Resp: 104684

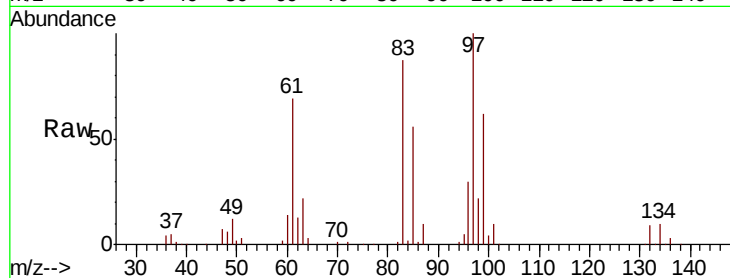
Ion Ratio Lower Upper

97 100

99 62.4 42.7 79.3

83 87.2 61.0 113.4

85 56.2 39.8 73.8



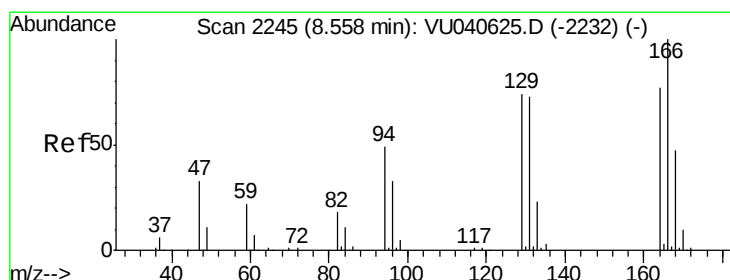
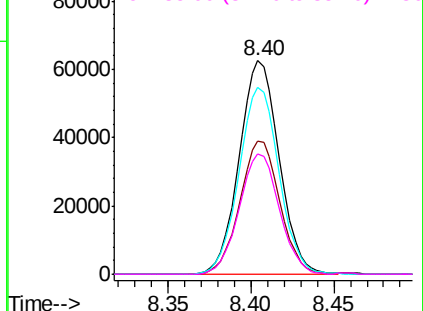
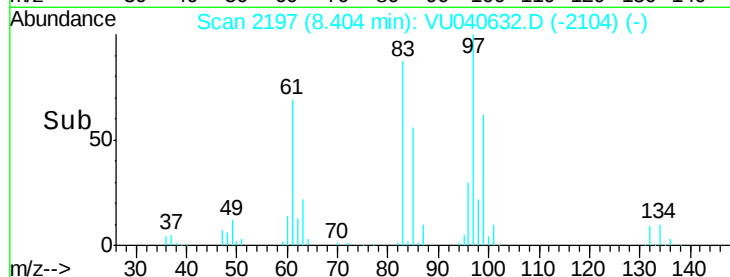
Abundance

Ion 97.00 (96.70 to 97.70): VU040632.D (-2104) (-)

Ion 99.00 (98.70 to 99.70): VU040632.D (-2104) (-)

Ion 83.00 (82.70 to 83.70): VU040632.D (-2104) (-)

Ion 85.00 (84.70 to 85.70): VU040632.D (-2104) (-)



#46

Tetrachloroethene

Concen: 50.506 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Tgt Ion: 164 Resp: 79498

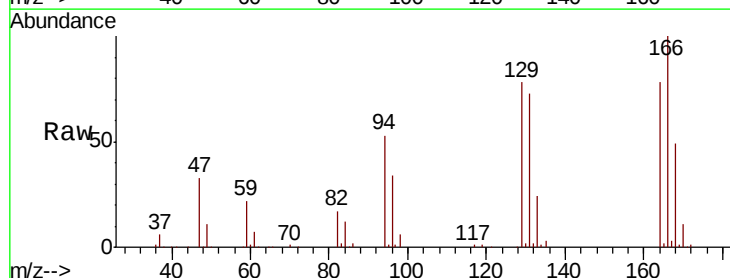
Ion Ratio Lower Upper

164 100

129 100.0 67.4 125.2

131 94.3 63.8 118.6

166 128.7 88.7 164.7



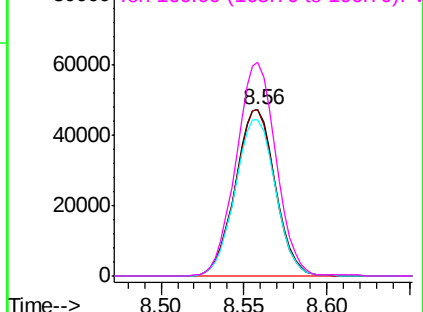
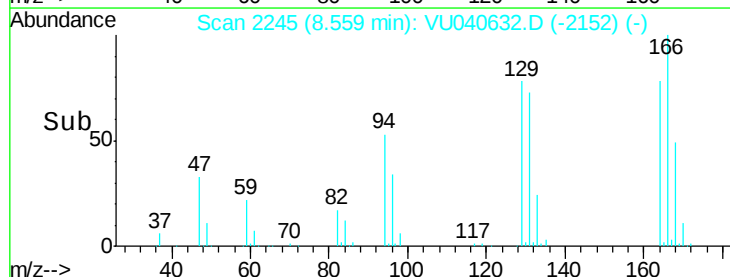
Abundance

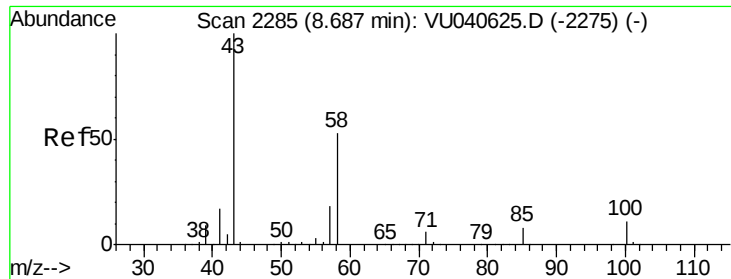
Ion 164.00 (163.70 to 164.70): VU040632.D (-2152) (-)

Ion 129.00 (128.70 to 129.70): VU040632.D (-2152) (-)

Ion 131.00 (130.70 to 131.70): VU040632.D (-2152) (-)

Ion 166.00 (165.70 to 166.70): VU040632.D (-2152) (-)

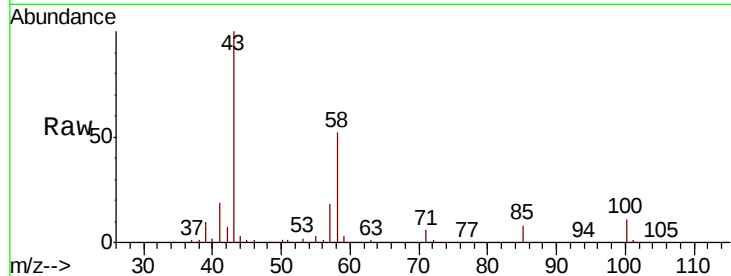




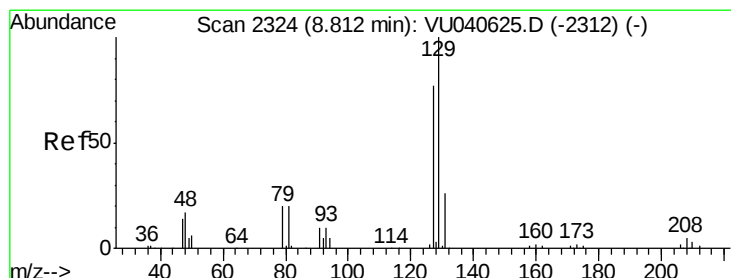
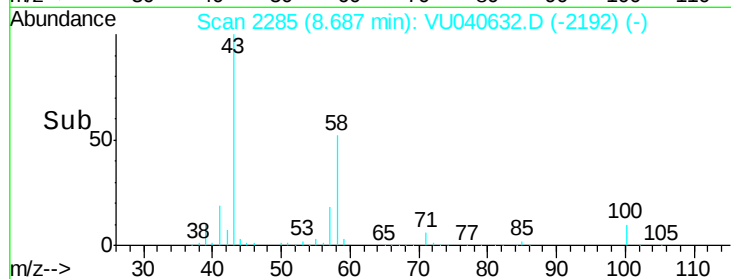
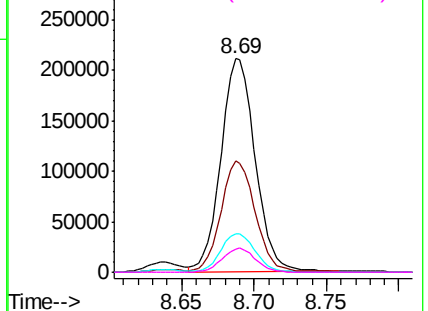
#48
2-Hexanone
Concen: 116.202 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

