

Data File : VU036689.D
Acq On : 06 Feb 2020 16:35
Operator : JC/MD
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD050107

Quant Time: Feb 07 04:55:48 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 07 04:51:54 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	265904	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	248987	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	114281	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	85158	48.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.04%
7) Chloroethane-d5	1.93	69	78792	47.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.84%
11) 1,1-Dichloroethene-d2	2.59	63	166823	49.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.66%
21) 2-Butanone-d5	4.68	46	154898	102.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.38%
24) Chloroform-d	5.11	84	163628	50.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.96%
26) 1,2-Dichloroethane-d4	5.75	65	108798	49.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.12%
32) Benzene-d6	5.77	84	331243	50.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.20%
36) 1,2-Dichloropropane-d6	6.73	67	108393	49.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.76%
41) Toluene-d8	7.93	98	299507	49.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.92%
43) trans-1,3-Dichloropropene-	8.21	79	52882	50.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.64%
47) 2-Hexanone-d5	8.67	63	123117	99.27	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.27%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	159779	49.89	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.78%
66) 1,2-Dichlorobenzene-d4	12.21	152	104488	50.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.64%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	94055	51.196	ug/L 99
3) Chloromethane	1.54	50	107937	49.579	ug/L 100
5) Vinyl chloride	1.62	62	121243	51.722	ug/L 97
6) Bromomethane	1.87	94	83051	56.505	ug/L 99
8) Chloroethane	1.95	64	74847	50.309	ug/L 98
9) Trichlorofluoromethane	2.16	101	142296	51.084	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	84863	50.864	ug/L 98
12) 1,1-Dichloroethene	2.60	96	83772	51.575	ug/L 95
13) Acetone	2.66	43	151415	94.212	ug/L 100
14) Carbon disulfide	2.82	76	246261	50.734	ug/L 100
15) Methyl Acetate	2.99	43	117497	50.569	ug/L 100
16) Methylene chloride	3.08	84	99931	49.846	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	88488	51.201	ug/L 99
18) Methyl tert-butyl Ether	3.41	73	306586	51.113	ug/L 100
19) 1,1-Dichloroethane	3.92	63	178037	51.702	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	102226	51.913	ug/L 97
22) 2-Butanone	4.76	43	185523	97.260	ug/L 99

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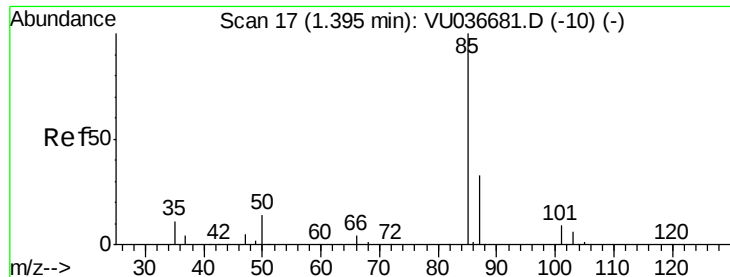
Quant Time: Feb 07 04:55:48 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	46440	50.327	ug/L	98
25) Chloroform	5.13	83	171423	51.187	ug/L	99
27) 1,2-Dichloroethane	5.84	62	143880	51.088	ug/L	99
29) Cyclohexane	5.43	56	162331	50.755	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	137905	52.140	ug/L	99
31) Carbon tetrachloride	5.57	117	111647	52.133	ug/L	100
33) Benzene	5.82	78	392153	52.072	ug/L	100
34) Trichloroethene	6.58	95	96980	52.075	ug/L	98
35) Methylcyclohexane	6.80	83	170710	52.051	ug/L	99
37) 1,2-Dichloropropane	6.83	63	108117	53.240	ug/L	99
38) Bromodichloromethane	7.14	83	127266	51.571	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	169235	52.157	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	322312	100.455	ug/L	99
42) Toluene	8.00	91	422653	51.938	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	146922	51.832	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	95440	51.517	ug/L	98
46) Tetrachloroethene	8.58	164	65241	49.922	ug/L	97
48) 2-Hexanone	8.72	43	264270	100.969	ug/L	99
49) Dibromochloromethane	8.84	129	93517	51.610	ug/L	99
50) 1,2-Dibromoethane	8.95	107	101179	51.987	ug/L	99
51) Chlorobenzene	9.47	112	250728	51.168	ug/L	99
52) Ethylbenzene	9.60	91	460352	51.483	ug/L	99
53) m,p-Xylene	9.72	106	170590	51.716	ug/L	100
54) o-xylene	10.12	106	165764	50.728	ug/L	97
55) Styrene	10.14	104	283827	52.117	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.81	83	167729	50.244	ug/L	99
59) Bromoform	10.32	173	63446	50.251	ug/L	99
60) 1,2,3-Trichloropropane	10.85	75	134091	49.881	ug/L	99
61) Isopropylbenzene	10.51	105	442485	51.998	ug/L	100
62) 1,3,5-Trimethylbenzene	11.11	105	379199	51.975	ug/L	100
63) 1,2,4-Trimethylbenzene	11.49	105	378045	51.892	ug/L	100
64) 1,3-Dichlorobenzene	11.77	146	184834	51.649	ug/L	99
65) 1,4-Dichlorobenzene	11.86	146	186075	51.646	ug/L	99
67) 1,2-Dichlorobenzene	12.23	146	184832	51.012	ug/L	99
68) 1,2-Dibromo-3-chloropropan	13.01	75	39104	50.902	ug/L	97
69) 1,3,5-Trichlorobenzene	13.23	180	134121	54.047	ug/L	100
70) 1,2,4-trichlorobenzene	13.85	180	117513	56.790	ug/L	99
71) Naphthalene	14.10	128	410640	56.298	ug/L	99
72) 1,2,3-Trichlorobenzene	14.34	180	114605	55.592	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 51.196 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036689.D

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MSVOA_U

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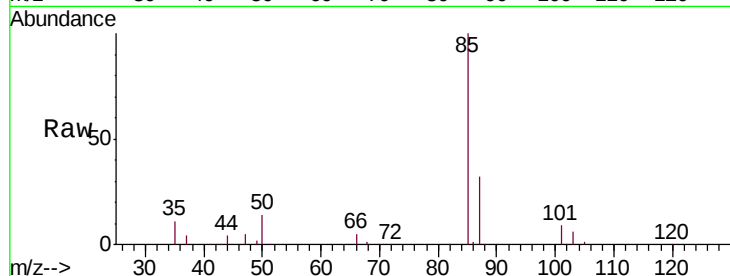
VSTD050107

Tgt Ion: 85 Resp: 94055

Ion Ratio Lower Upper

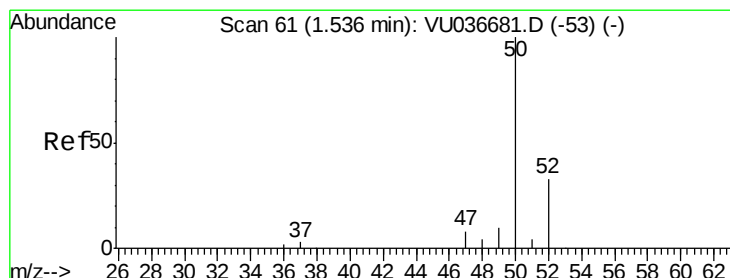
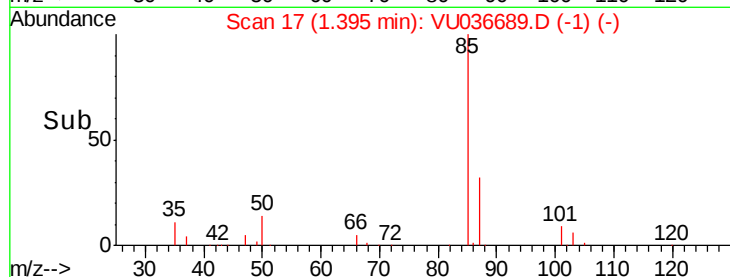
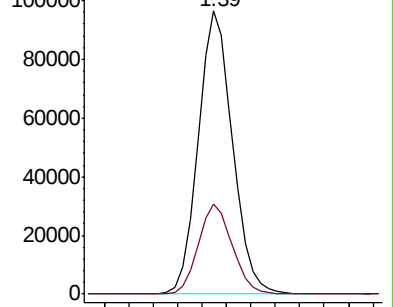
85 100

87 31.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036681.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU036681.D (-10) (-)



#3

Chloromethane

Concen: 49.579 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036689.D

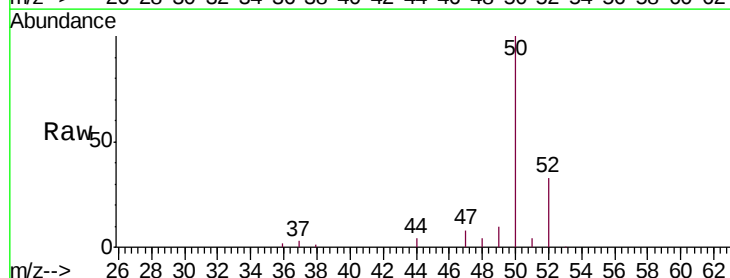
Acq: 06 Feb 2020 16:35

Tgt Ion: 50 Resp: 107937

Ion Ratio Lower Upper

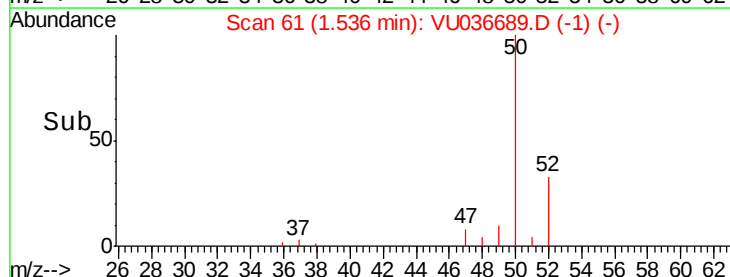
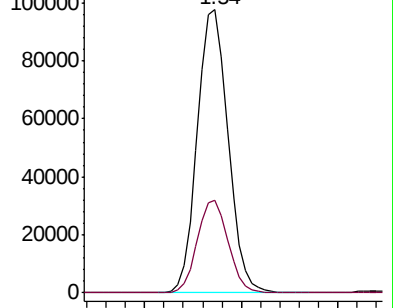
50 100

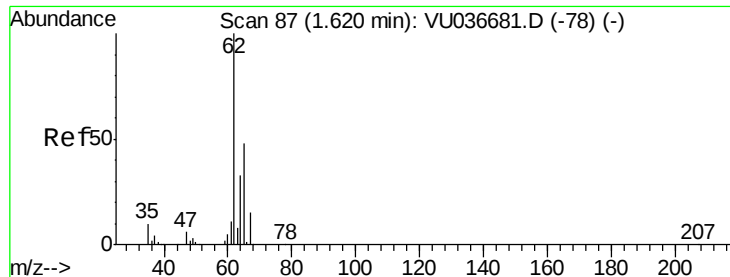
52 32.6 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036681.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036681.D (-53) (-)





#5

Vinyl chloride

Concen: 51.722 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

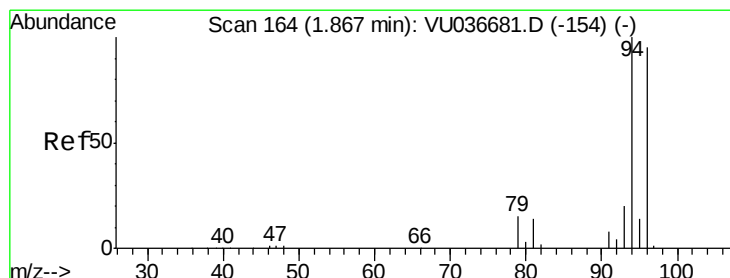
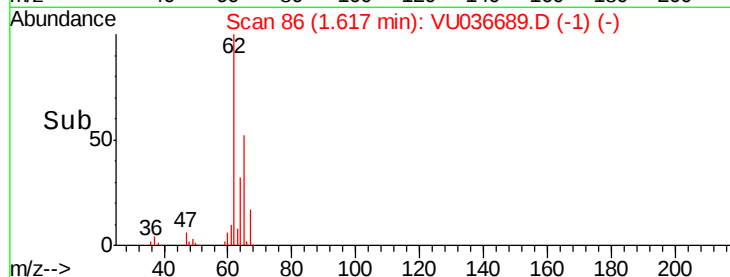
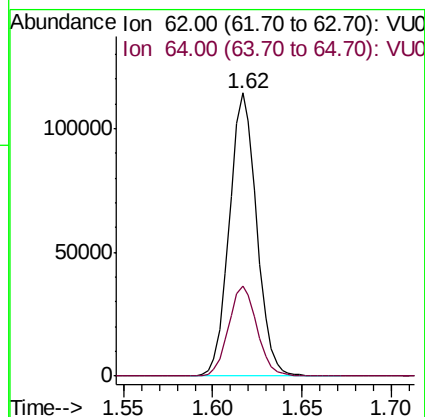
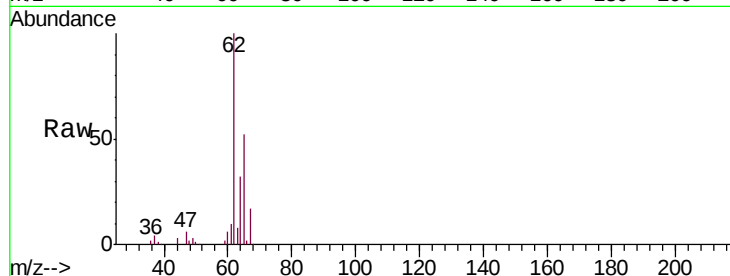
VSTD050107

Tgt Ion: 62 Resp: 121243

Ion Ratio Lower Upper

62 100

64 32.0 23.4 43.6



#6

Bromomethane

Concen: 56.505 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036689.D

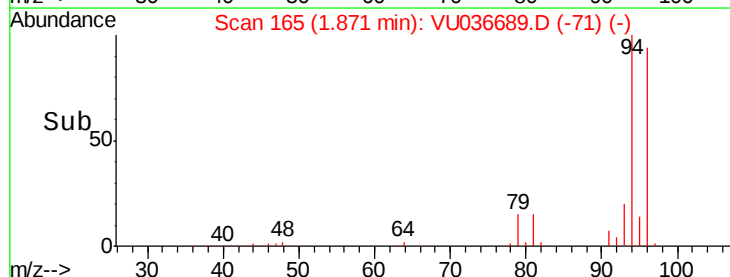
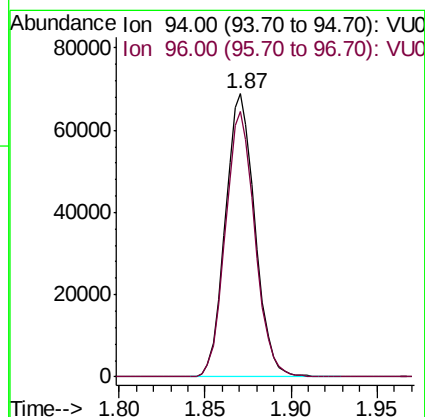
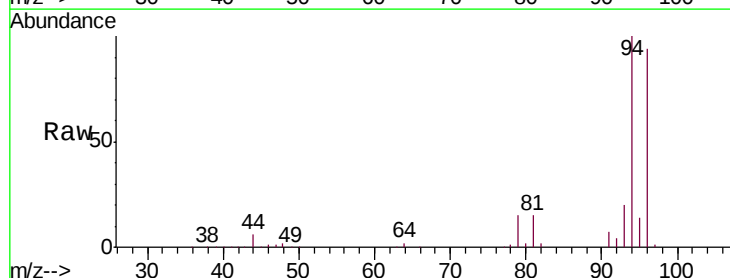
Acq: 06 Feb 2020 16:35

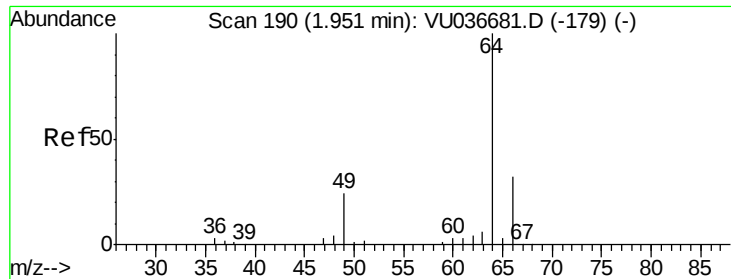
Tgt Ion: 94 Resp: 83051

Ion Ratio Lower Upper

94 100

96 94.0 66.3 123.1

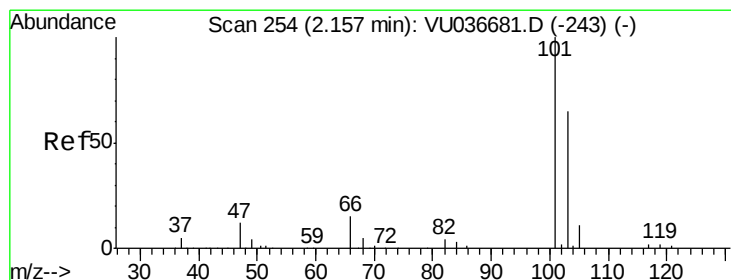
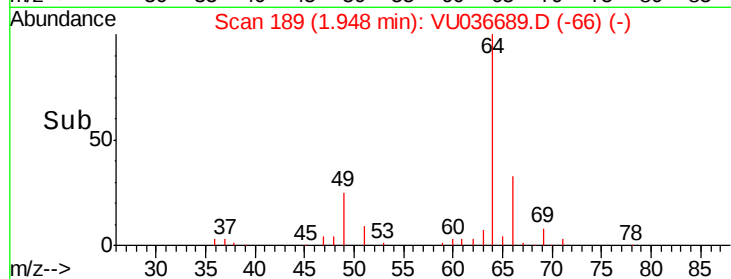
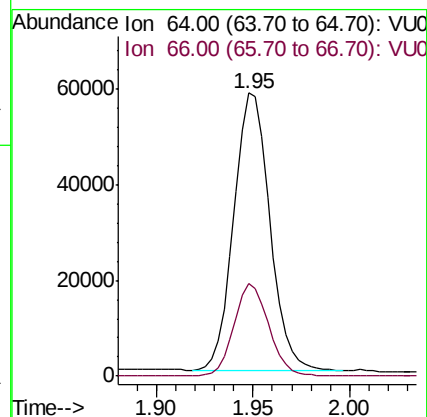
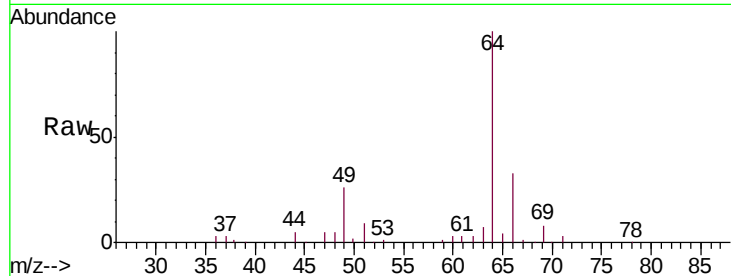




#8
Chloroethane
Concen: 50.309 ug/L
RT: 1.95 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