Instrument :
MSVOA_U
ClientSampleId :
VSTD050213

Tot Ion: 43 Resp: 346051
Ion Ratio Lower Upper
43 100
58 51.9 40.6 60.8
57 18.4 14.3 21.5
100 11.1 8.5 12.7

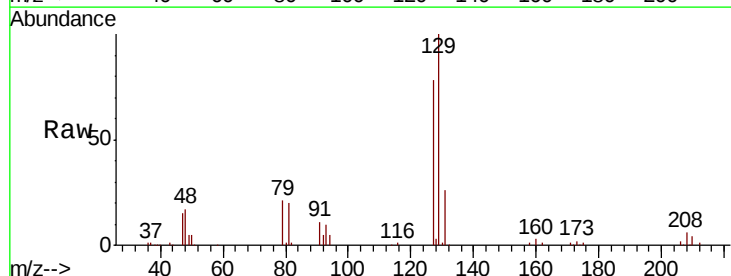


Abundance Ion 43.00 (42.70 to 43.70): VU040632.D (-2192) (-)
Ion 58.00 (57.70 to 58.70): VU040632.D (-2192) (-)
Ion 57.00 (56.70 to 57.70): VU040632.D (-2192) (-)
Ion 100.00 (99.70 to 100.70): VU040632.D (-2192) (-)

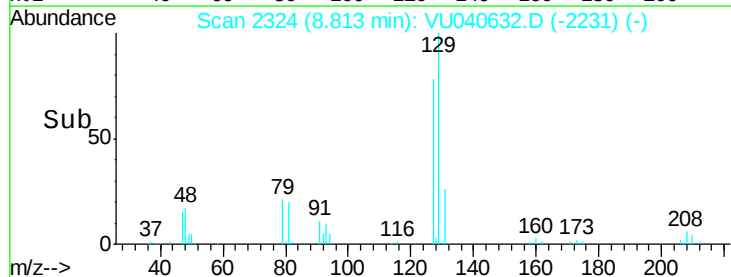
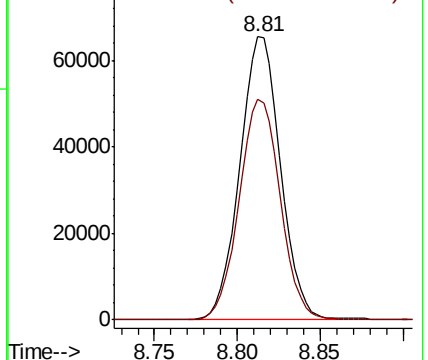


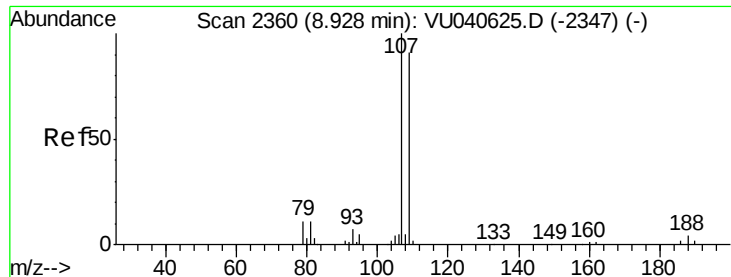
#49
Dibromochloromethane
Concen: 49.311 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

Tgt Ion: 129 Resp: 112004
Ion Ratio Lower Upper
129 100
127 78.1 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): VU040632.D (-2231) (-)
Ion 127.00 (126.70 to 127.70): VU040632.D (-2231) (-)

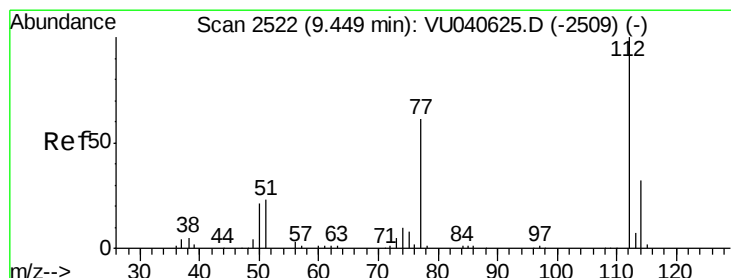
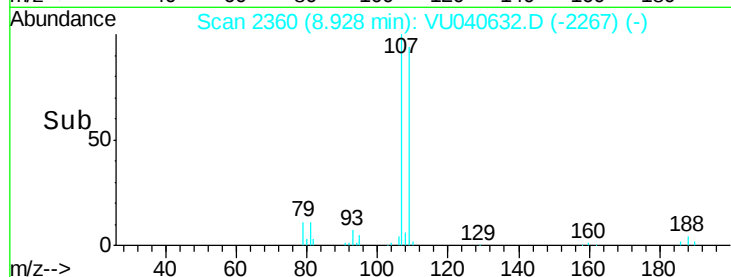
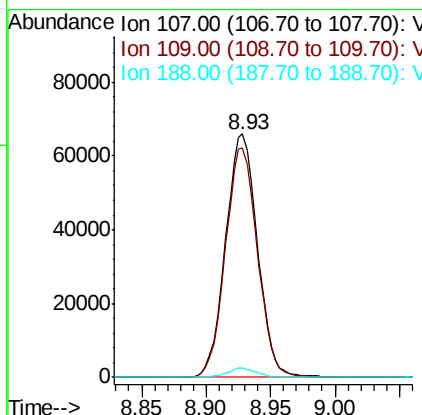
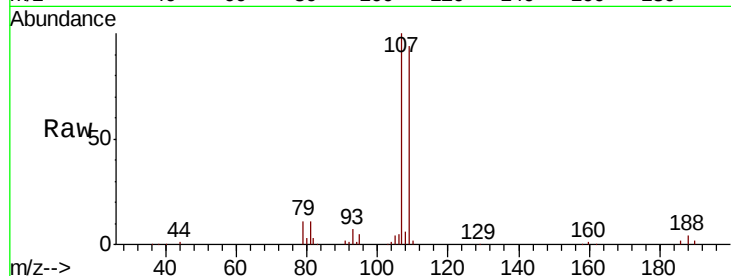




#50
1,2-Dibromoethane
Concen: 51.336 ug/L
RT: 8.93 min Scan# 2360
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

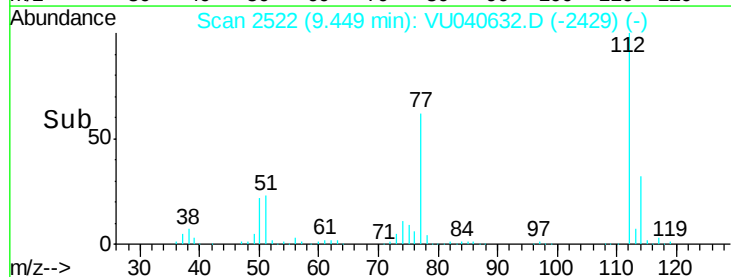
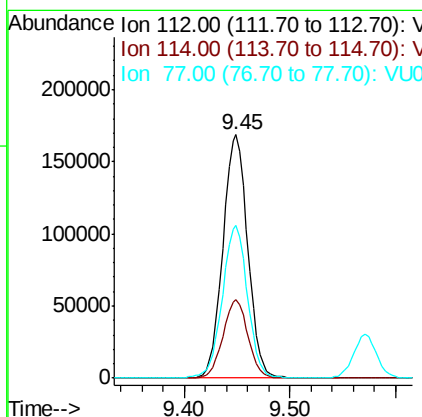
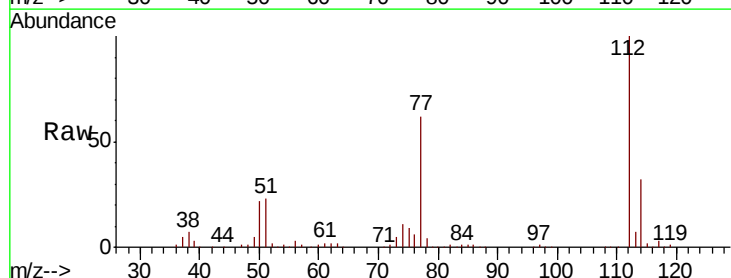
Instrument :
MSVOA_U
ClientSampleId :
VSTD050213

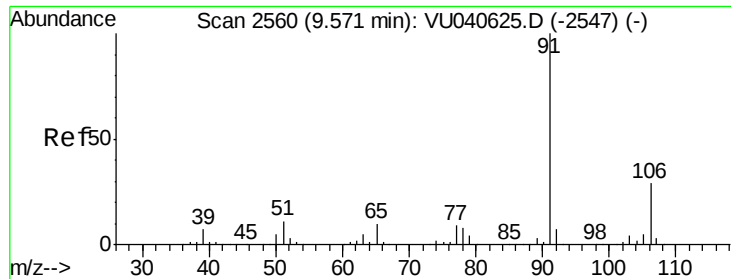
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	67.8	125.8
188	3.8	2.8	4.2



#51
Chlorobenzene
Concen: 48.453 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.1	41.1
77	62.5	50.4	75.6





#52

Ethylbenzene

Concen: 50.504 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

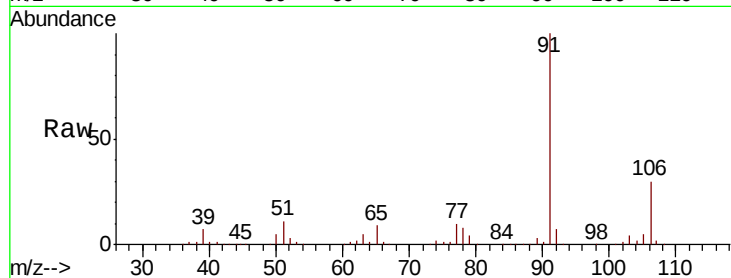
VSTD050213

Tot Ion: 91 Resp: 483955

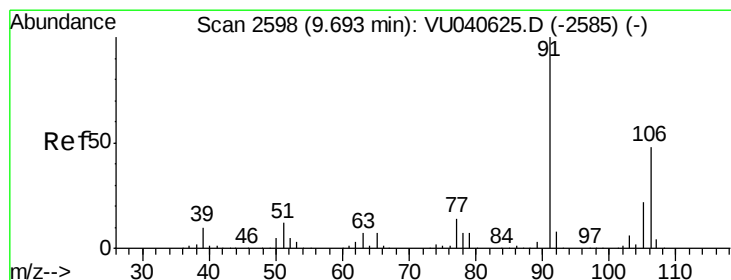
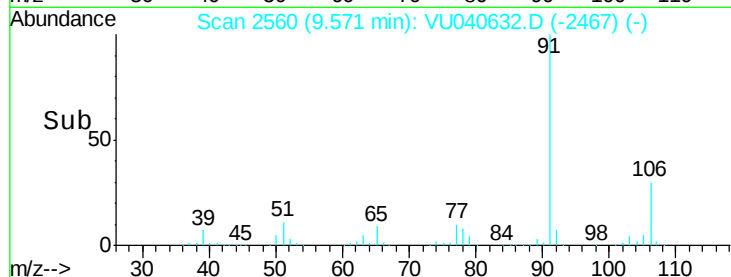
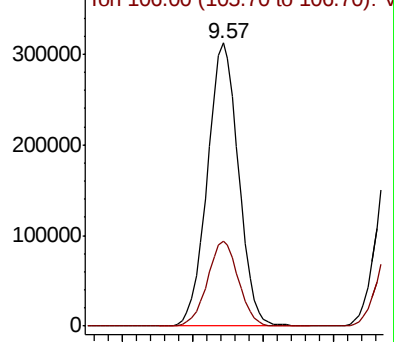
Ion Ratio Lower Upper

91 100

106 30.1 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU040632.D (-2467) (-)



#53

m,p-Xylene

Concen: 51.540 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040632.D

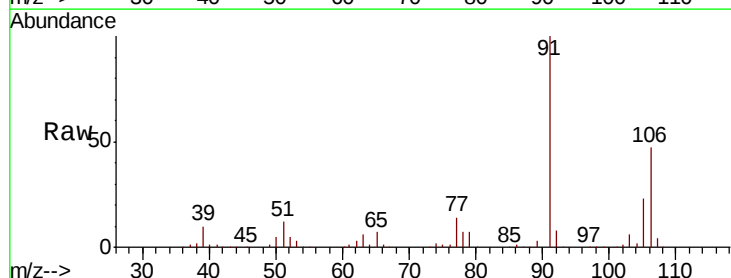
Acq: 10 Oct 2020 13:33

Tgt Ion: 106 Resp: 181866

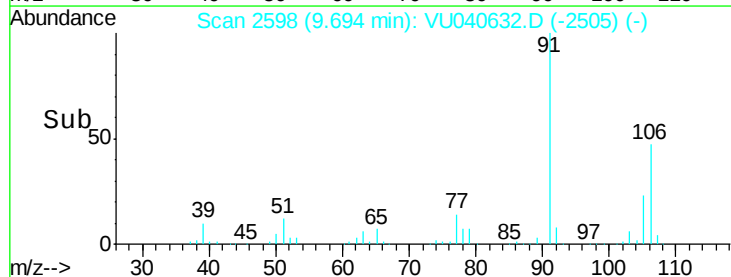
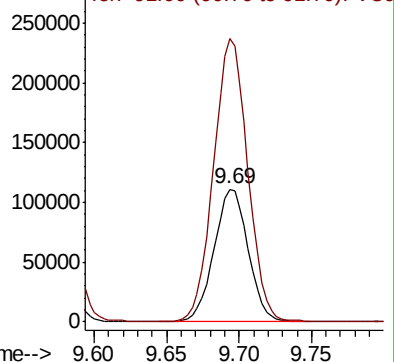
Ion Ratio Lower Upper

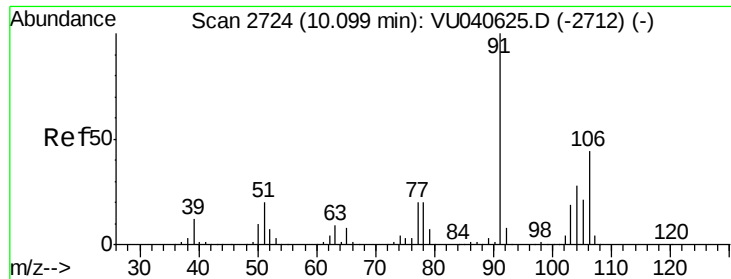
106 100

91 212.9 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): VU040632.D (-2505) (-)





#54

o-xylene

Concen: 51.938 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

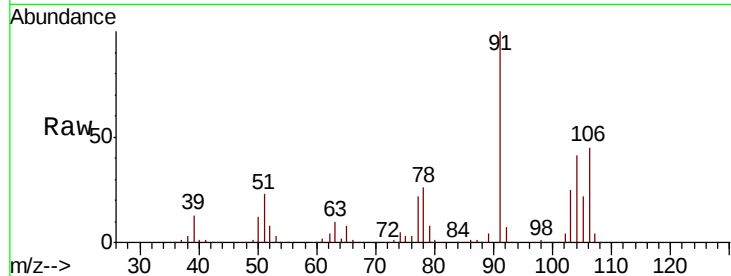
VSTD050213

Tot Ion:106 Resp: 174367

Ion Ratio Lower Upper

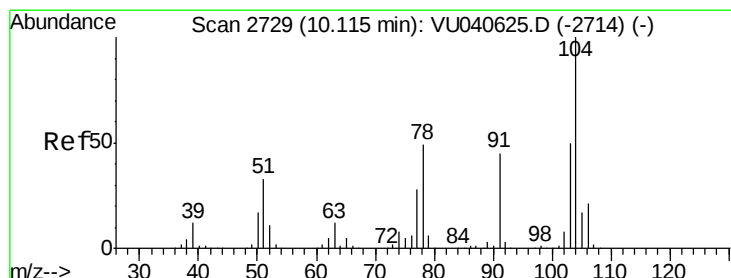
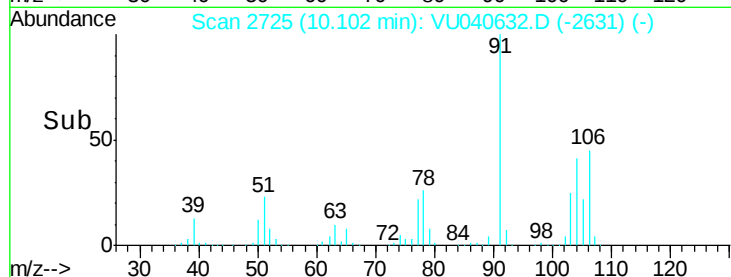
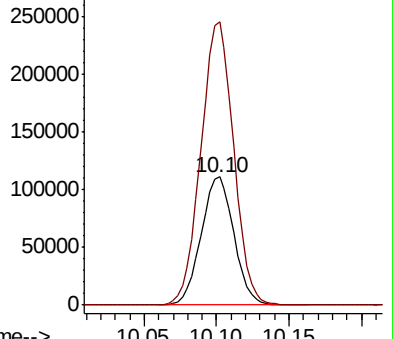
106 100