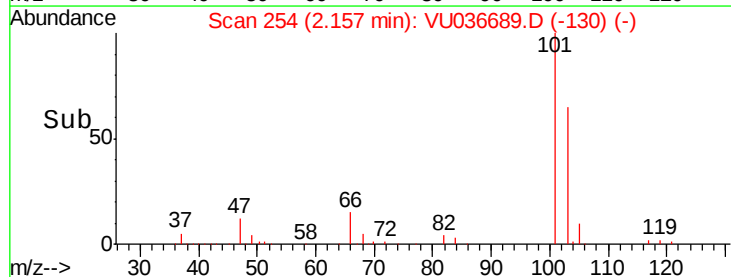
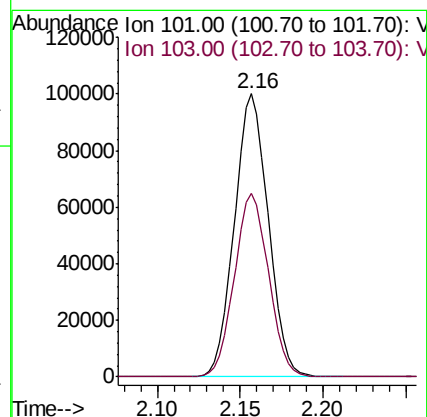
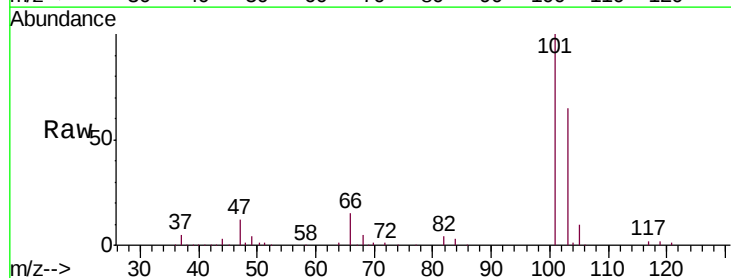
Instrument :
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VSTD050107

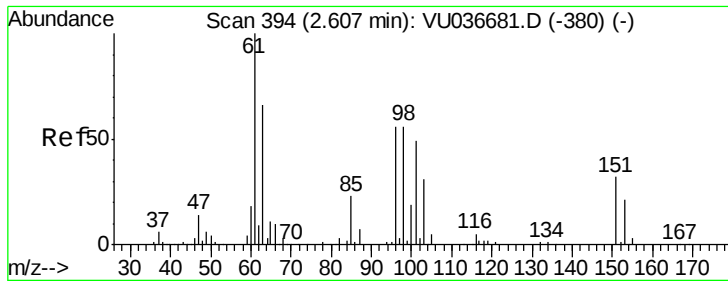
Tgt Ion: 64 Resp: 74847
Ion Ratio Lower Upper
64 100
66 32.5 22.1 41.1



#9
Trichlorofluoromethane
Concen: 51.084 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Tgt Ion: 101 Resp: 142296
Ion Ratio Lower Upper
101 100
103 65.3 51.6 77.4





#10

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

Concen: 50.864 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD050107

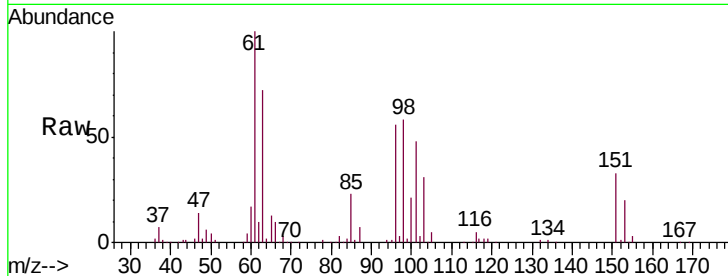
Tgt Ion: 101 Resp: 84863

Ion Ratio Lower Upper

101 100

85 46.3 36.5 54.7

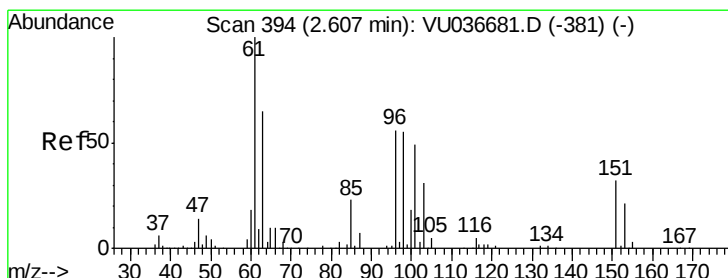
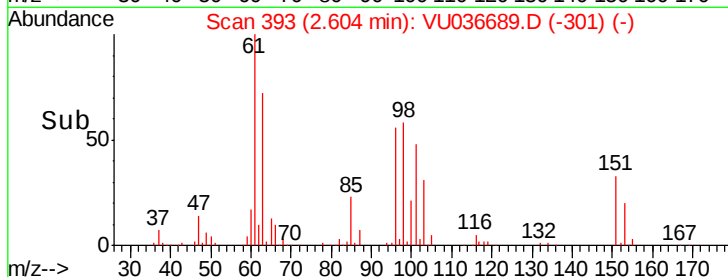
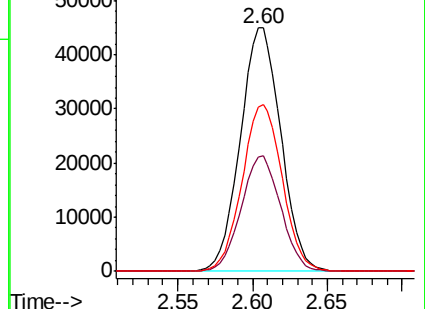
151 67.7 52.6 78.8



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: 51.575 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

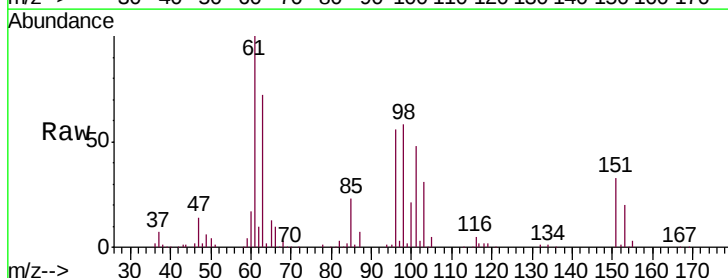
Tgt Ion: 96 Resp: 83772

Ion Ratio Lower Upper

96 100

61 179.8 124.4 231.0

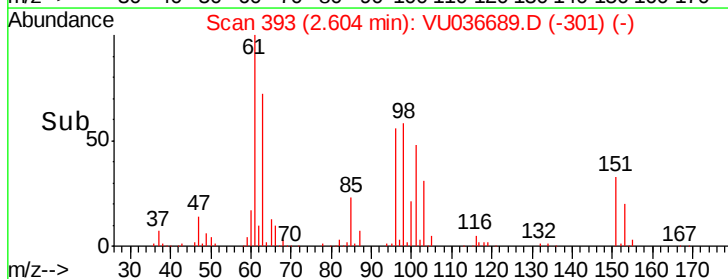
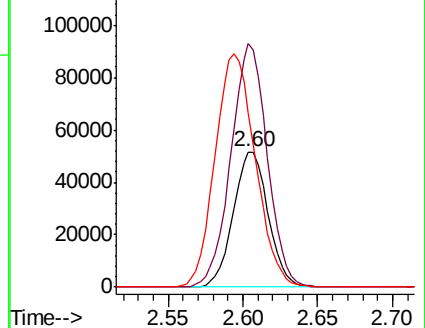
63 129.2 83.4 155.0

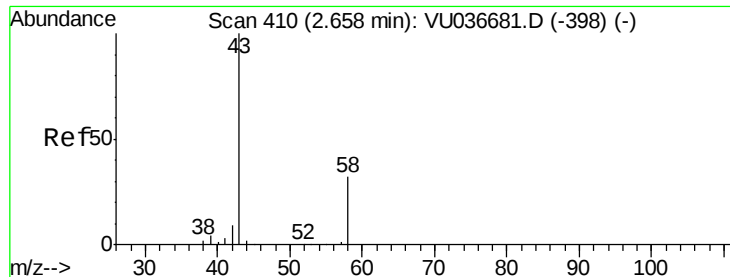


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 94.212 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

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ClientSampleId :

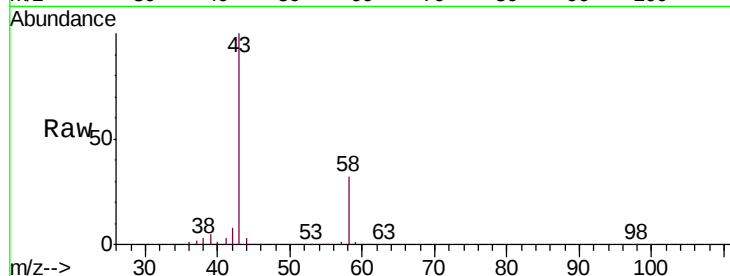
VSTD050107

Tgt Ion: 43 Resp: 151415

Ion Ratio Lower Upper

43 100

58 32.0 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU036689.D (-317) (-)

Ion 58.00 (57.70 to 58.70): VU036689.D (-317) (-)

2.66

80000

60000

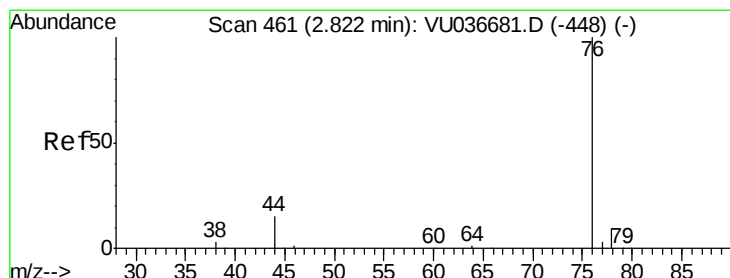
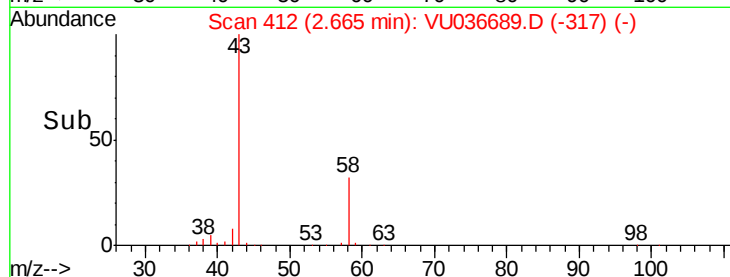
40000

20000

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Time-->

2.60 2.70 2.80



#14

Carbon disulfide

Concen: 50.734 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036689.D

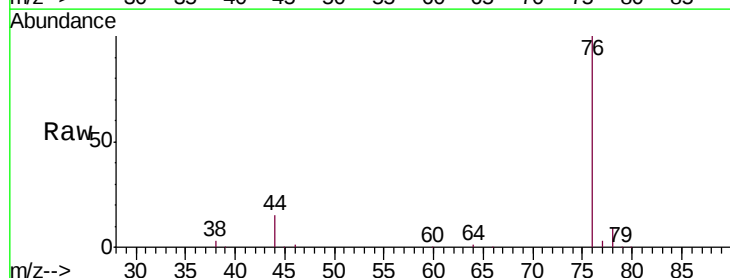
Acq: 06 Feb 2020 16:35

Tgt Ion: 76 Resp: 246261

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036689.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU036689.D (-368) (-)

2.82

150000

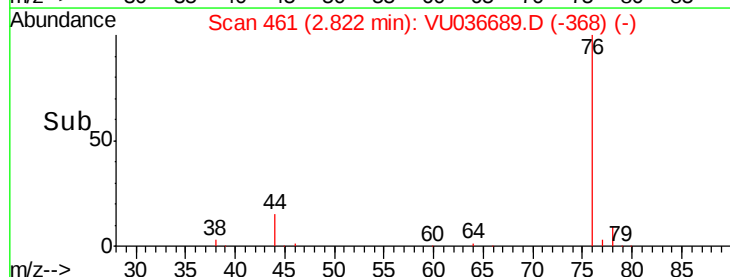
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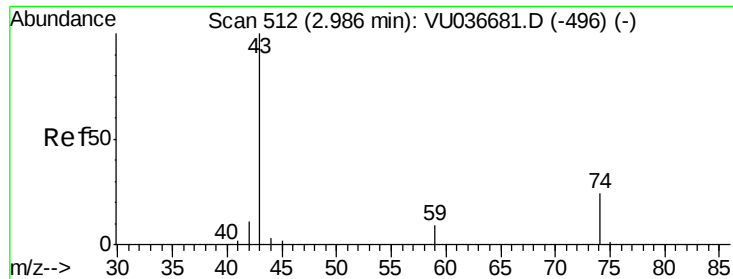
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Time-->

2.80 2.90

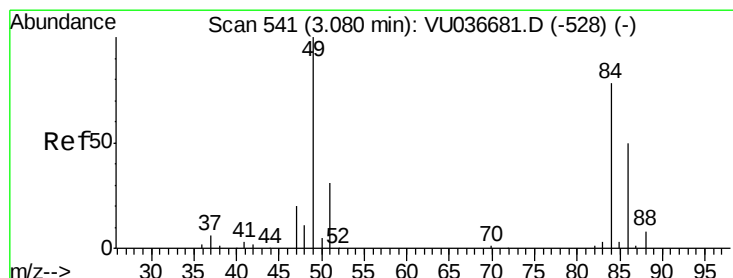
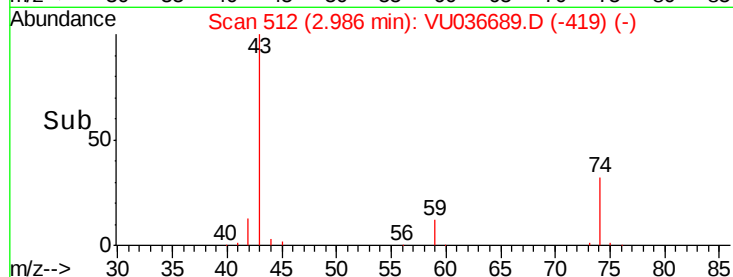
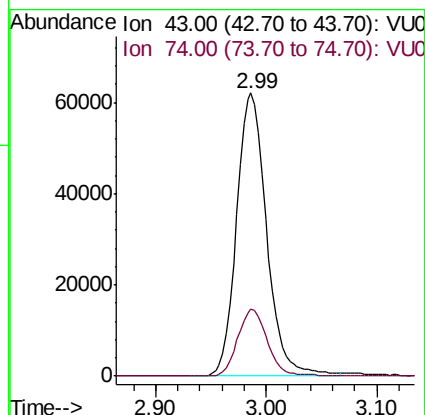
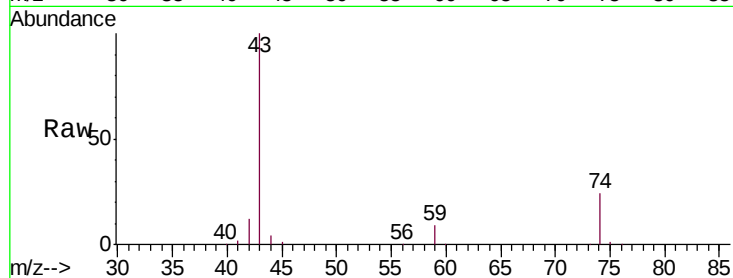




#15
Methyl Acetate
Concen: 50.569 ug/L
RT: 2.99 min Scan# 512
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

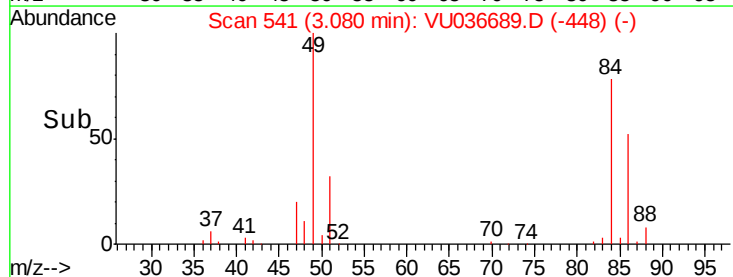
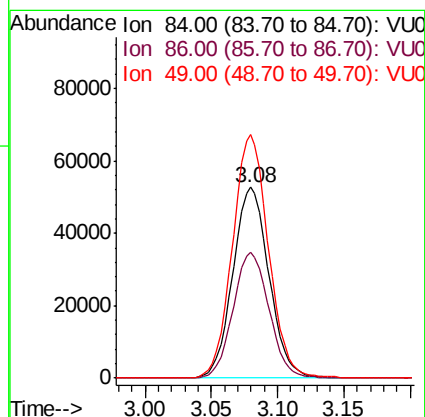
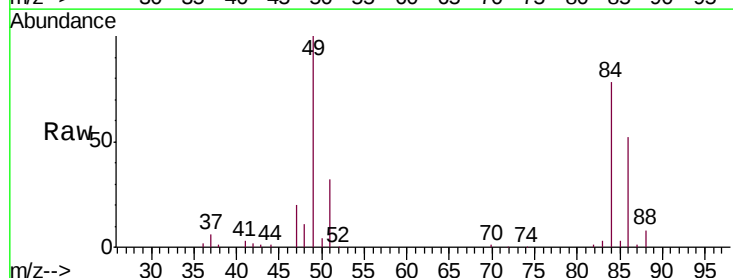
Instrument :
MSVOA_U
ClientSampleId :
VSTD050107

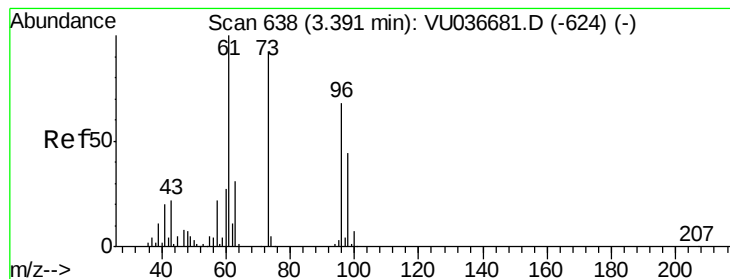
Tgt Ion: 43 Resp: 117497
Ion Ratio Lower Upper
43 100
74 23.4 18.7 28.1



#16
Methylene chloride
Concen: 49.846 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Tgt Ion: 84 Resp: 99931
Ion Ratio Lower Upper
84 100
86 65.9 44.4 82.5
49 127.5 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 51.201 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD050107