91 220.6 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.825 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU040632.D

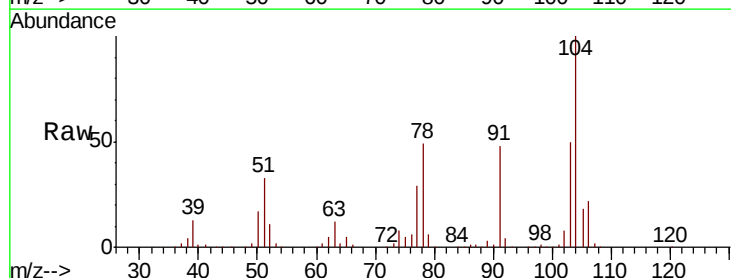
Acq: 10 Oct 2020 13:33

Tgt Ion:104 Resp: 312370

Ion Ratio Lower Upper

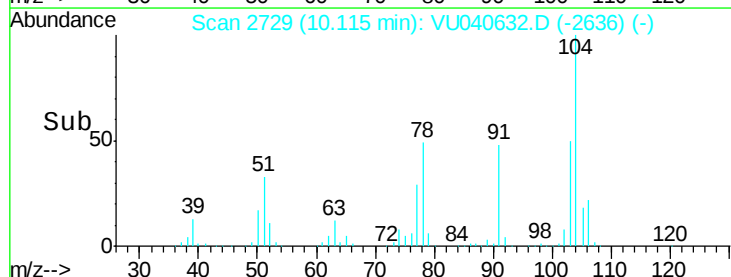
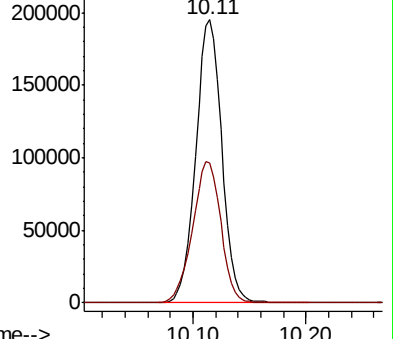
104 100

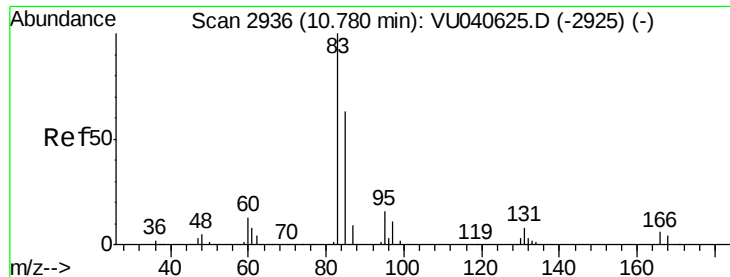
78 49.3 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 50.681 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD050213

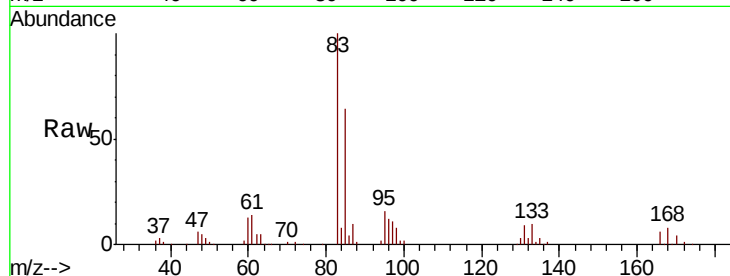
Tot Ion: 83 Resp: 186432

Ion Ratio Lower Upper

83 100

85 63.9 44.2 82.2

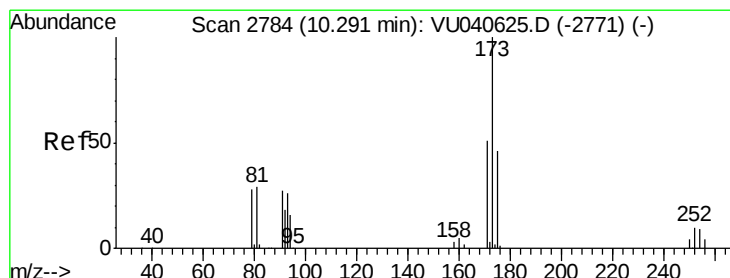
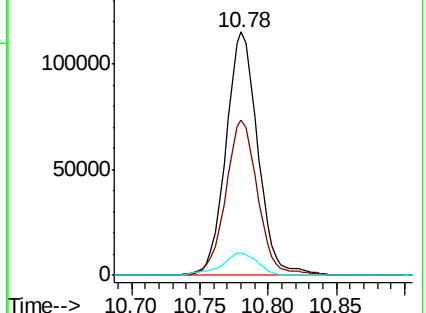
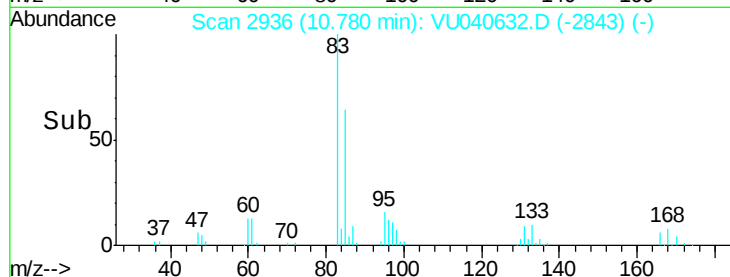
131 9.1 7.1 10.7



Abundance Ion 83.00 (82.70 to 83.70): VU040632.D (-2925) (-)

Ion 85.00 (84.70 to 85.70): VU040632.D (-2925) (-)

Ion 131.00 (130.70 to 131.70): VU040632.D (-2925) (-)



#59

Bromoform

Concen: 47.627 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

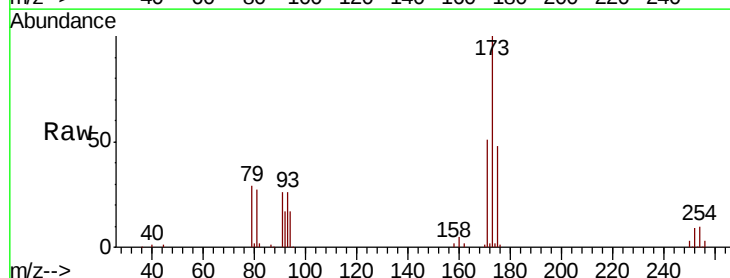
Tgt Ion: 173 Resp: 82860

Ion Ratio Lower Upper

173 100

175 47.8 38.5 57.7

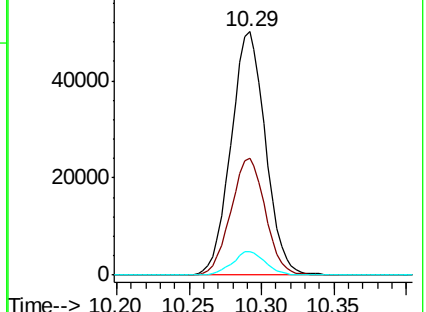
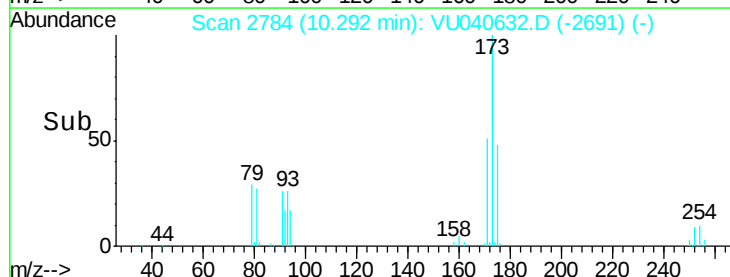
254 9.2 7.0 10.6