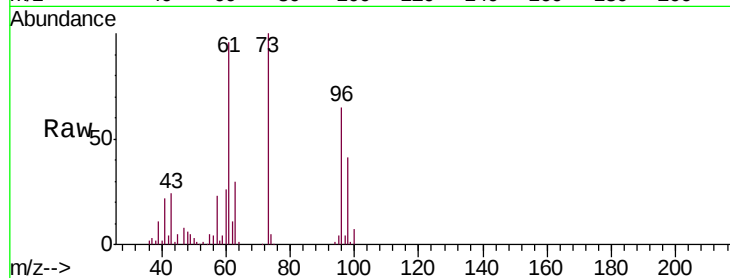
Tgt Ion: 96 Resp: 88488

Ion Ratio Lower Upper

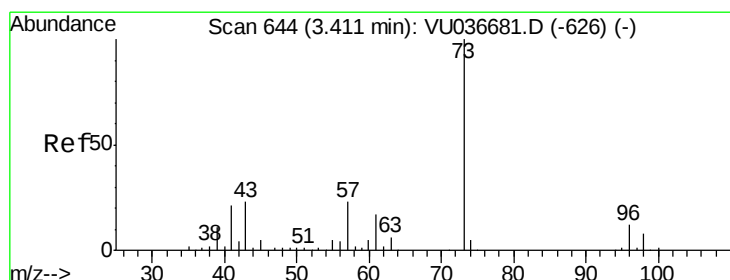
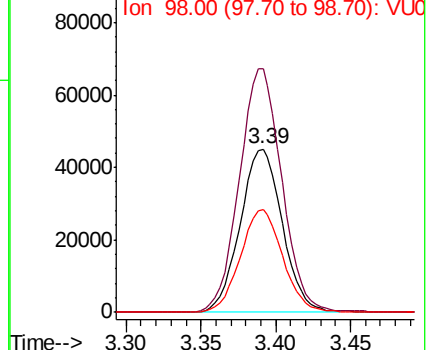
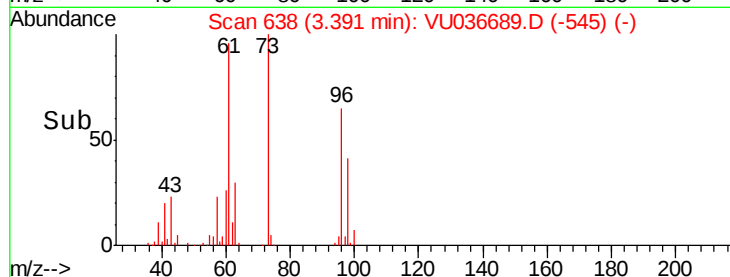
96 100

61 149.0 103.4 192.0

98 63.3 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU036689.D (-545) (-)



#18

Methyl tert-butyl Ether

Concen: 51.113 ug/L

RT: 3.41 min Scan# 643

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

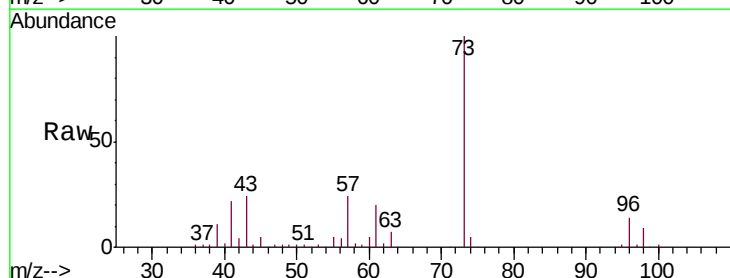
Tgt Ion: 73 Resp: 306586

Ion Ratio Lower Upper

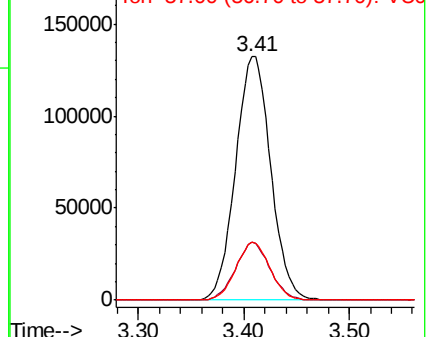
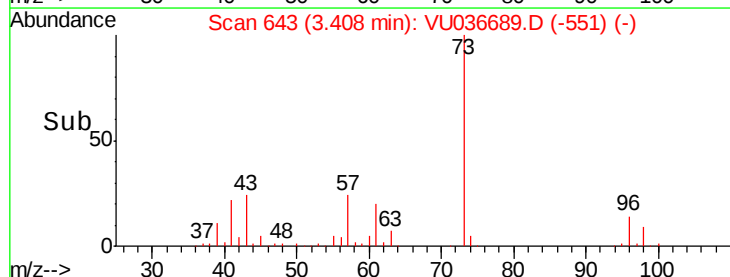
73 100

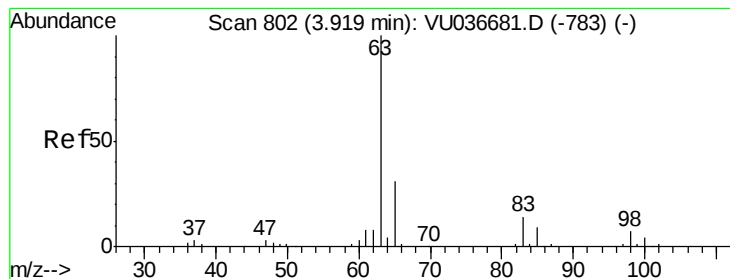
43 23.4 18.6 28.0

57 23.0 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU036689.D (-551) (-)





#19

1,1-Dichloroethane

Concen: 51.702 ug/L

RT: 3.92 min Scan# 801

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD050107

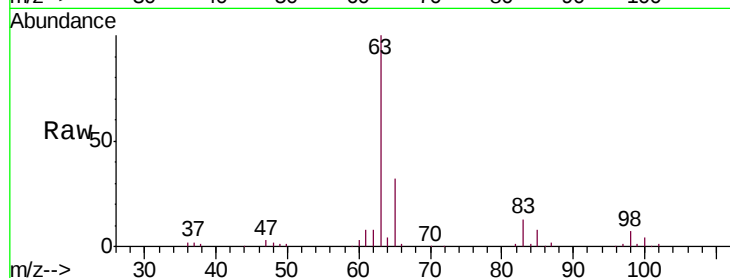
Tgt Ion: 63 Resp: 178037

Ion Ratio Lower Upper

63 100

65 31.5 22.0 40.8

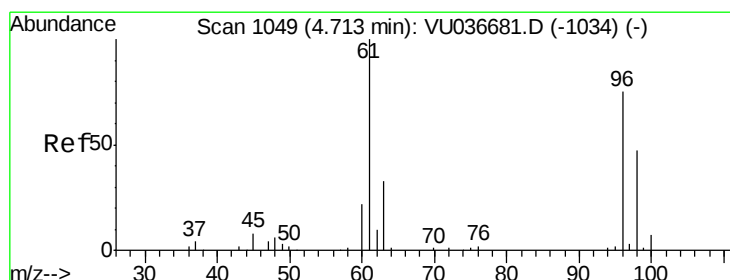
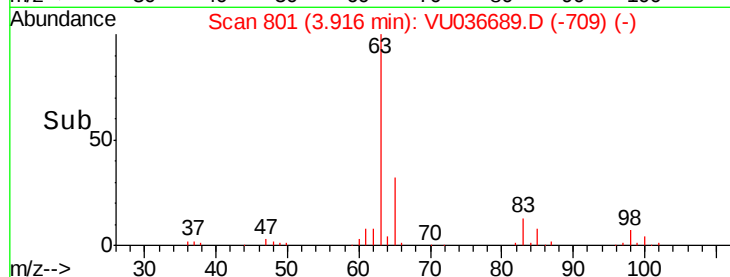
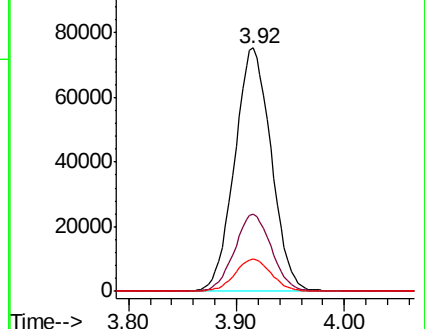
83 13.2 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU036689.D (-783) (-)

Ion 65.00 (64.70 to 65.70): VU036689.D (-783) (-)

Ion 83.00 (82.70 to 83.70): VU036689.D (-783) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.913 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

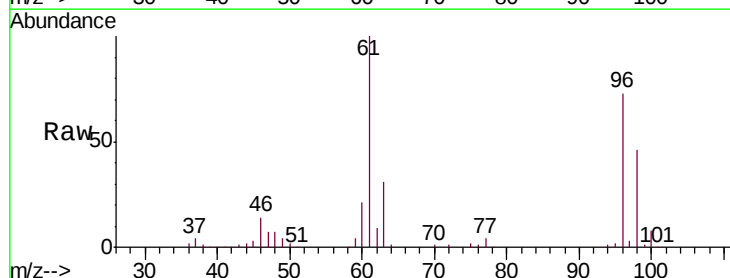
Tgt Ion: 96 Resp: 102226

Ion Ratio Lower Upper

96 100

61 136.5 93.3 173.3

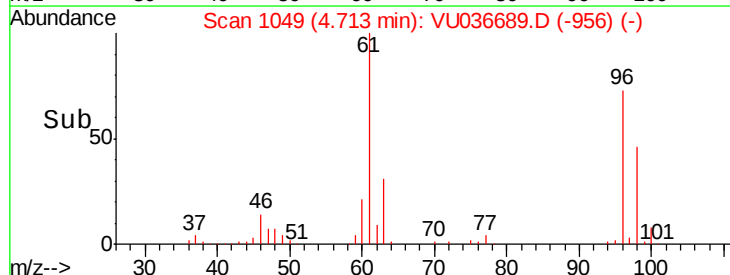
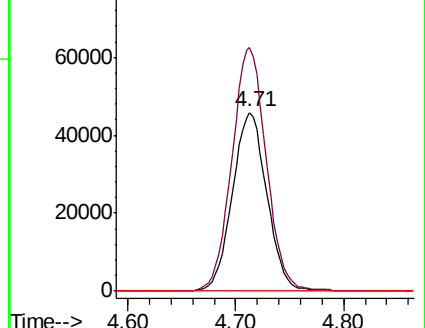
68 0.0 0.0 0.0

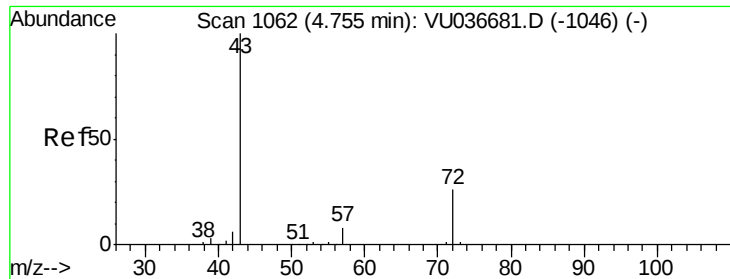


Abundance Ion 96.00 (95.70 to 96.70): VU036689.D (-956) (-)

Ion 61.00 (60.70 to 61.70): VU036689.D (-956) (-)

Ion 68.00 (67.70 to 68.70): VU036689.D (-956) (-)





#22

2-Butanone

Concen: 97.260 ug/L

RT: 4.76 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

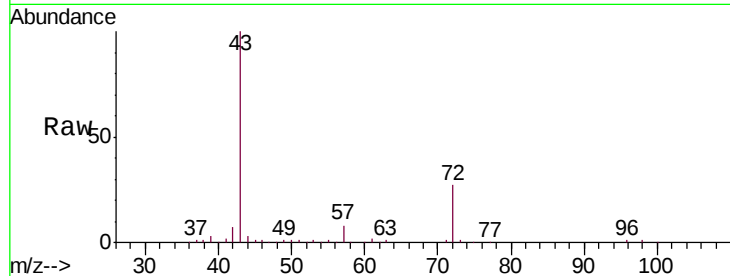
VSTD050107

Tgt Ion: 43 Resp: 185523

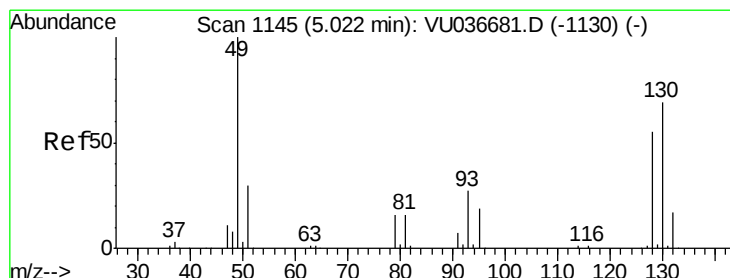
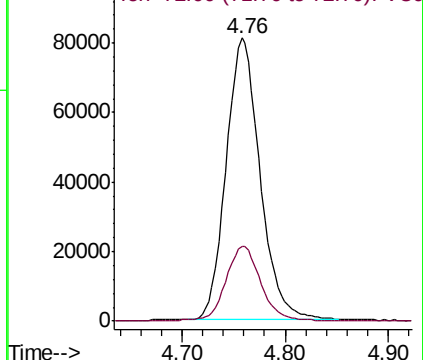
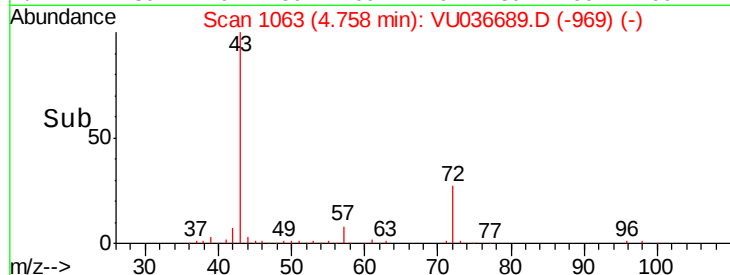
Ion Ratio Lower Upper

43 100

72 27.7 13.6 40.7



Abundance Ion 43.00 (42.70 to 43.70): VU036689.D (-969) (-)



#23

Bromochloromethane

Concen: 50.327 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Tgt Ion: 128 Resp: 46440

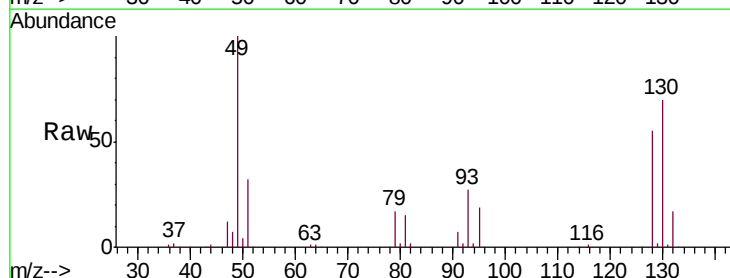
Ion Ratio Lower Upper

128 100

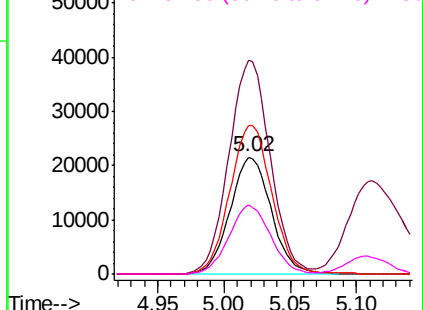
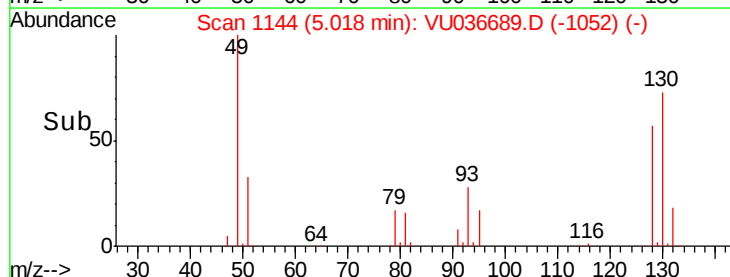
49 183.2 127.3 236.5

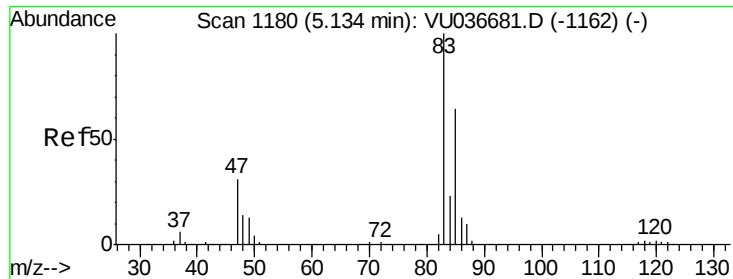
130 127.6 88.5 164.3

51 59.0 44.4 66.6



Abundance Ion 128.00 (127.70 to 128.70): VU036689.D (-1052) (-)

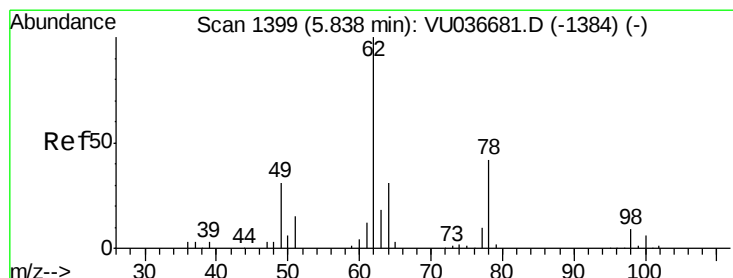
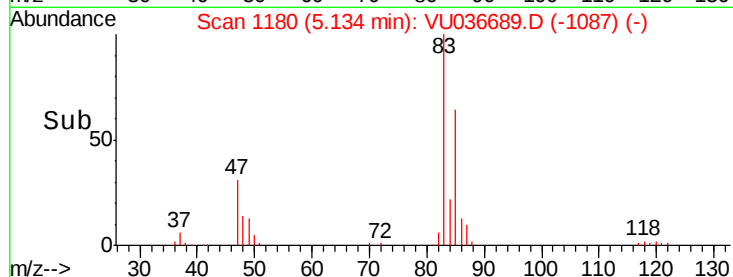
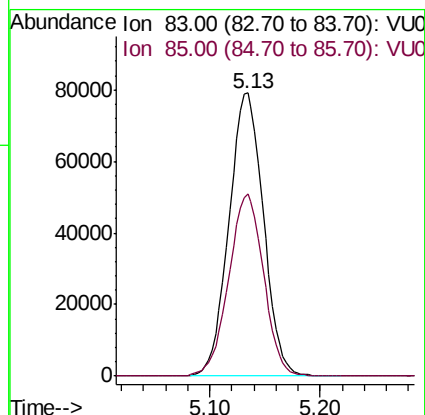
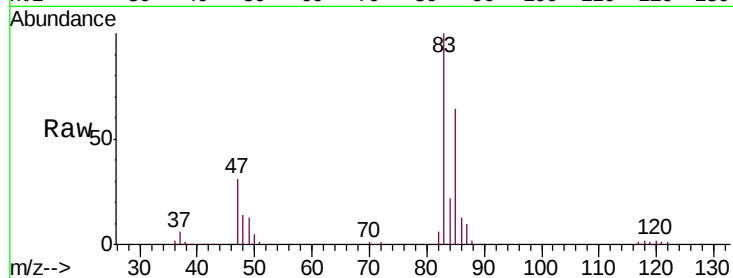




#25
Chloroform
Concen: 51.187 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