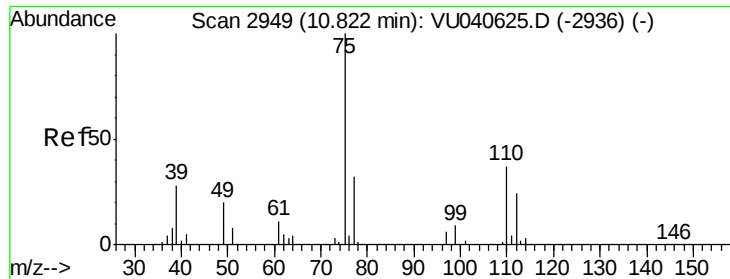


Abundance Ion 173.00 (172.70 to 173.70): VU040632.D (-2771) (-)

Ion 175.00 (174.70 to 175.70): VU040632.D (-2771) (-)

Ion 254.00 (253.70 to 254.70): VU040632.D (-2771) (-)

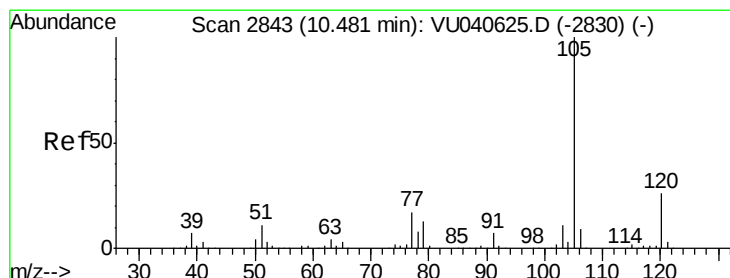
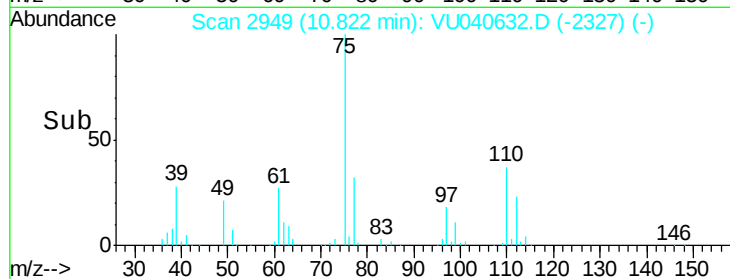
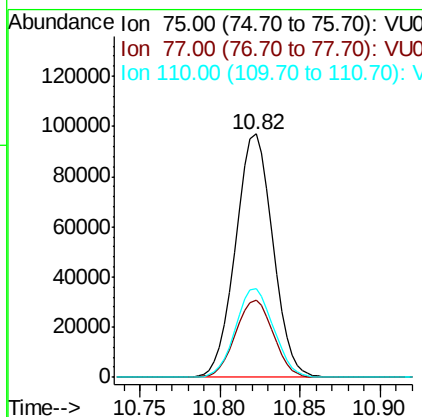
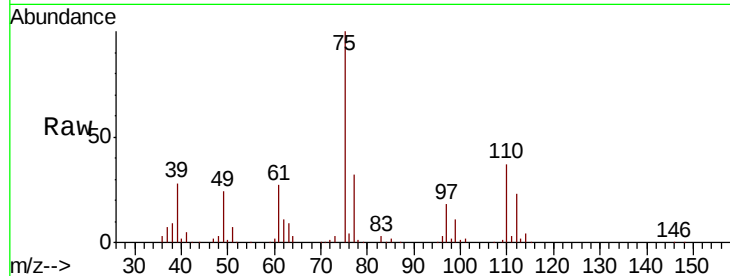




#60
1,2,3-Trichloropropane
Concen: 47.714 ug/L
RT: 10.82 min Scan# 2949
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

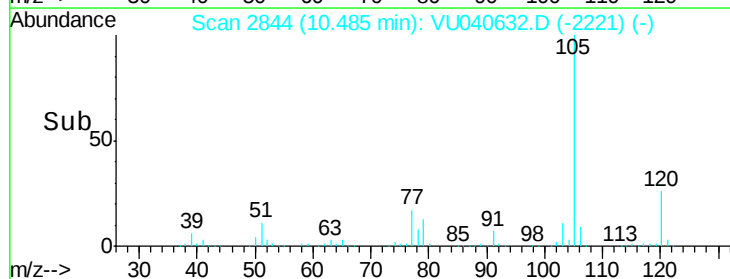
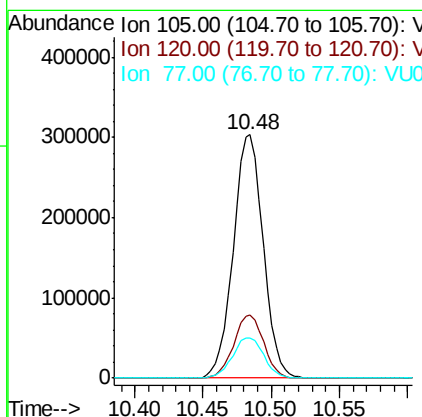
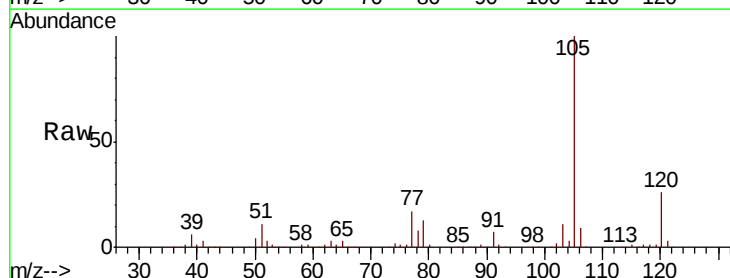
Instrument :
MSVOA_U
ClientSampleId :
VSTD050213

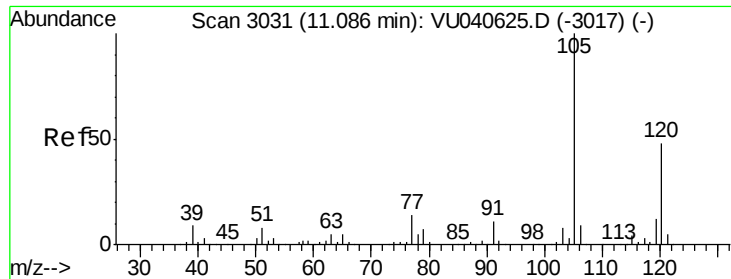
Tot Ion: 75 Resp: 153839
Ion Ratio Lower Upper
75 100
77 32.2 26.4 39.6
110 37.3 30.1 45.1



#61
Isopropylbenzene
Concen: 48.391 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. 0.00 min
Lab File: VU040632.D
Acq: 10 Oct 2020 13:33

Tgt Ion: 105 Resp: 461285
Ion Ratio Lower Upper
105 100
120 26.0 20.7 31.1
77 17.3 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 49.753 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

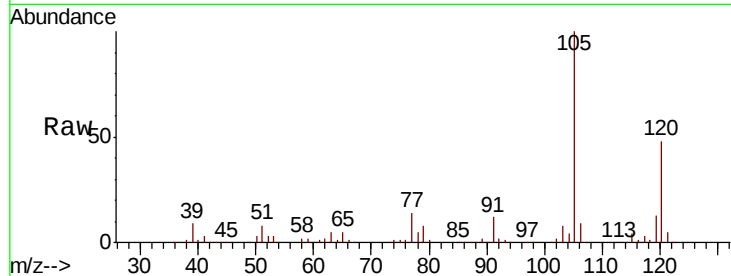
VSTD050213

Tot Ion:105 Resp: 389666

Ion Ratio Lower Upper

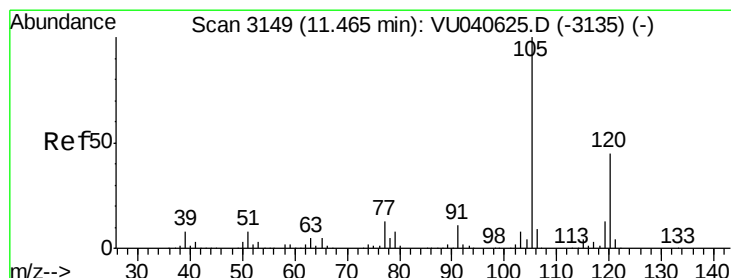
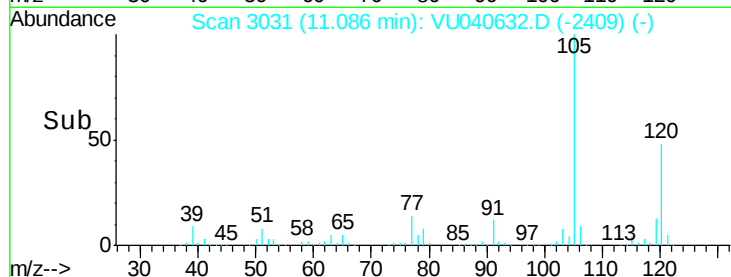
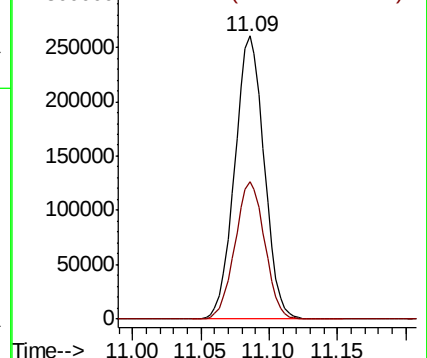
105 100

120 49.1 38.6 58.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 50.657 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. 0.00 min

Lab File: VU040632.D

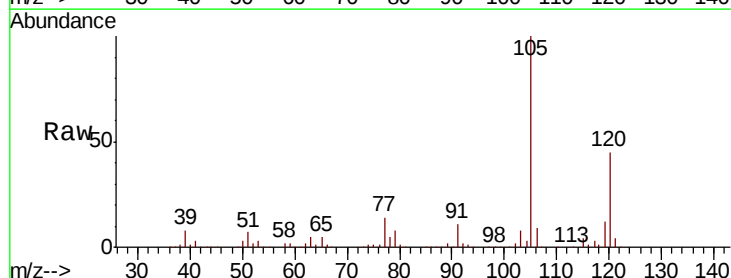
Acq: 10 Oct 2020 13:33

Tgt Ion:105 Resp: 402369

Ion Ratio Lower Upper

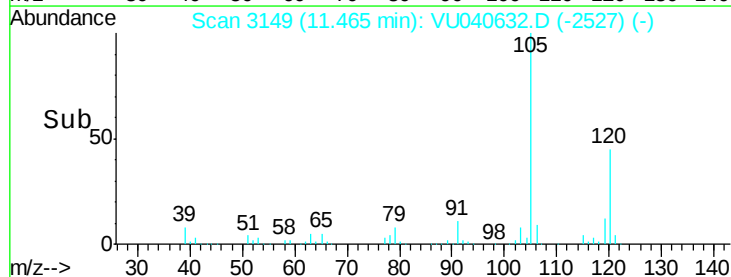
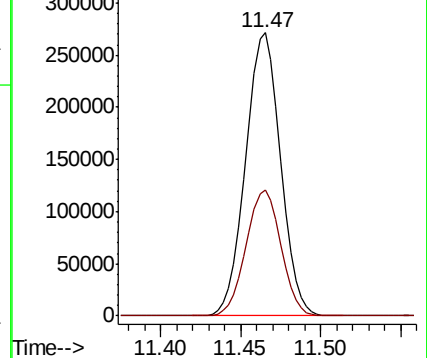
105 100

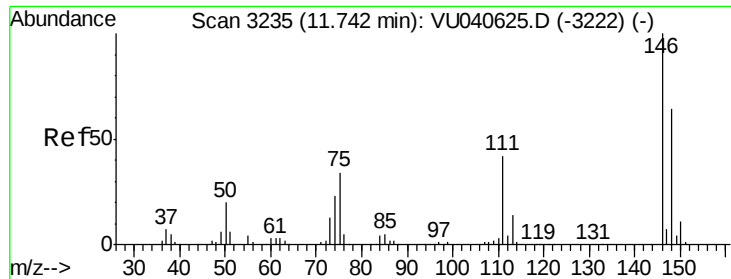
120 44.5 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

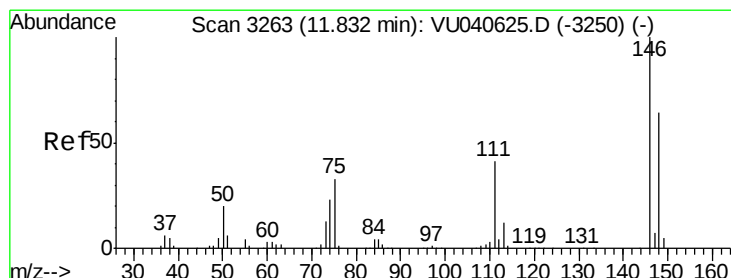
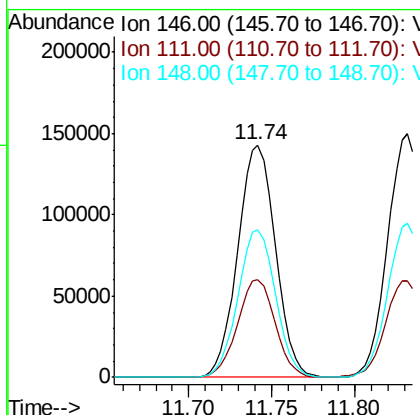
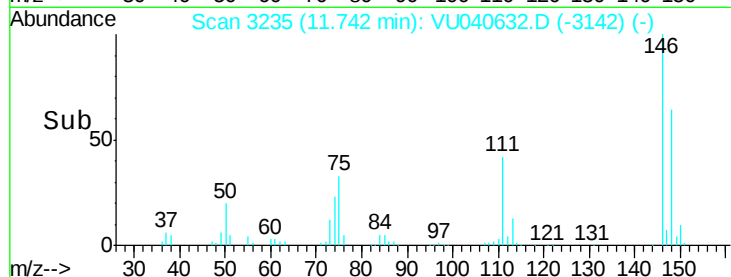
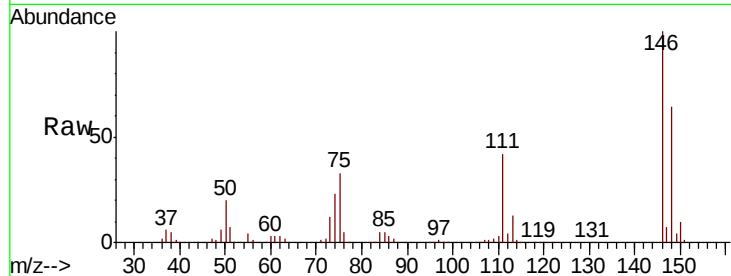




#64
 1,3-Dichlorobenzene
 Concen: 48.633 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