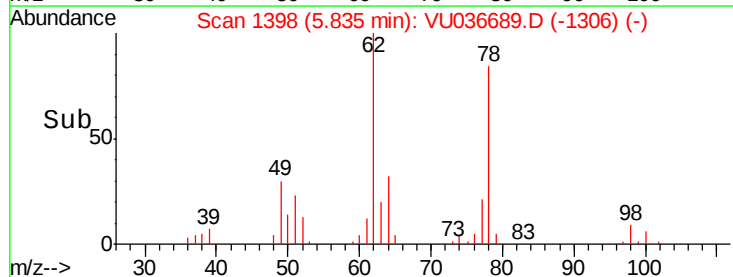
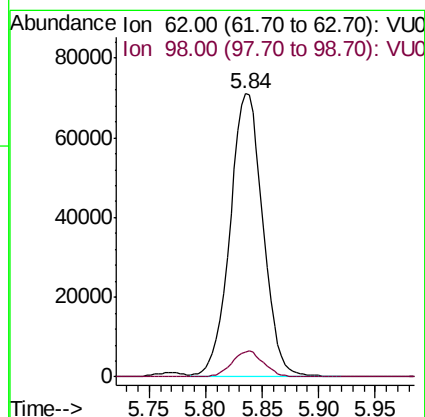
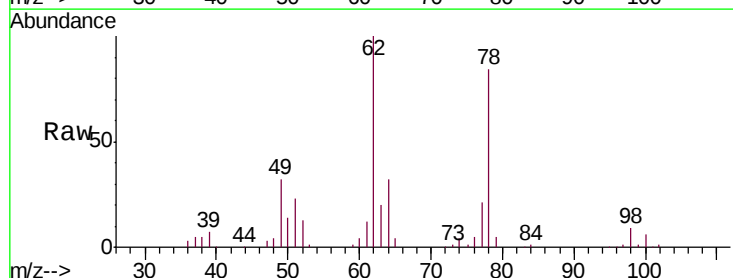
Instrument :
MSVOA_U
ClientSampleId :
VSTD050107

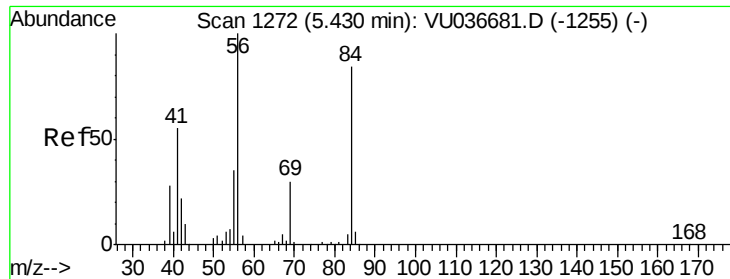
Tgt Ion: 83 Resp: 171423
Ion Ratio Lower Upper
83 100
85 64.3 44.6 82.8



#27
1,2-Dichloroethane
Concen: 51.088 ug/L
RT: 5.84 min Scan# 1398
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Tgt Ion: 62 Resp: 143880
Ion Ratio Lower Upper
62 100
98 9.0 7.0 10.4

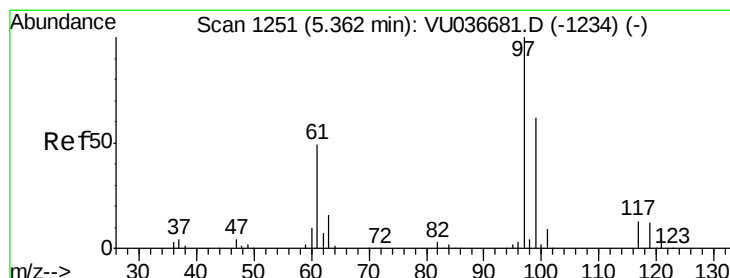
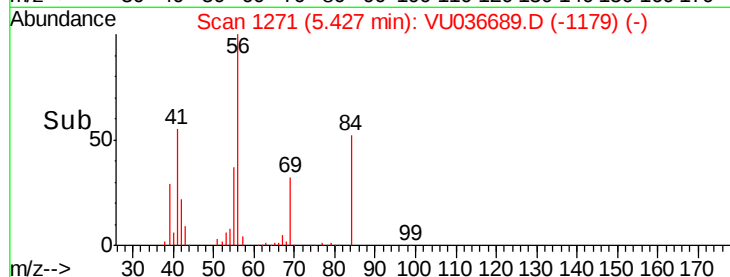
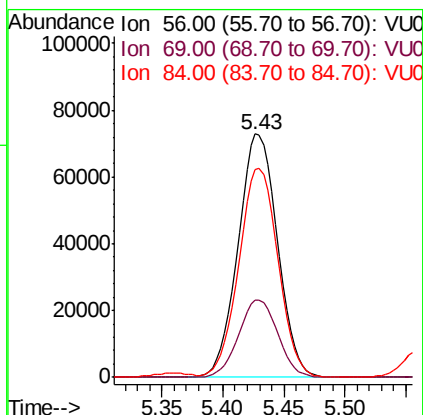
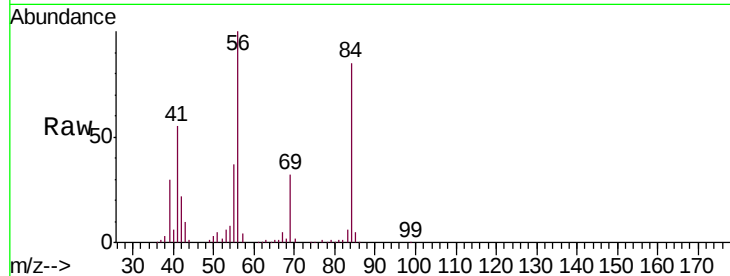




#29
Cyclohexane
Concen: 50.755 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

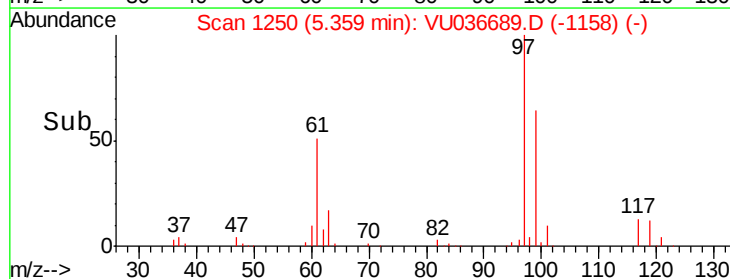
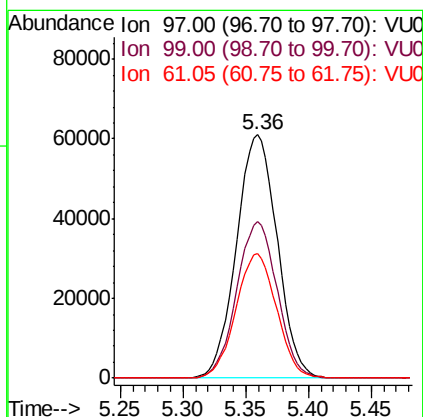
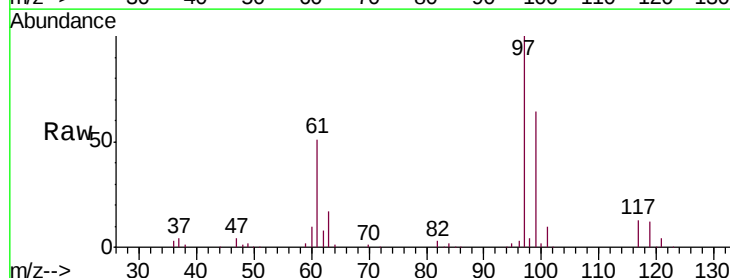
Instrument :
MSVOA_U
ClientSampleId :
VSTD050107

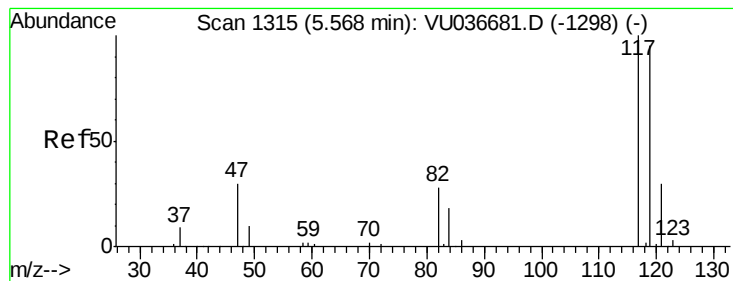
Tgt Ion: 56 Resp: 162331
Ion Ratio Lower Upper
56 100
69 31.6 25.0 37.4
84 85.5 68.2 102.2



#30
1,1,1-Trichloroethane
Concen: 52.140 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Tgt Ion: 97 Resp: 137905
Ion Ratio Lower Upper
97 100
99 64.0 50.9 76.3
61 51.1 40.2 60.2





#31

Carbon tetrachloride

Concen: 52.133 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

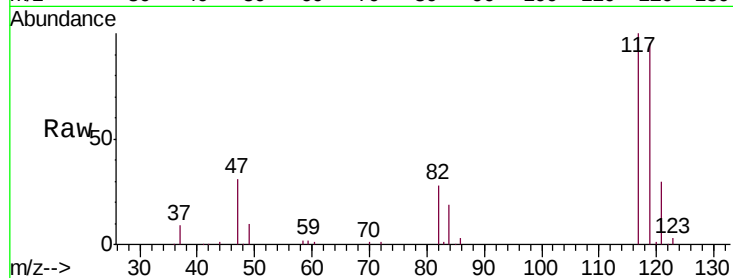
VSTD050107

Tgt Ion:117 Resp: 111647

Ion Ratio Lower Upper

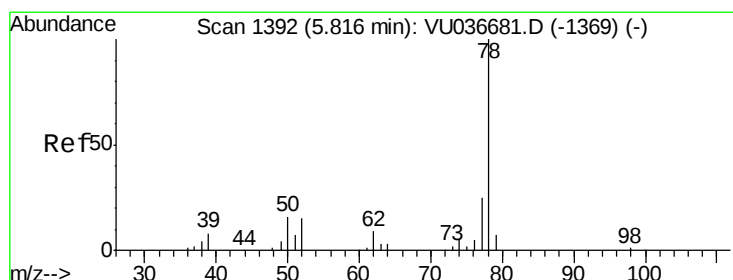
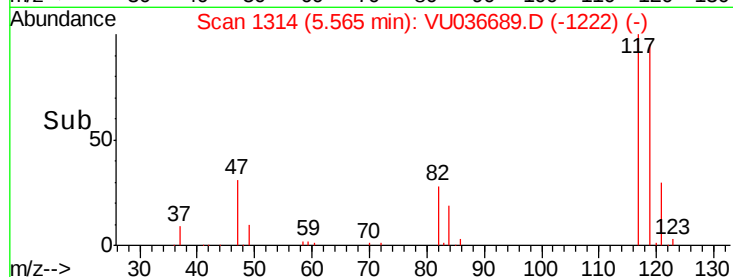
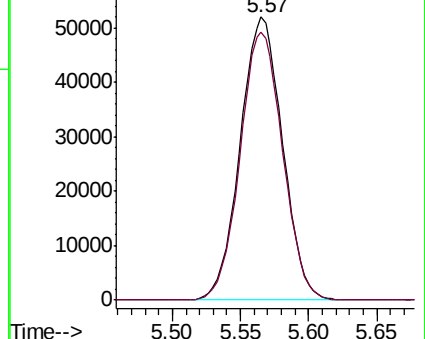
117 100

119 95.5 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.072 ug/L

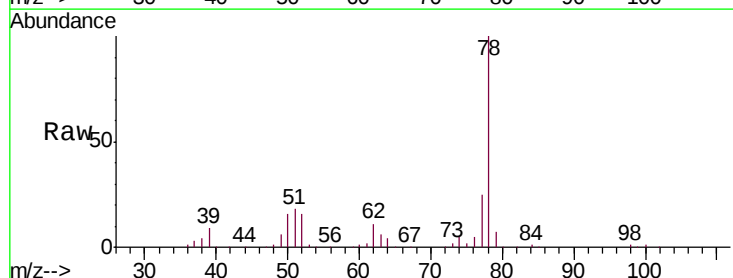
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

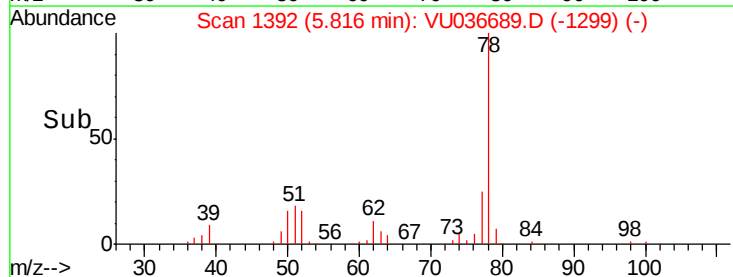
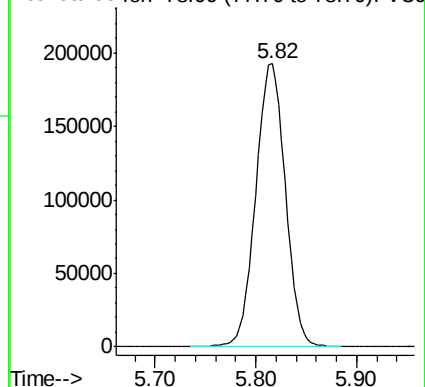
Lab File: VU036689.D

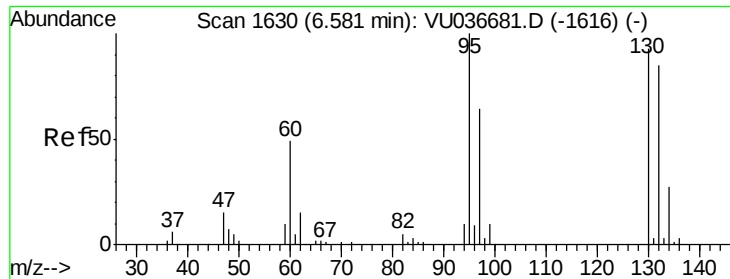
Acq: 06 Feb 2020 16:35

Tgt Ion: 78 Resp: 392153



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 52.075 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD050107

Tgt Ion: 95 Resp: 96980

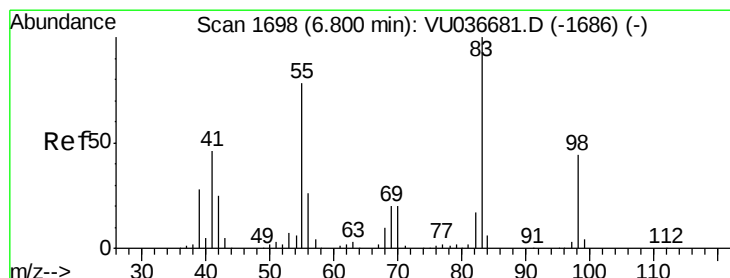
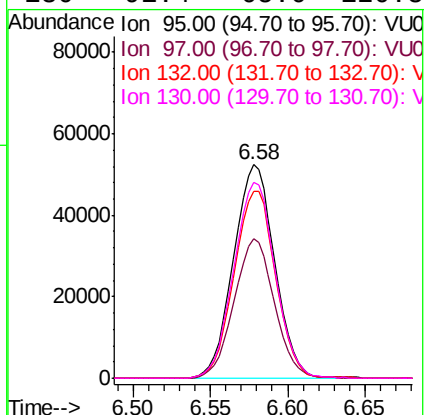
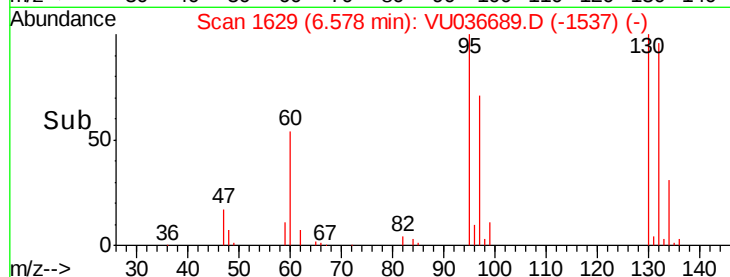
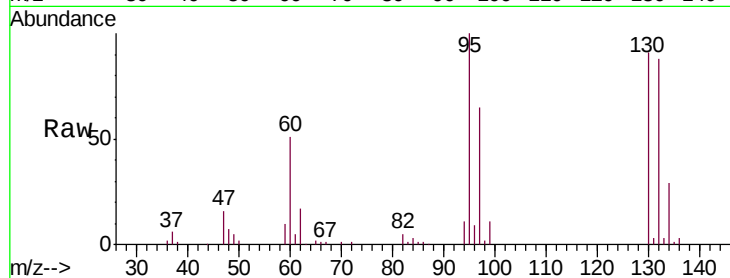
Ion Ratio Lower Upper

95 100

97 65.1 44.5 82.7

132 87.8 59.6 110.8

130 91.4 65.0 120.8



#35

Methylcyclohexane

Concen: 52.051 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

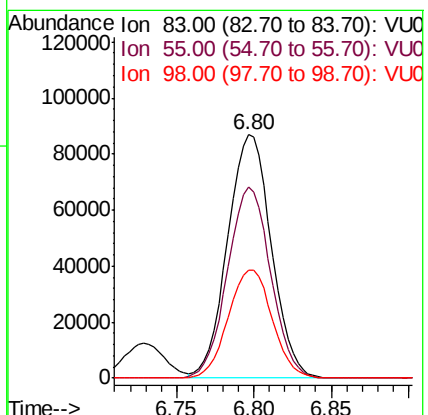
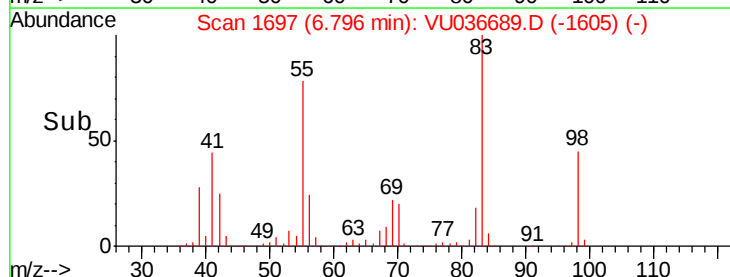
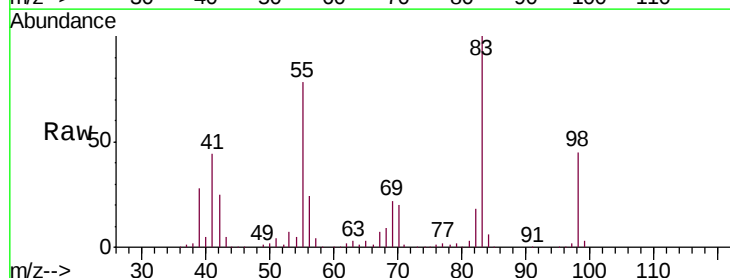
Tgt Ion: 83 Resp: 170710

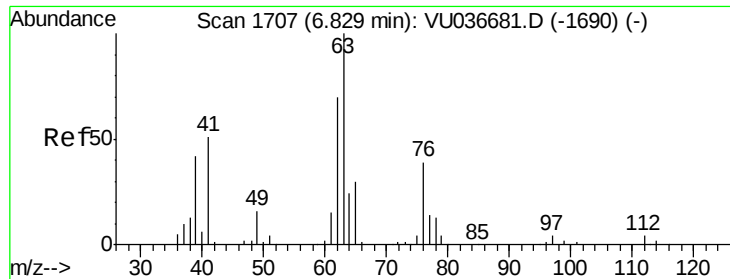
Ion Ratio Lower Upper

83 100

55 77.4 61.2 91.8

98 44.8 35.4 53.0

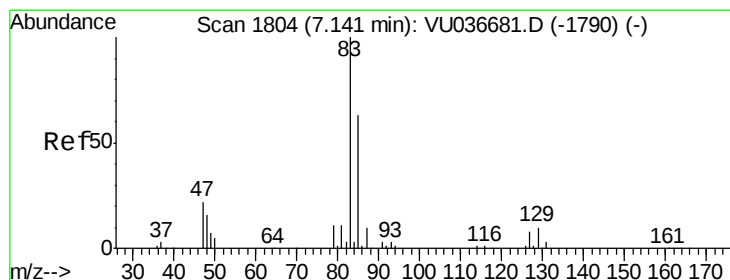
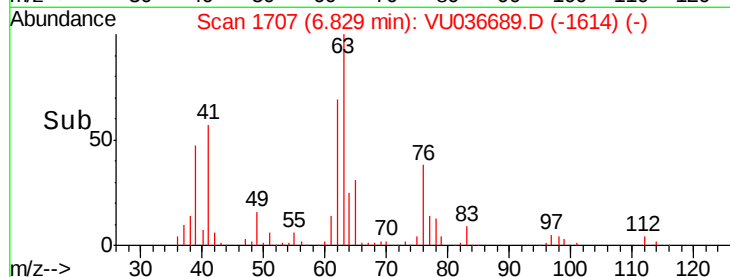
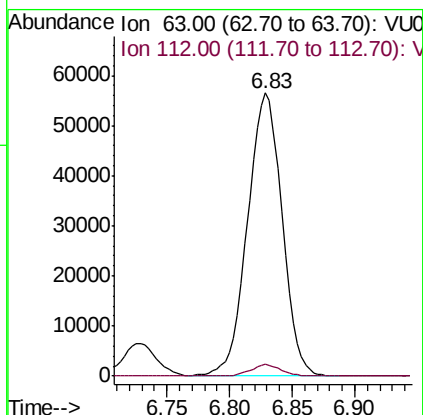
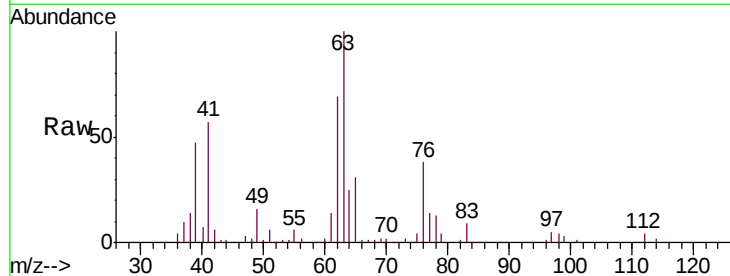




#37
 1,2-Dichloropropane
 Concen: 53.240 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

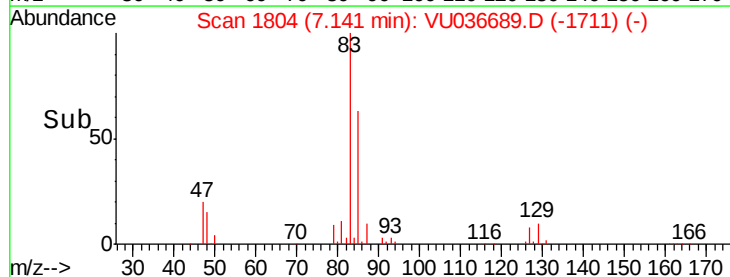
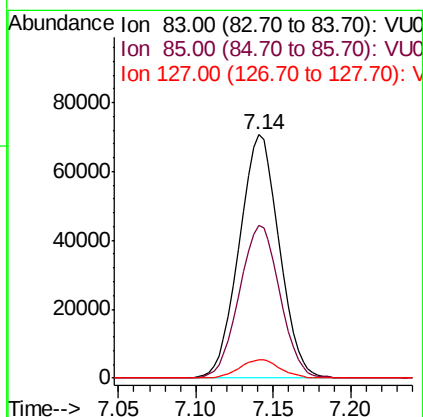
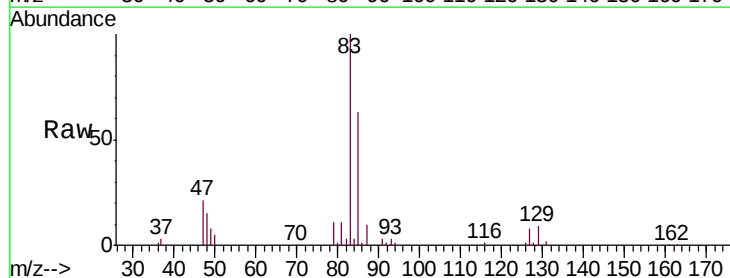
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050107

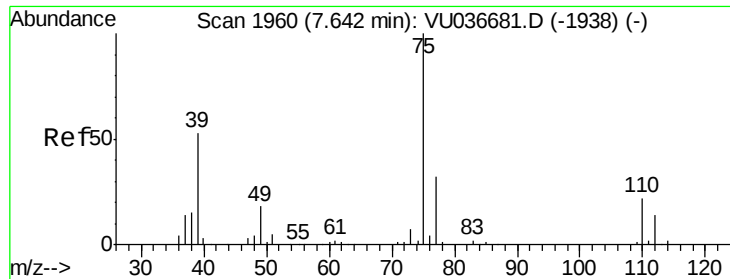
Tgt Ion: 63 Resp: 108117
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.1 4.7



#38
 Bromodichloromethane
 Concen: 51.571 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

Tgt Ion: 83 Resp: 127266
 Ion Ratio Lower Upper
 83 100
 85 62.5 43.9 81.5
 127 7.6 6.0 9.0





#39

cis-1,3-Dichloropropene

Concen: 52.157 ug/L

RT: 7.64 min Scan# 1959

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

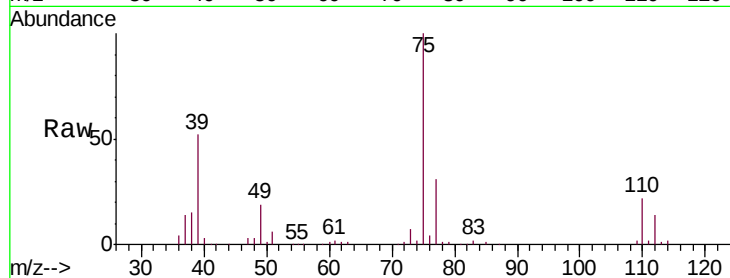
VSTD050107

Tgt Ion: 75 Resp: 169235

Ion Ratio Lower Upper

75 100

77 31.3 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU036681.D (-1938) (-)

Ion 77.00 (76.70 to 77.70): VU036681.D (-1938) (-)

7.64

100000

80000

60000

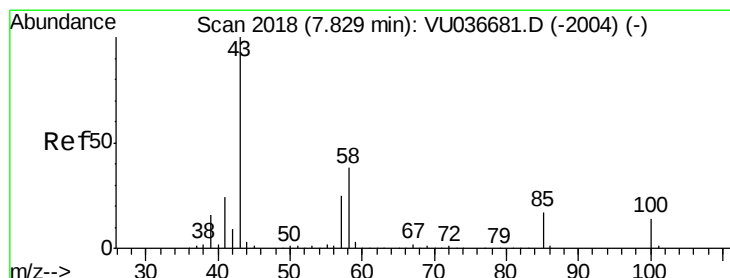
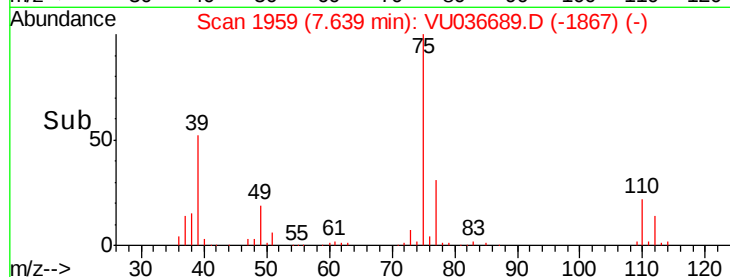
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#40

4-Methyl-2-pentanone

Concen: 100.455 ug/L

RT: 7.83 min Scan# 2018

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

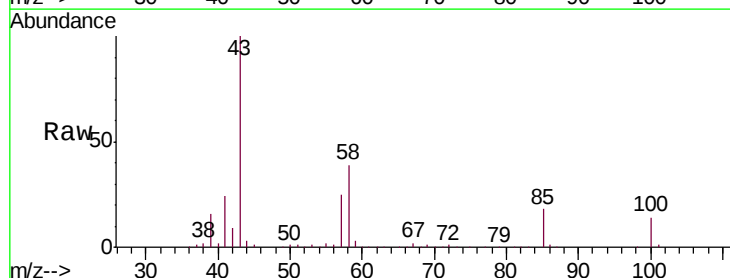
Tgt Ion: 43 Resp: 322312

Ion Ratio Lower Upper

43 100

58 39.4 31.0 46.6

100 14.2 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VU036681.D (-2004) (-)

Ion 58.00 (57.70 to 58.70): VU036681.D (-2004) (-)

Ion 100.00 (99.70 to 100.70): VU036681.D (-2004) (-)

7.83

250000

200000

150000

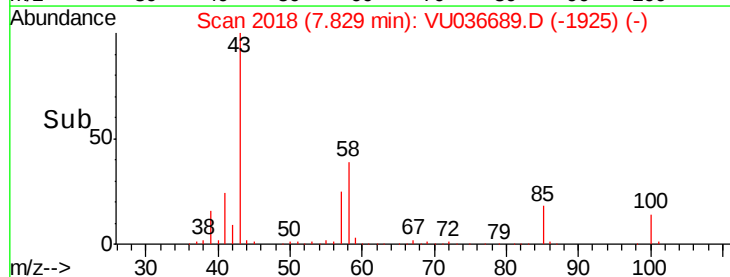
100000

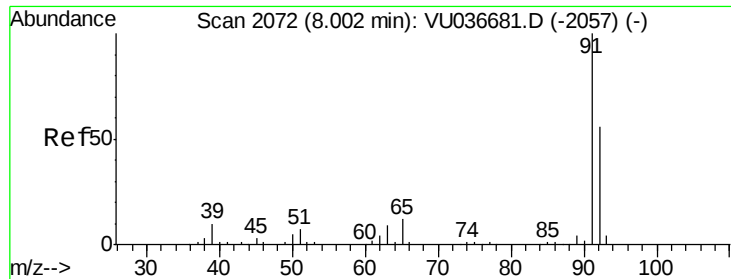
50000

0

7.75 7.80 7.85 7.90

Time-->





#42

Toluene

Concen: 51.938 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

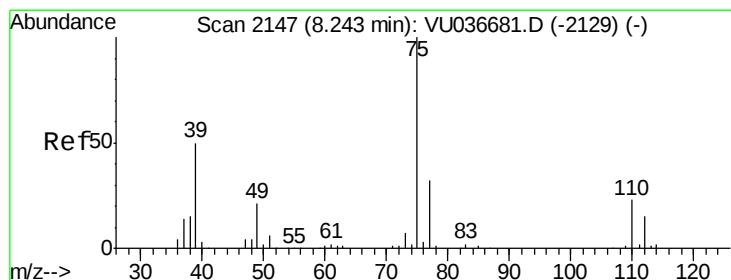
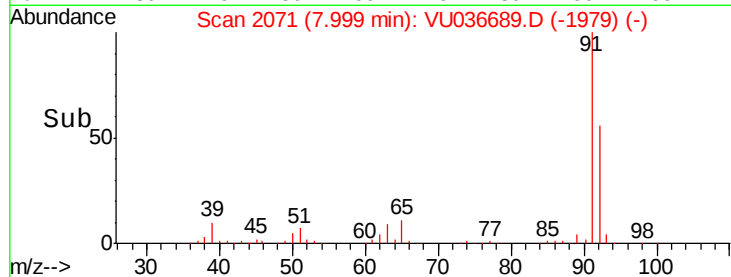
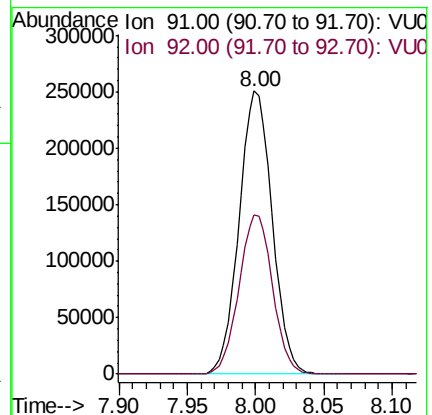
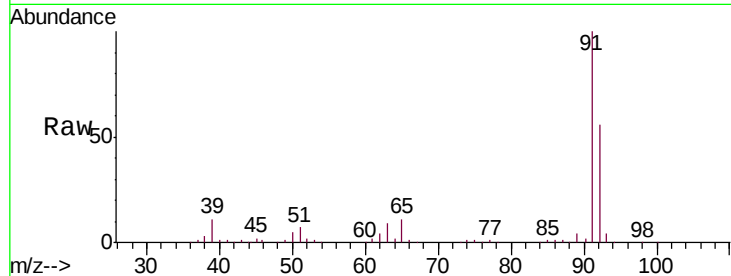
VSTD050107

Tgt Ion: 91 Resp: 422653

Ion Ratio Lower Upper

91 100

92 56.1 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 51.832 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. -0.00 min

Lab File: VU036689.D

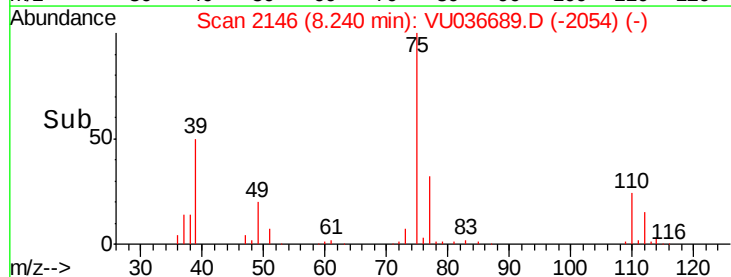
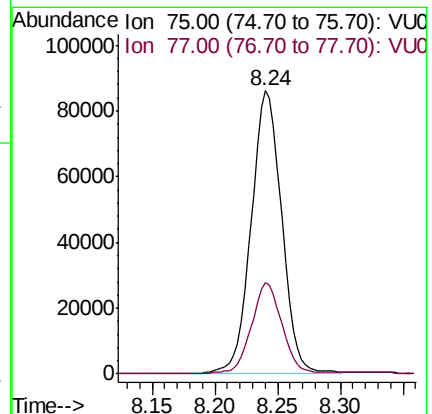
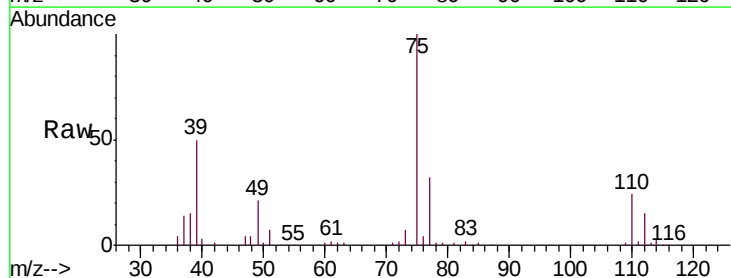
Acq: 06 Feb 2020 16:35

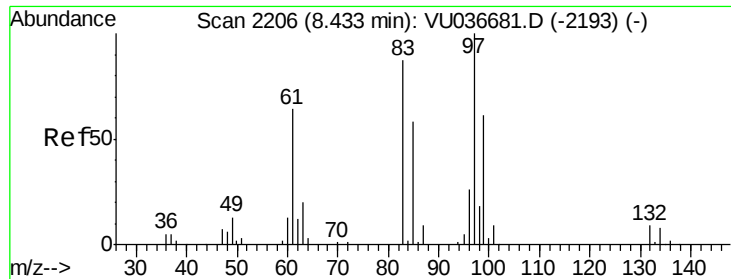
Tgt Ion: 75 Resp: 146922

Ion Ratio Lower Upper

75 100

77 32.1 22.6 42.0

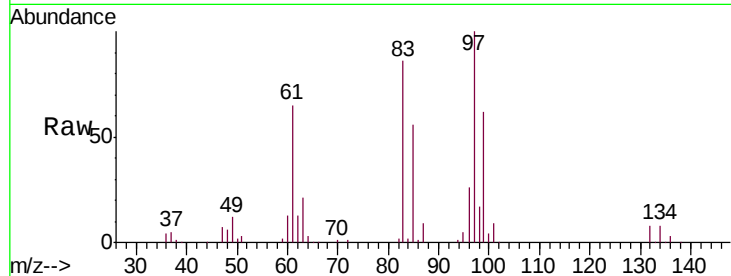




#45
 1,1,2-Trichloroethane
 Concen: 51.517 ug/L
 RT: 8.43 min Scan# 2205
 Delta R.T. -0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050107

Tgt Ion:	97	Resp:	95440
Ion	Ratio	Lower	Upper
97	100		
99	62.5	42.6	79.0
83	85.7	61.1	113.5
85	56.0	40.4	75.0



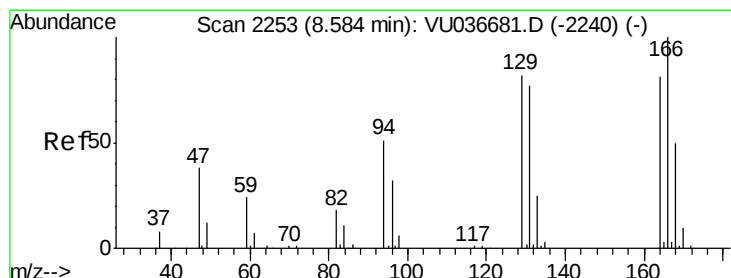
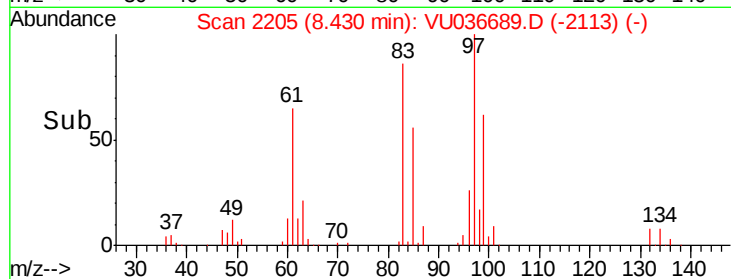
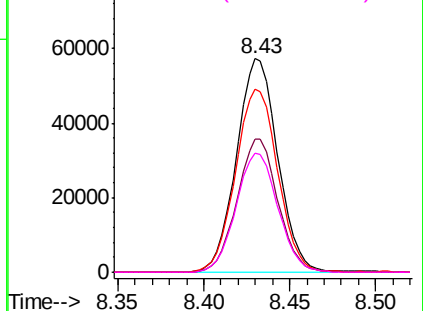
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