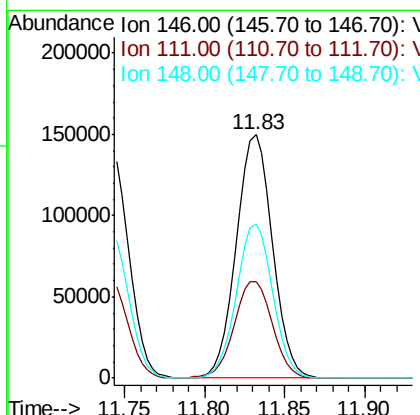
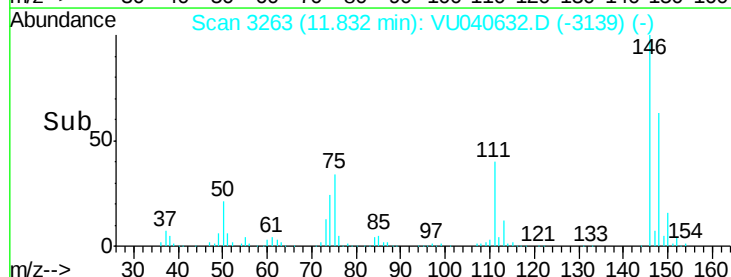
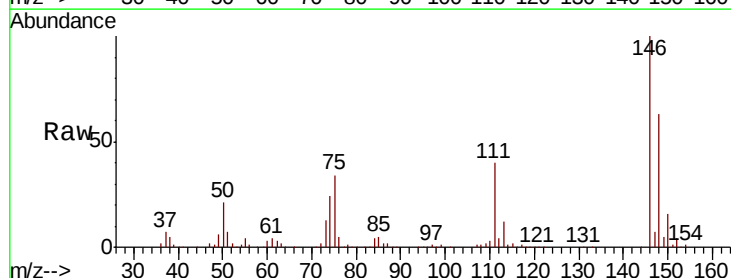
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050213

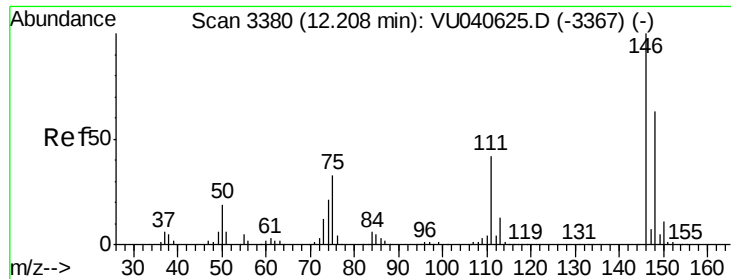
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	30.8	57.2
148	63.7	45.4	84.2



#65
 1,4-Dichlorobenzene
 Concen: 47.185 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	28.7	53.3
148	63.3	44.1	81.9

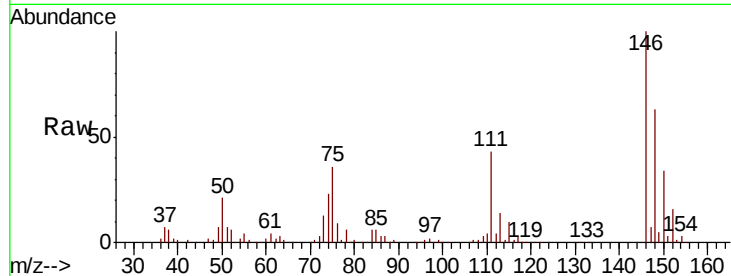




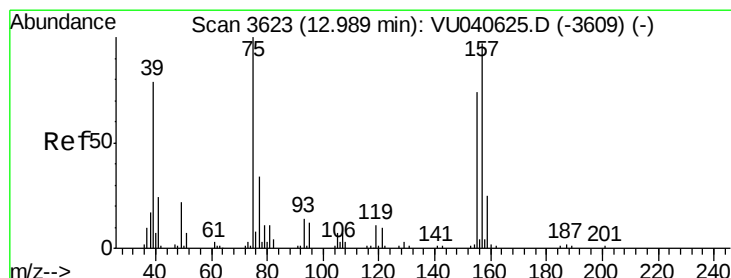
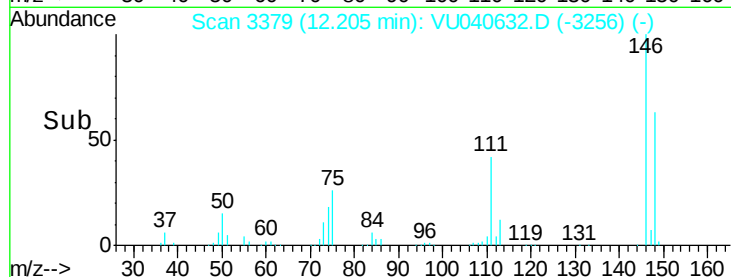
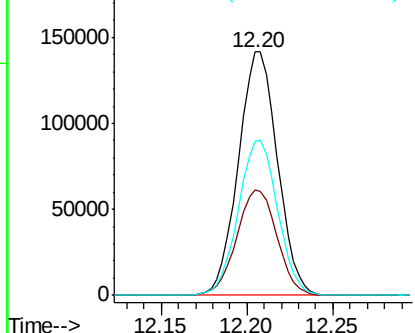
#67
 1,2-Dichlorobenzene
 Concen: 48.080 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. -0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050213

Tot Ion:146 Resp: 223873
 Ion Ratio Lower Upper
 146 100
 111 43.5 35.7 53.5
 148 63.3 50.6 75.8

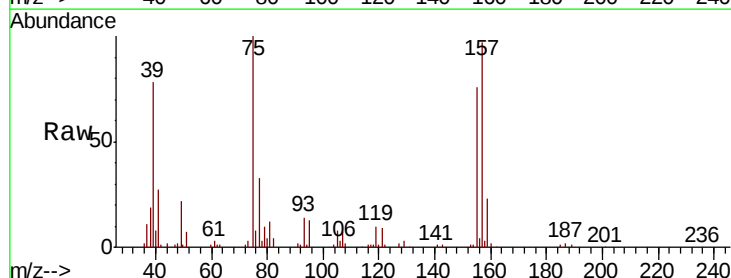


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

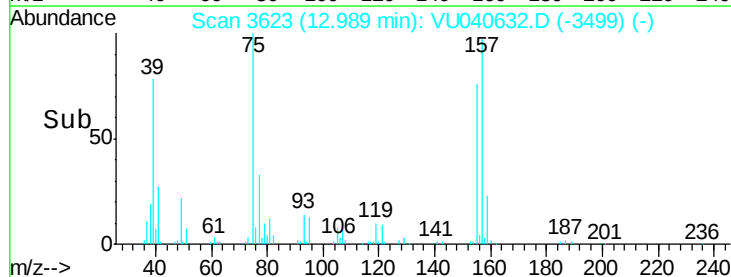
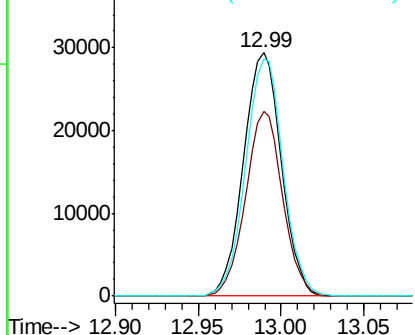


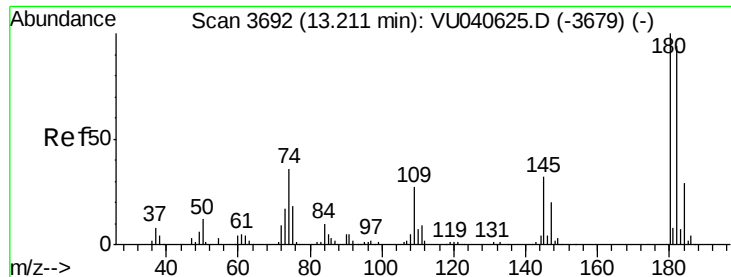
#68
 1,2-Dibromo-3-chloropropane
 Concen: 51.617 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Tgt Ion: 75 Resp: 46759
 Ion Ratio Lower Upper
 75 100
 155 76.0 61.0 91.6
 157 97.4 73.5 110.3