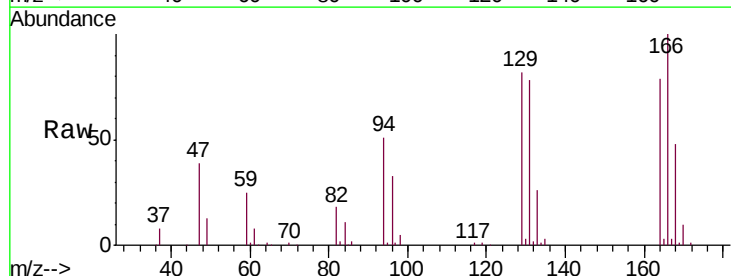
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 49.922 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

Tgt Ion:	164	Resp:	65241
Ion	Ratio	Lower	Upper
164	100		
129	104.0	71.0	131.9
131	98.8	66.6	123.6
166	126.1	86.4	160.4



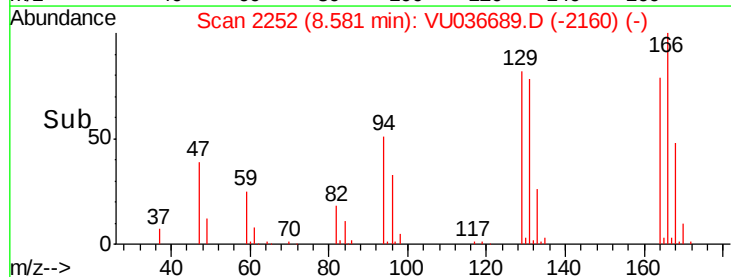
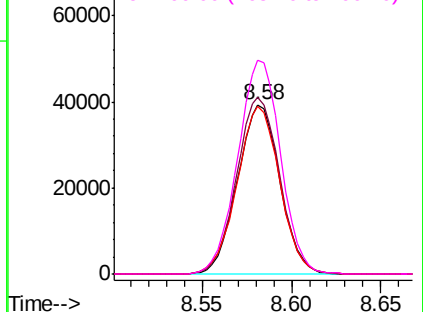
Abundance

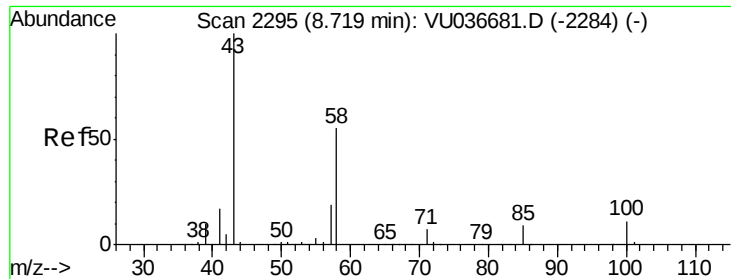
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

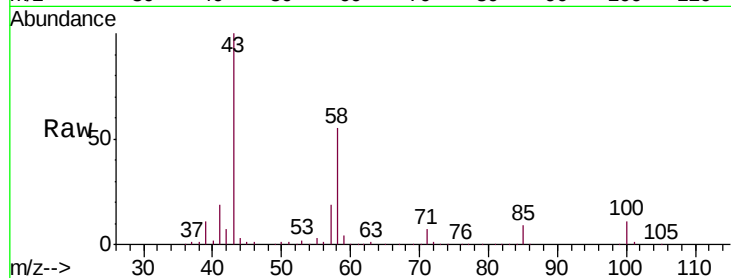




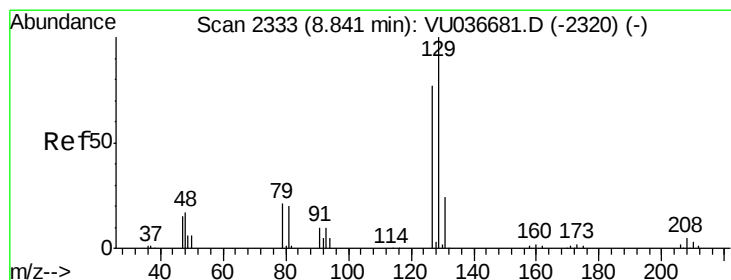
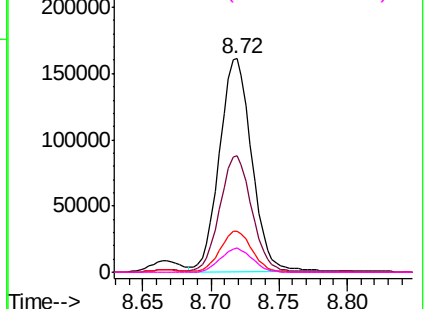
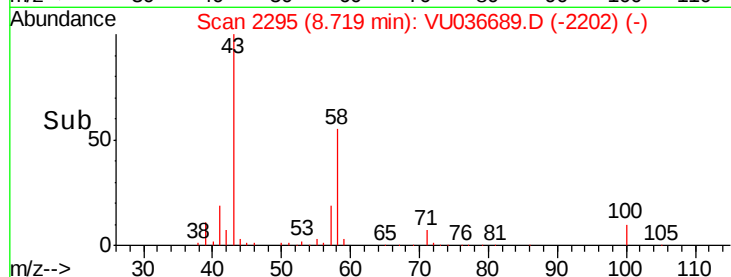
#48
2-Hexanone
Concen: 100.969 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Instrument :
MSVOA_U
ClientSampleId :
VSTD050107

Tgt Ion: 43 Resp: 264270
Ion Ratio Lower Upper
43 100
58 53.5 43.6 65.4
57 19.3 15.5 23.3
100 11.1 9.0 13.4

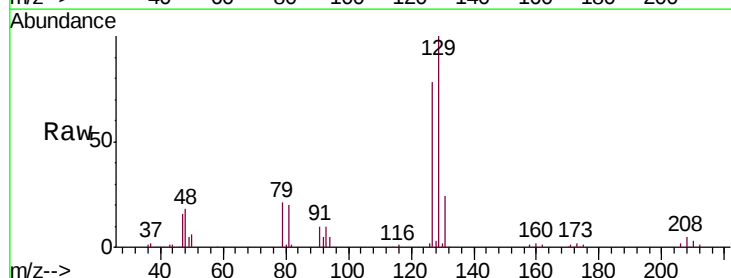


Abundance Ion 43.00 (42.70 to 43.70): VU036689.D (-2202) (-)
Ion 58.00 (57.70 to 58.70): VU036689.D (-2202) (-)
Ion 57.00 (56.70 to 57.70): VU036689.D (-2202) (-)
Ion 100.00 (99.70 to 100.70): VU036689.D (-2202) (-)

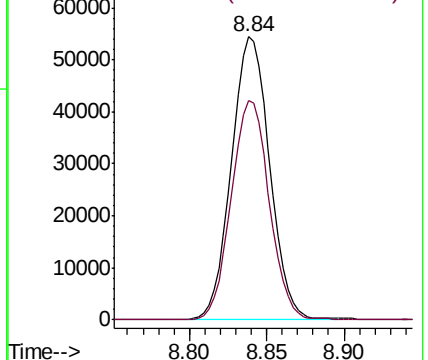
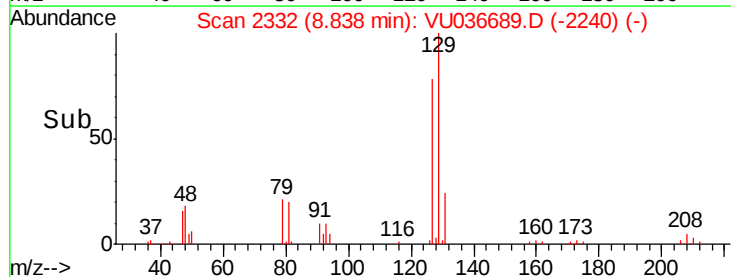


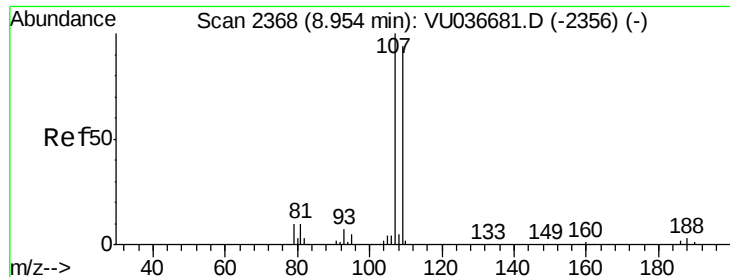
#49
Dibromochloromethane
Concen: 51.610 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Tgt Ion: 129 Resp: 93517
Ion Ratio Lower Upper
129 100
127 77.7 53.6 99.6



Abundance Ion 129.00 (128.70 to 129.70): VU036689.D (-2240) (-)
Ion 127.00 (126.70 to 127.70): VU036689.D (-2240) (-)

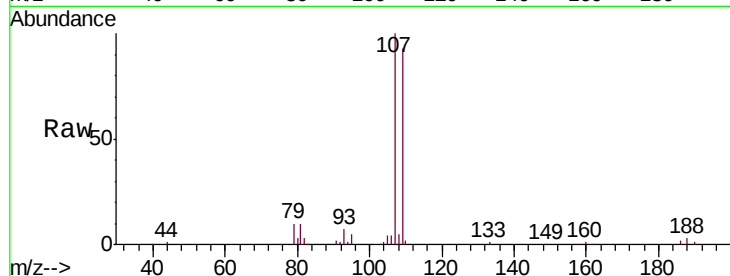




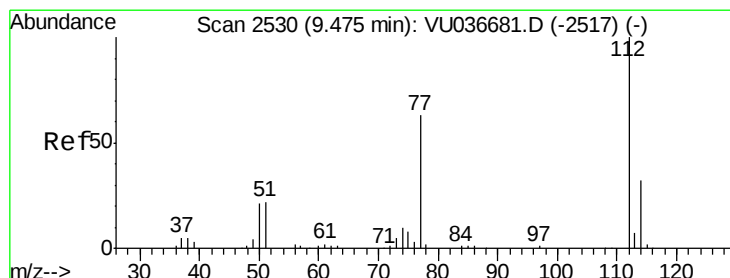
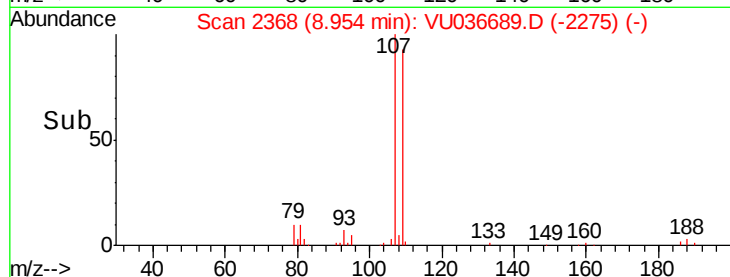
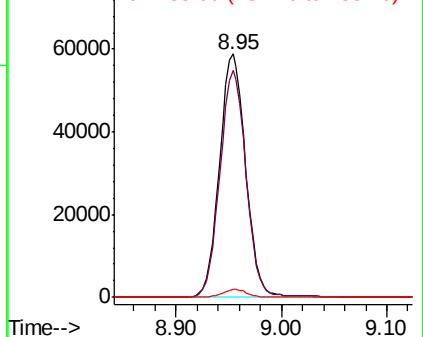
#50
1,2-Dibromoethane
Concen: 51.987 ug/L
RT: 8.95 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Instrument :
MSVOA_U
ClientSampleId :
VSTD050107

Tgt Ion:107 Resp: 101179
Ion Ratio Lower Upper
107 100
109 93.1 65.8 122.2
188 3.1 2.5 3.7

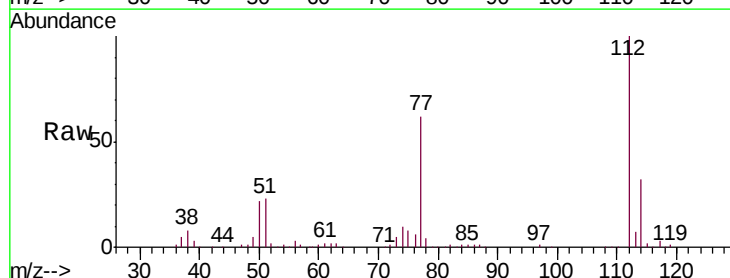


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

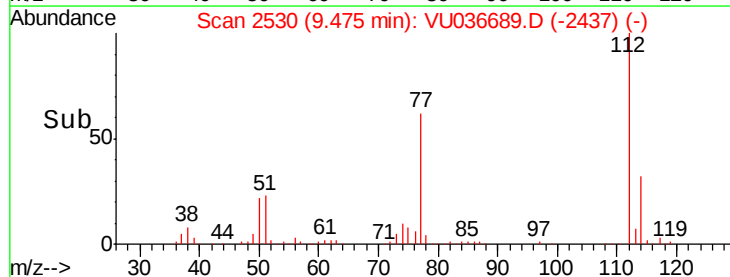
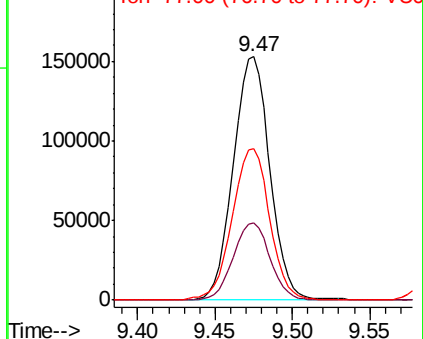


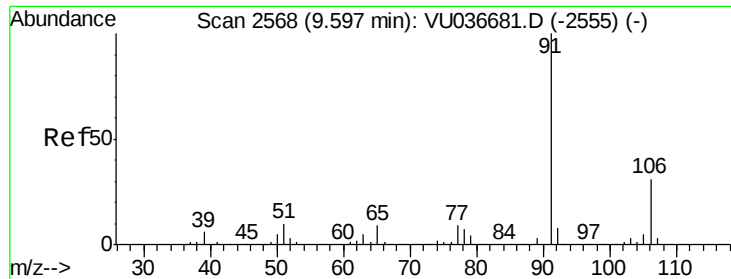
#51
Chlorobenzene
Concen: 51.168 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Tgt Ion:112 Resp: 250728
Ion Ratio Lower Upper
112 100
114 31.7 22.7 42.1
77 62.1 50.6 75.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 51.483 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

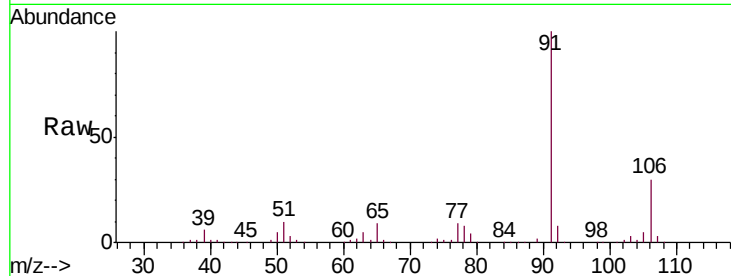
VSTD050107

Tgt Ion: 91 Resp: 460352

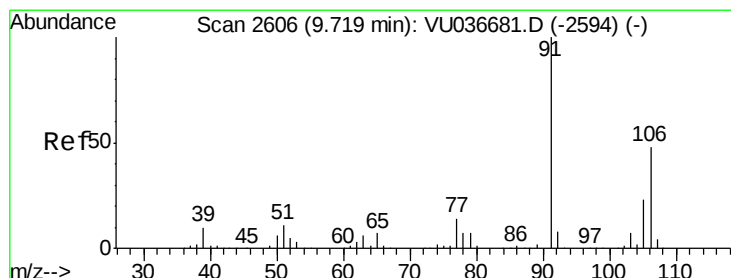
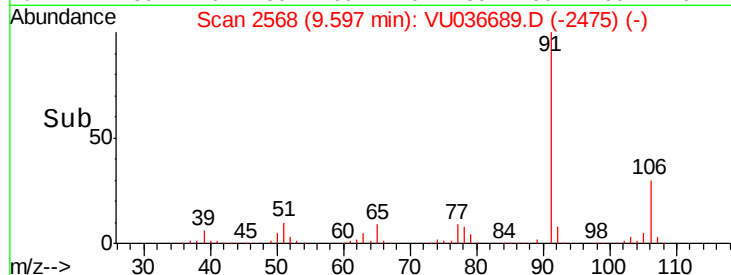
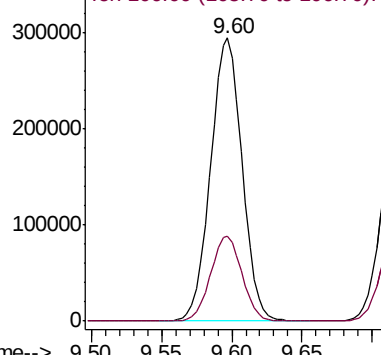
Ion Ratio Lower Upper

91 100

106 30.1 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU036689.D (-2555) (-)



#53

m,p-Xylene

Concen: 51.716 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036689.D

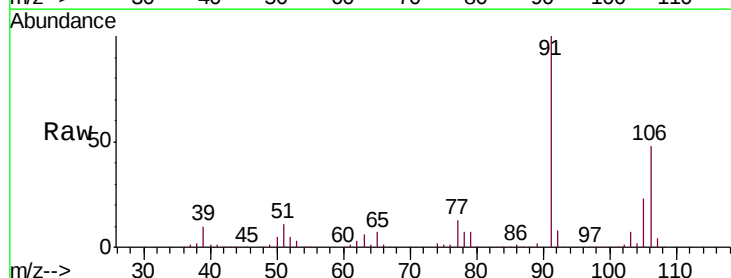
Acq: 06 Feb 2020 16:35

Tgt Ion: 106 Resp: 170590

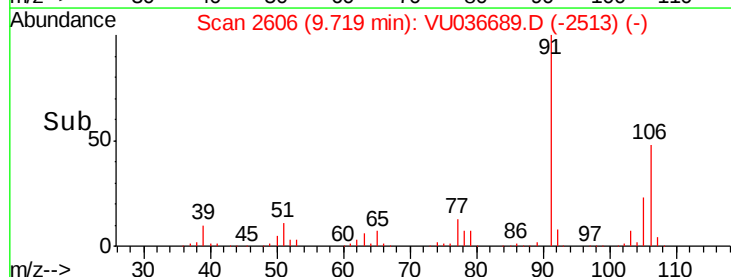
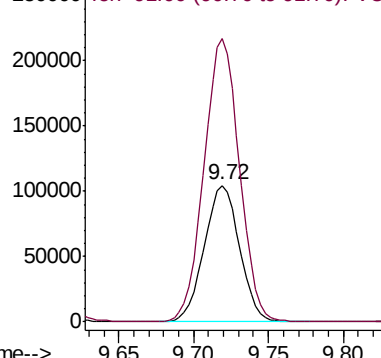
Ion Ratio Lower Upper

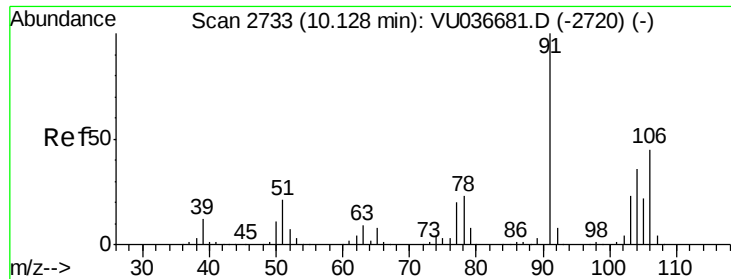
106 100

91 207.7 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036689.D (-2594) (-)





#54

o-xylene

Concen: 50.728 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

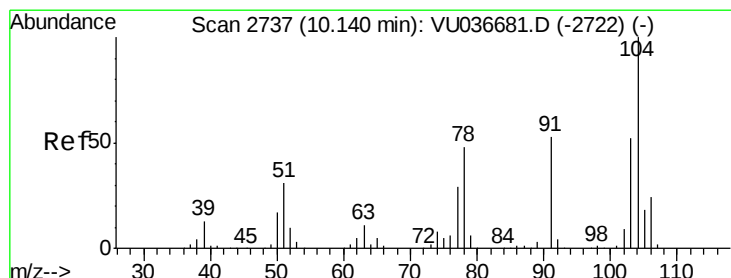
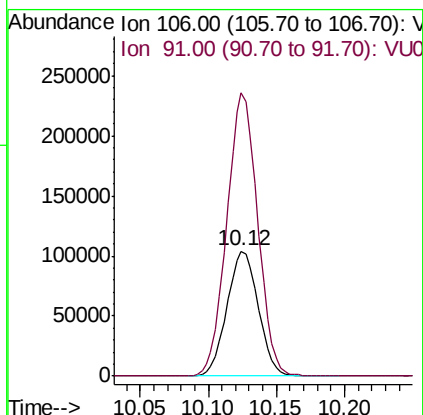
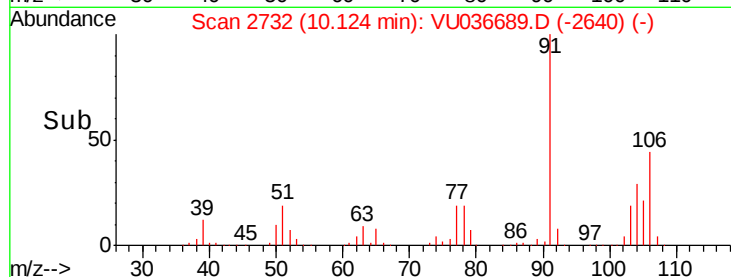
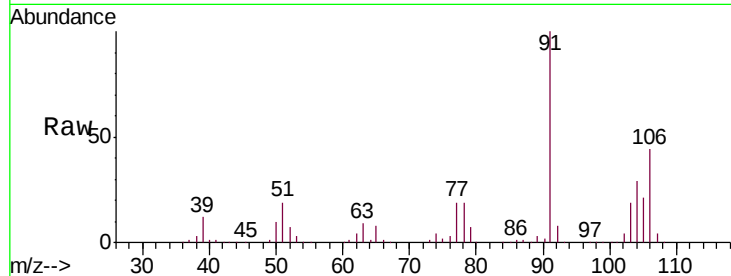
VSTD050107

Tgt Ion:106 Resp: 165764

Ion Ratio Lower Upper

106 100

91 227.0 156.0 289.6



#55

Styrene

Concen: 52.117 ug/L

RT: 10.14 min Scan# 2736

Delta R.T. -0.00 min

Lab File: VU036689.D

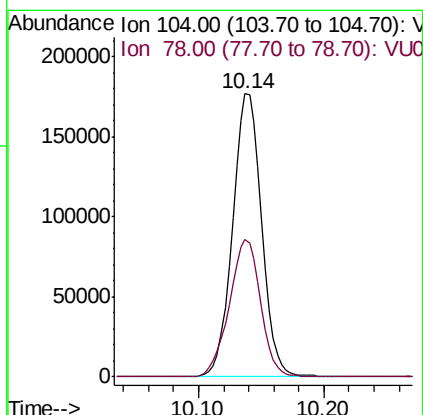
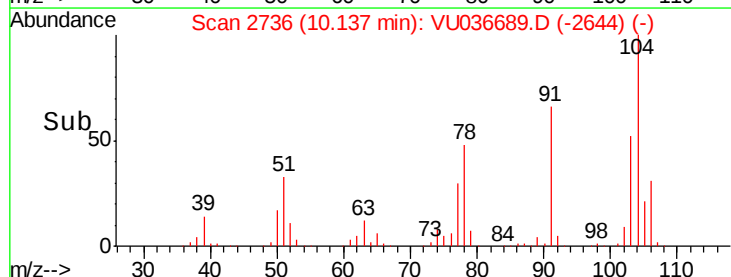
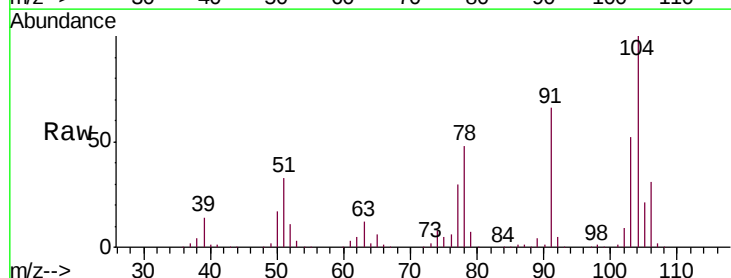
Acq: 06 Feb 2020 16:35

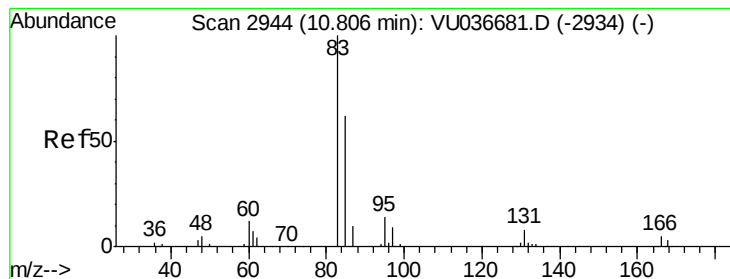
Tgt Ion:104 Resp: 283827

Ion Ratio Lower Upper

104 100

78 48.5 33.7 62.7





#57

1,1,2,2-Tetrachloroethane

Concen: 50.244 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD050107

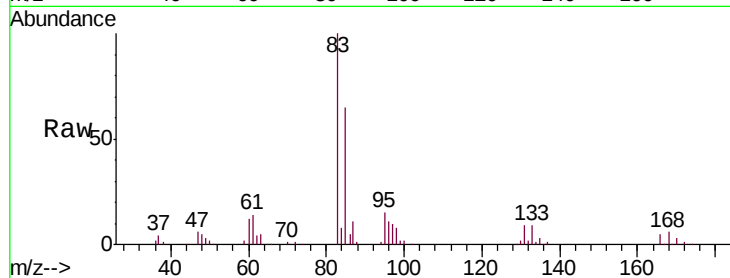
Tgt Ion: 83 Resp: 167729

Ion Ratio Lower Upper

83 100

85 64.7 44.7 82.9

131 8.6 6.8 10.2

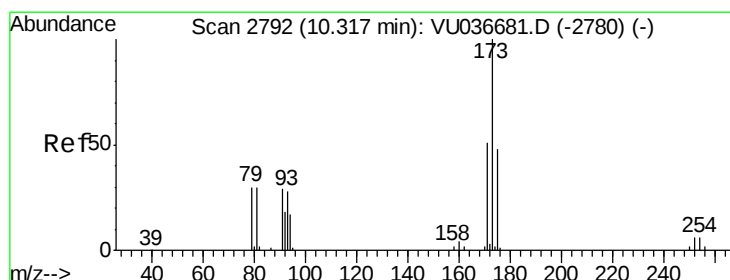
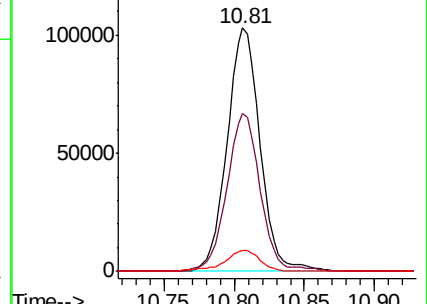
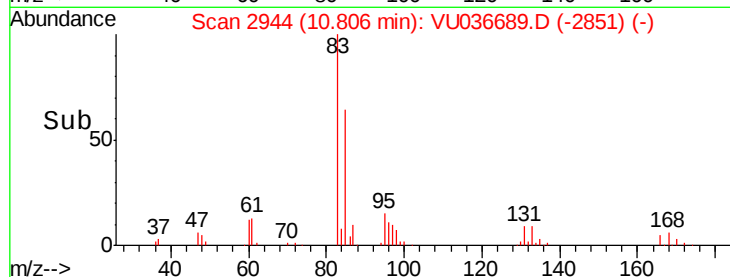


Abundance Ion 83.00 (82.70 to 83.70): VU036689.D (-2934) (-)

Ion 85.00 (84.70 to 85.70): VU036689.D (-2934) (-)

Ion 131.00 (130.70 to 131.70): VU036689.D (-2934) (-)

Time-->



#59

Bromoform

Concen: 50.251 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

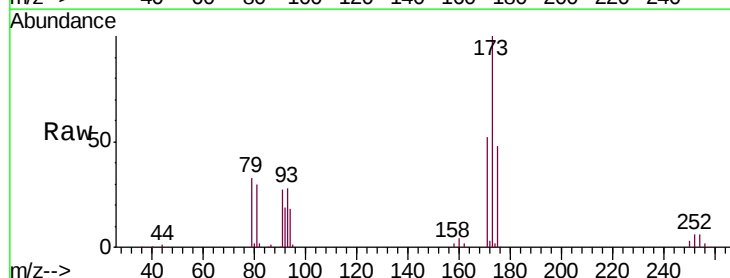
Tgt Ion: 173 Resp: 63446

Ion Ratio Lower Upper

173 100

175 48.8 38.2 57.4

254 6.0 4.8 7.2

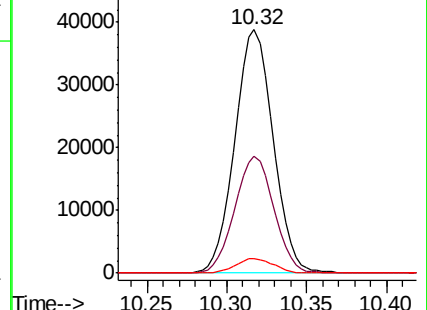
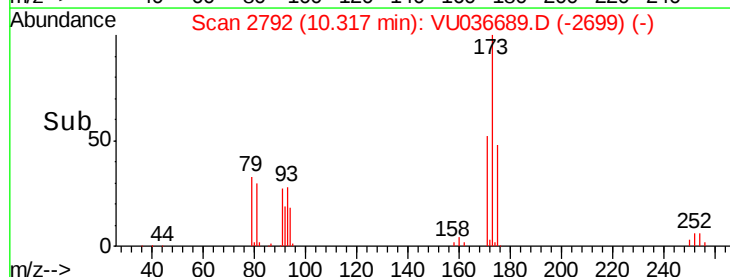


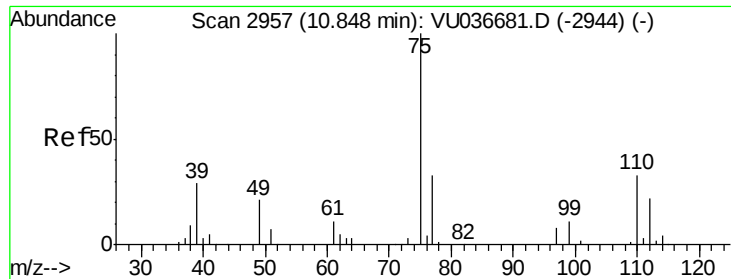
Abundance Ion 173.00 (172.70 to 173.70): VU036689.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU036689.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU036689.D (-2780) (-)

Time-->

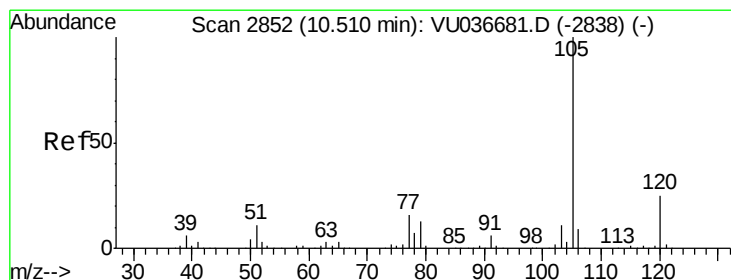
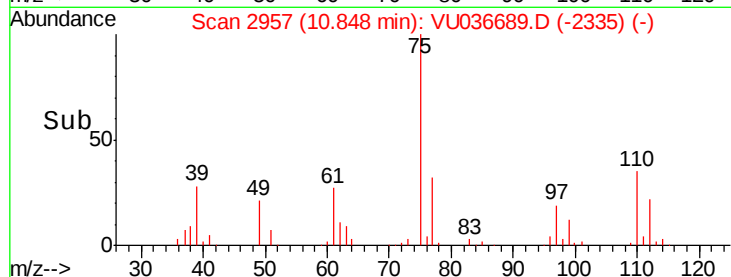
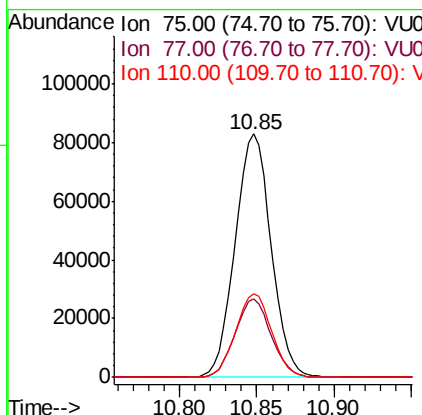
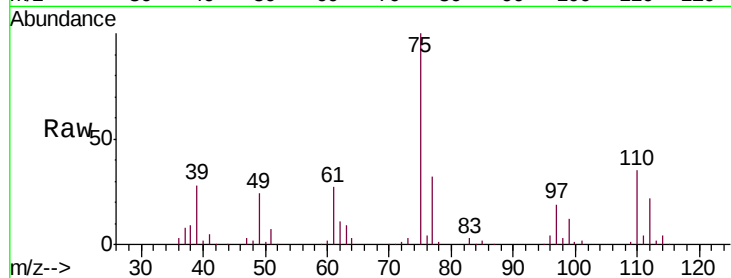




#60
1,2,3-Trichloropropane
Concen: 49.881 ug/L
RT: 10.85 min Scan# 2957
Delta R.T. 0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

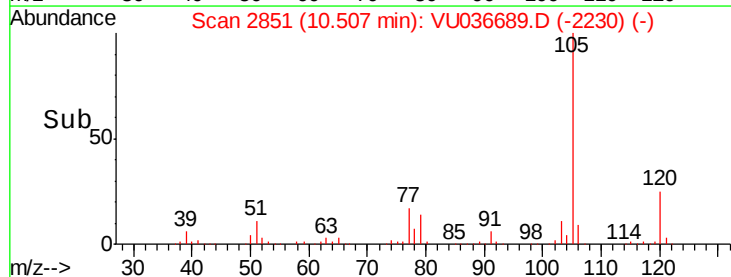
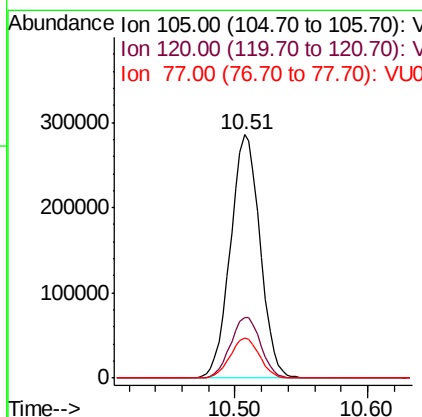
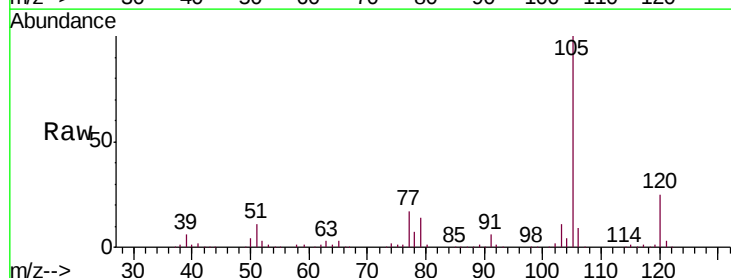
Instrument :
MSVOA_U
ClientSampleId :
VSTD050107

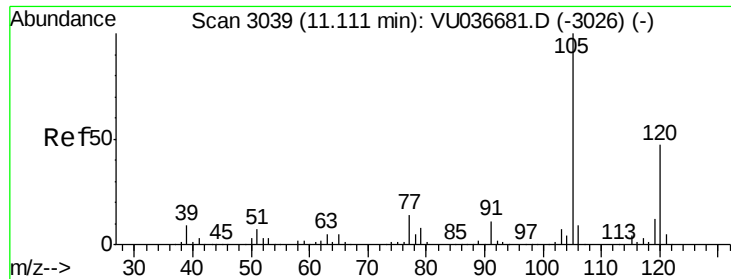
Tgt Ion: 75 Resp: 134091
Ion Ratio Lower Upper
75 100
77 32.1 26.1 39.1
110 34.3 26.9 40.3



#61
Isopropylbenzene
Concen: 51.998 ug/L
RT: 10.51 min Scan# 2851
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Tgt Ion: 105 Resp: 442485
Ion Ratio Lower Upper
105 100
120 25.5 20.2 30.4
77 16.4 13.0 19.6

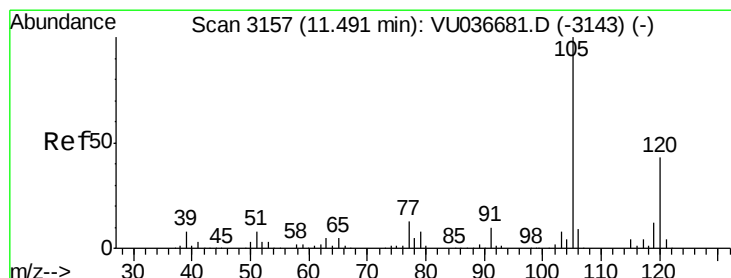
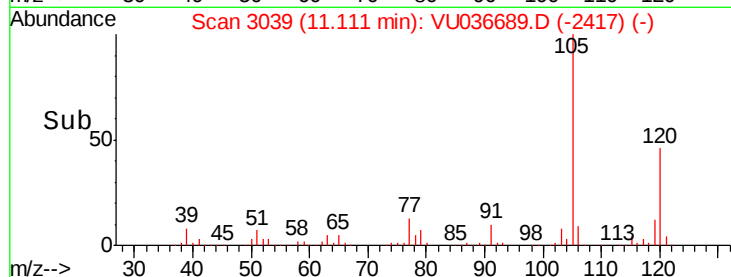
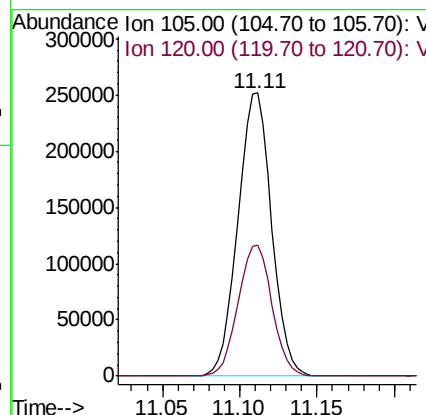
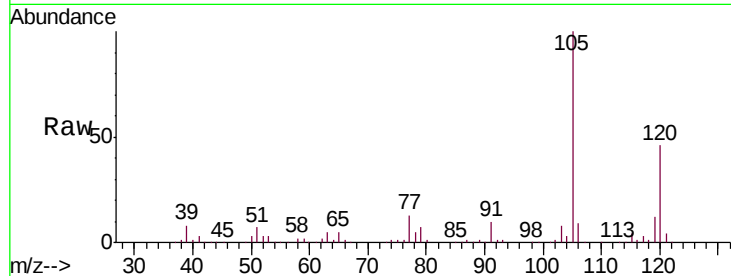