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

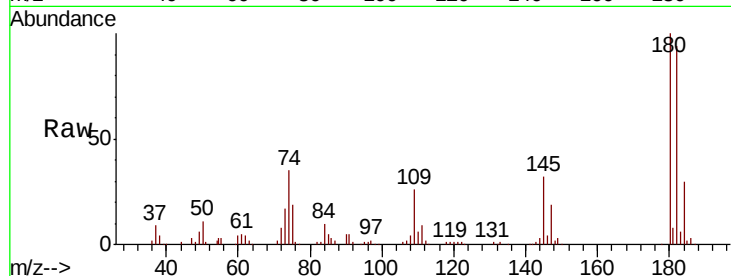




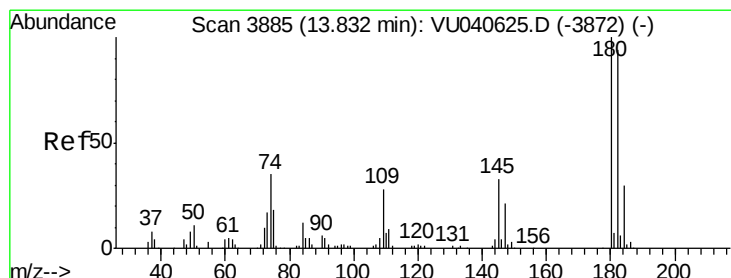
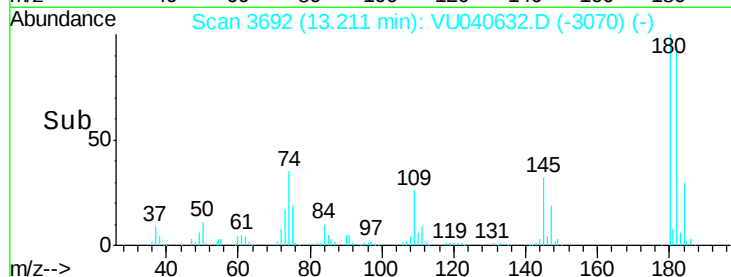
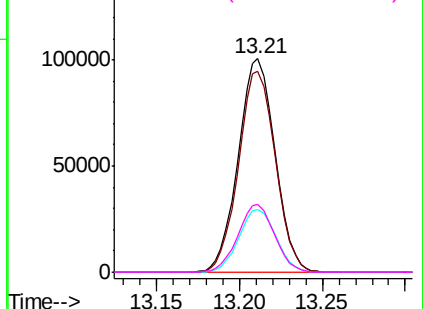
#69
 1,3,5-Trichlorobenzene
 Concen: 50.977 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050213

Tot Ion:180	Resp:	155247
Ion Ratio	Lower	Upper
180	100	
182	94.2	76.9 115.3
184	29.7	24.2 36.2
145	31.5	25.4 38.2

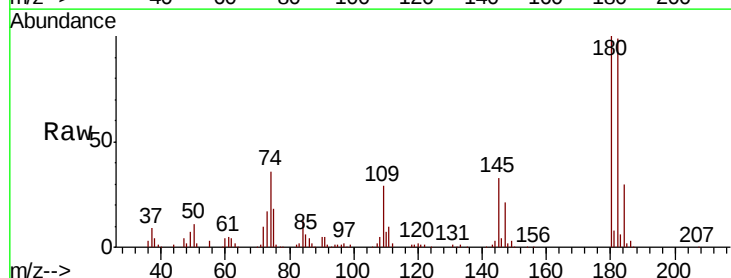


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

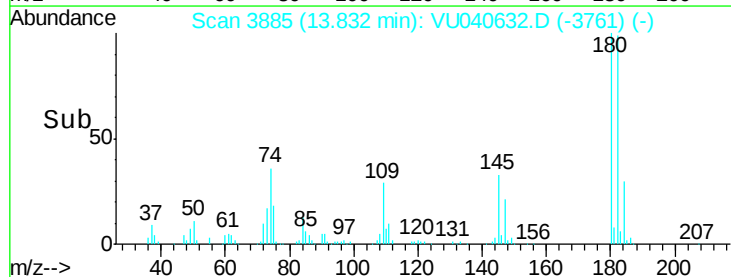
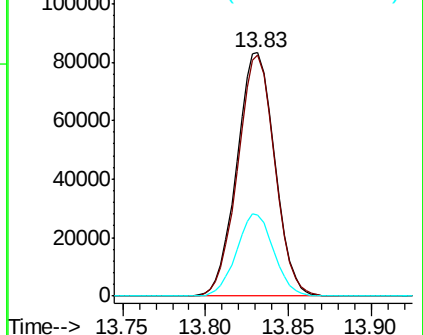


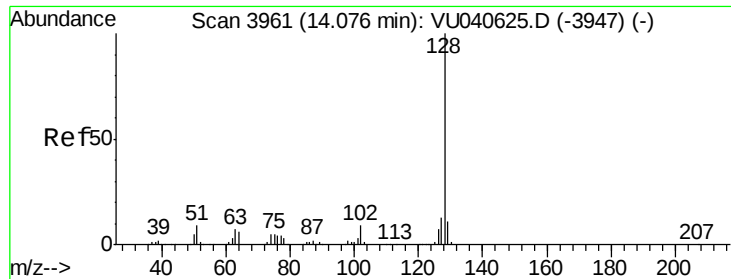
#70
 1,2,4-trichlorobenzene
 Concen: 50.134 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040632.D
 Acq: 10 Oct 2020 13:33

Tgt Ion:180	Resp:	132331
Ion Ratio	Lower	Upper
180	100	
182	96.5	75.0 112.6
145	33.2	25.9 38.9



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





#71

Naphthalene

Concen: 52.349 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD050213

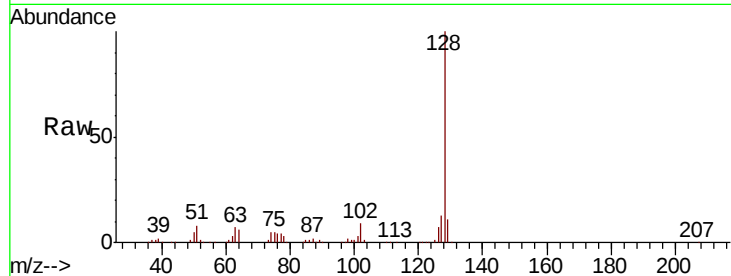
Tot Ion:128 Resp: 427110

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

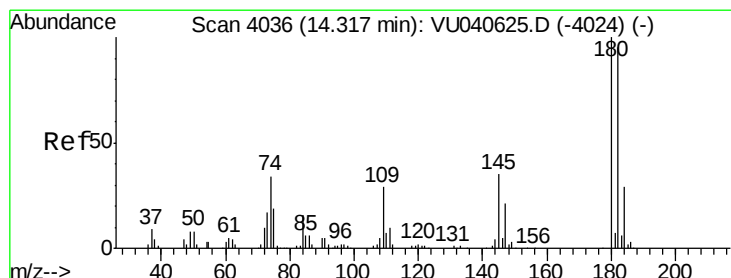
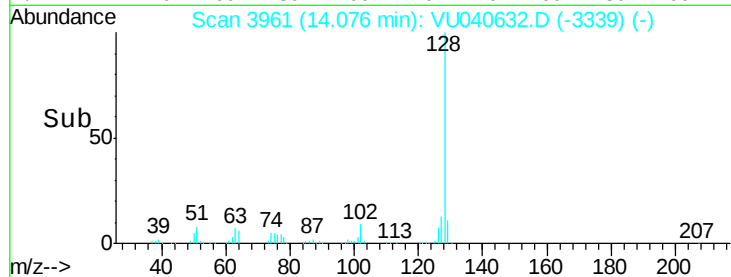
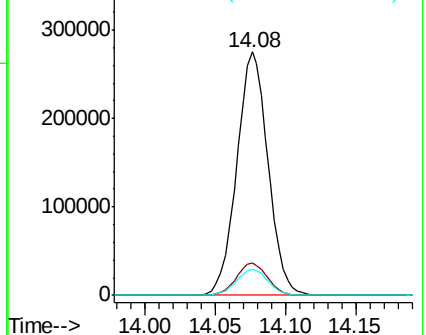
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 52.725 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU040632.D

Acq: 10 Oct 2020 13:33

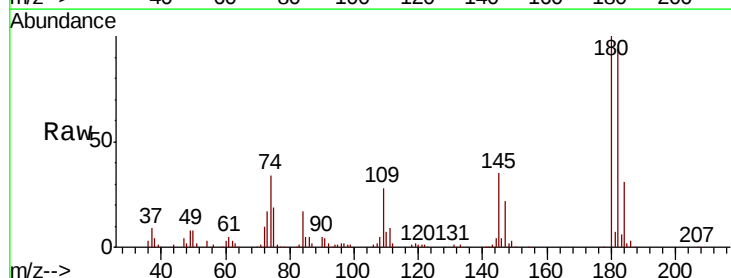
Tgt Ion:180 Resp: 138142

Ion Ratio Lower Upper

180 100

182 93.9 77.7 116.5

145 34.1 28.4 42.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