#62
 1,3,5-Trimethylbenzene
 Concen: 51.975 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. -0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

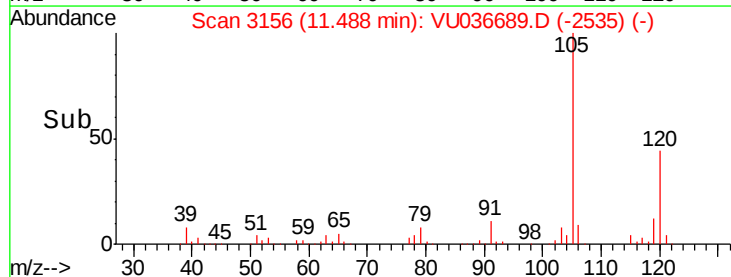
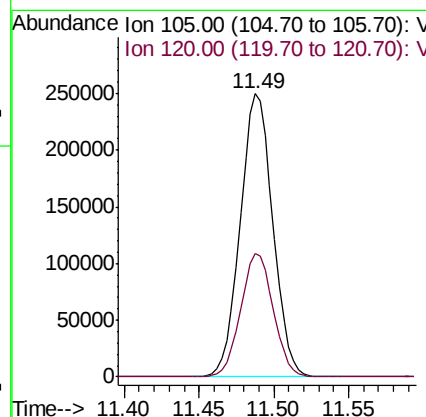
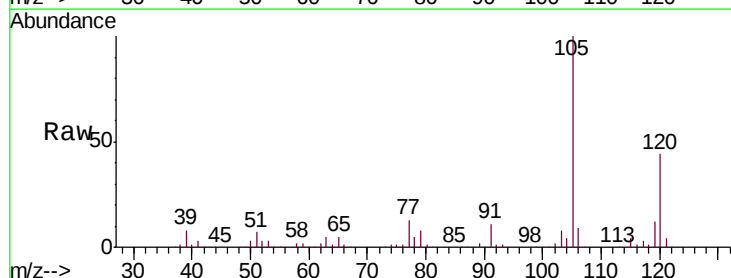
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050107

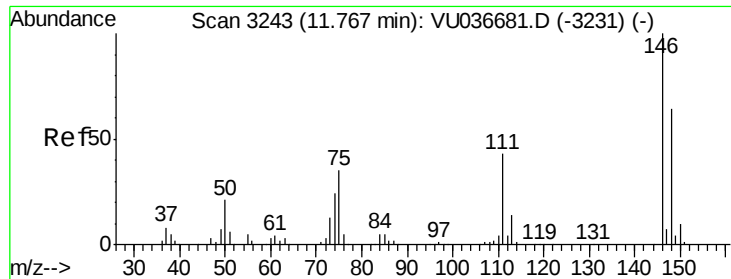
Tgt Ion:105 Resp: 379199
 Ion Ratio Lower Upper
 105 100
 120 46.7 37.1 55.7



#63
 1,2,4-Trimethylbenzene
 Concen: 51.892 ug/L
 RT: 11.49 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

Tgt Ion:105 Resp: 378045
 Ion Ratio Lower Upper
 105 100
 120 43.6 34.7 52.1

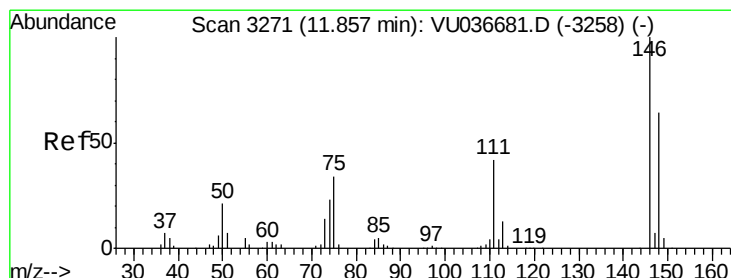
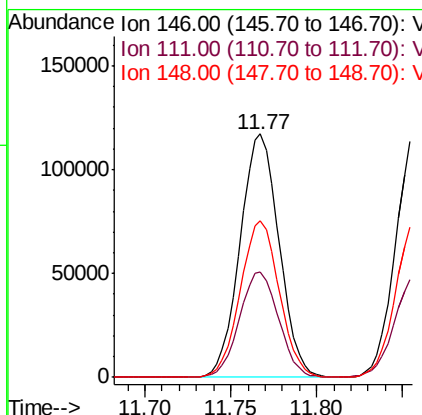
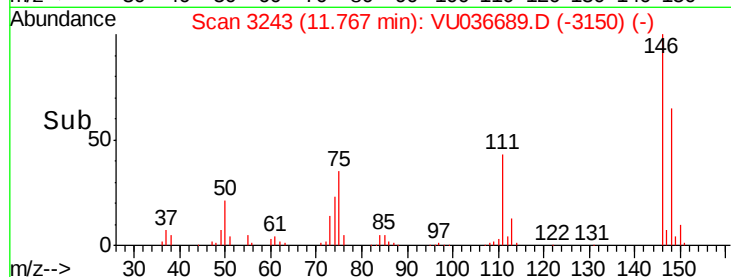
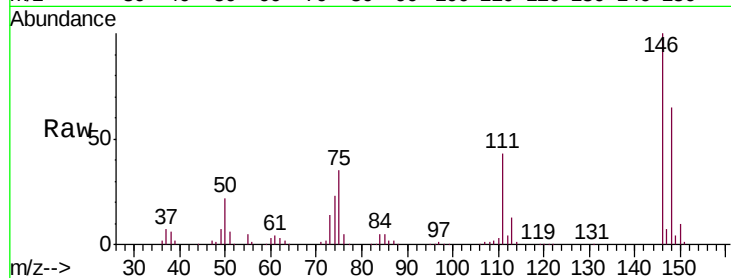




#64
 1,3-Dichlorobenzene
 Concen: 51.649 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. -0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

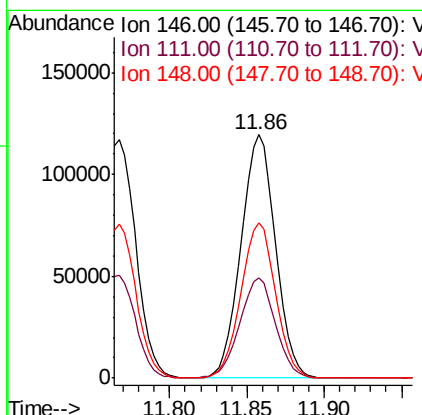
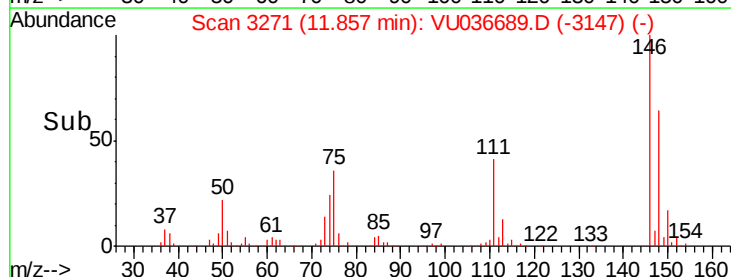
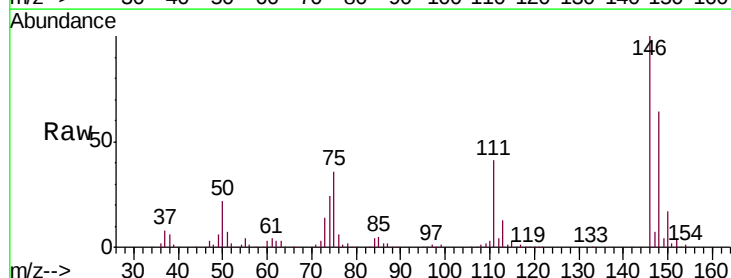
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050107

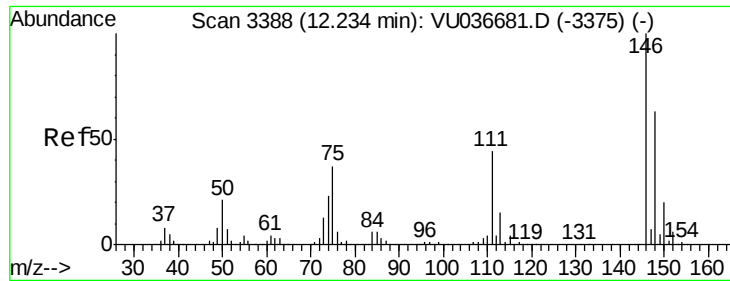
Tgt Ion:146 Resp: 184834
 Ion Ratio Lower Upper
 146 100
 111 43.2 30.4 56.4
 148 64.5 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 51.646 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. -0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

Tgt Ion:146 Resp: 186075
 Ion Ratio Lower Upper
 146 100
 111 41.3 29.3 54.3
 148 63.7 44.8 83.2

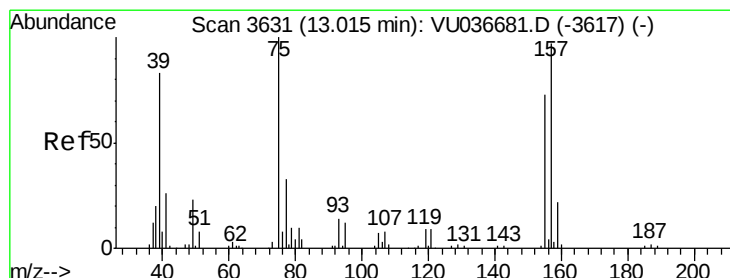
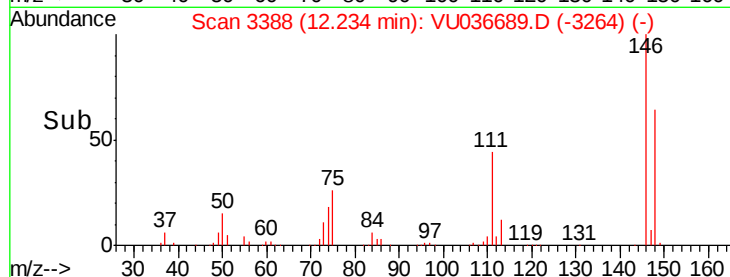
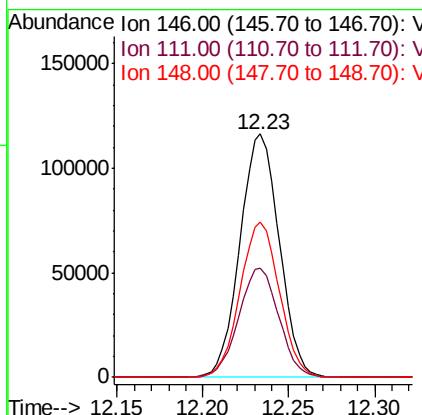
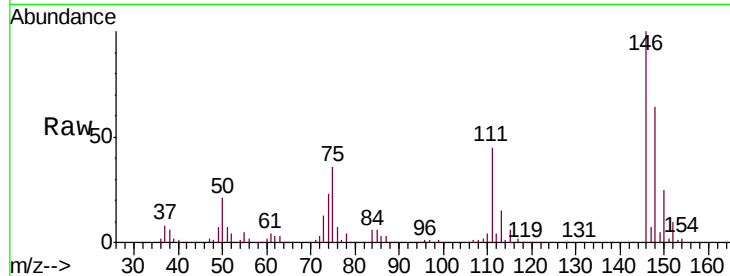




#67
 1,2-Dichlorobenzene
 Concen: 51.012 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

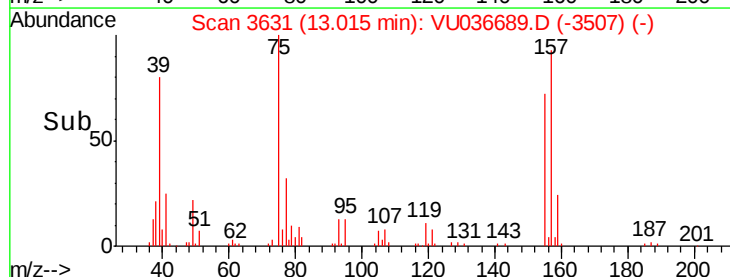
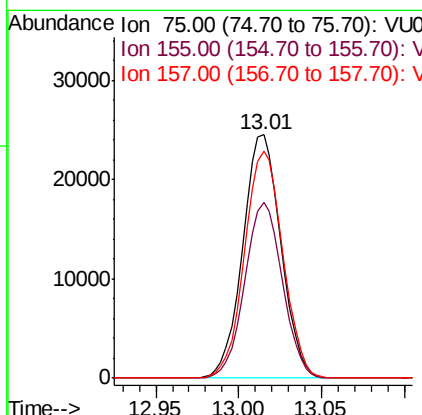
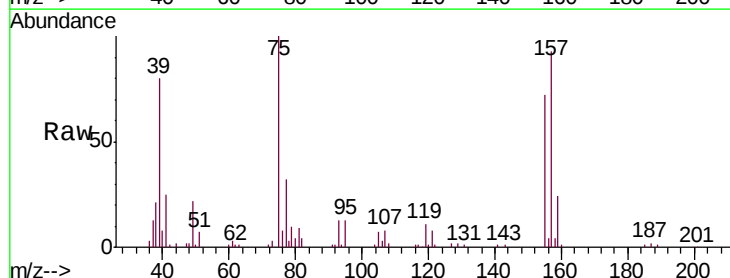
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050107

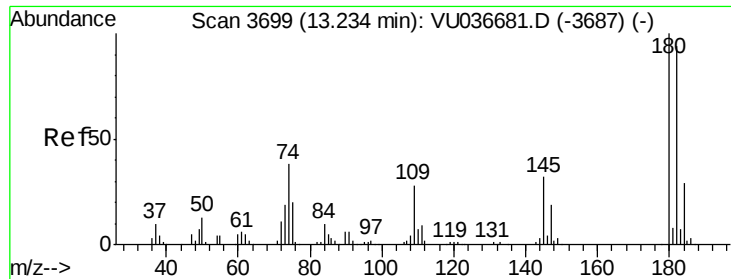
Tgt Ion:146 Resp: 184832
 Ion Ratio Lower Upper
 146 100
 111 45.1 35.4 53.0
 148 63.8 50.4 75.6



#68
 1,2-Dibromo-3-chloropropane
 Concen: 50.902 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU036689.D
 Acq: 06 Feb 2020 16:35

Tgt Ion: 75 Resp: 39104
 Ion Ratio Lower Upper
 75 100
 155 72.0 58.7 88.1
 157 93.4 77.8 116.6





#69

1,3,5-Trichlorobenzene

Concen: 54.047 ug/L

RT: 13.23 min Scan# 3699

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD050107

Tgt Ion:180 Resp: 134121

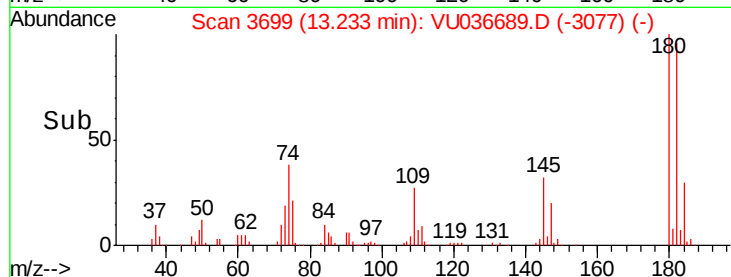
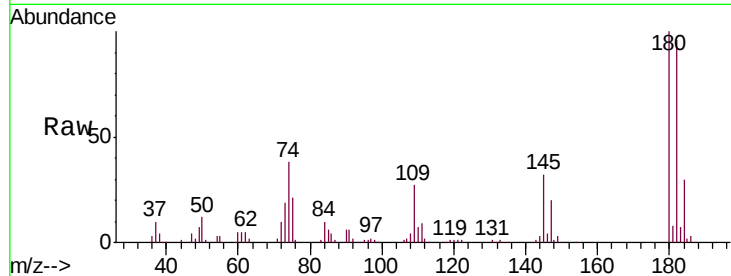
Ion Ratio Lower Upper

180 100

182 94.8 76.2 114.4

184 30.2 23.8 35.6

145 31.4 25.0 37.6

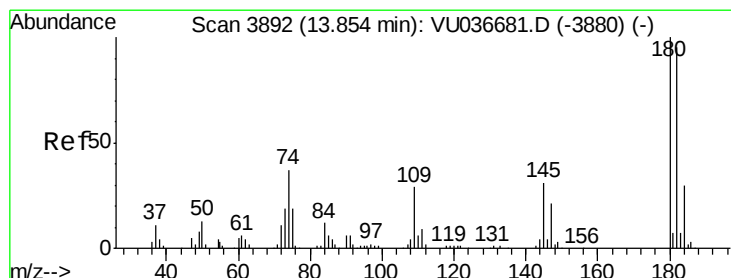
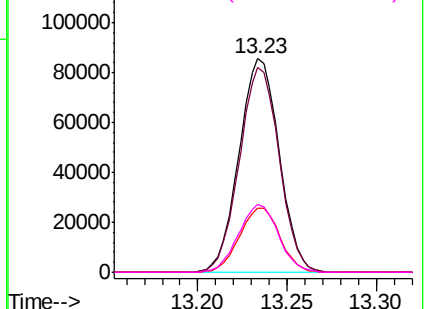


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70

1,2,4-trichlorobenzene

Concen: 56.790 ug/L

RT: 13.85 min Scan# 3892

Delta R.T. -0.00 min

Lab File: VU036689.D

Acq: 06 Feb 2020 16:35

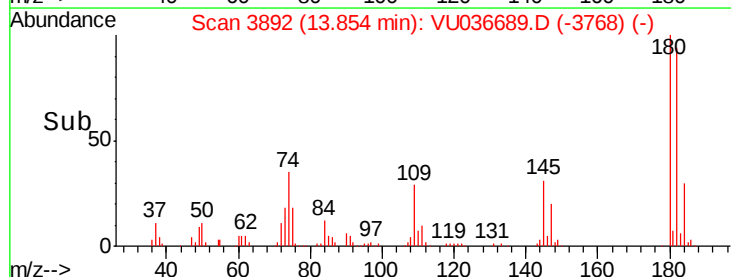
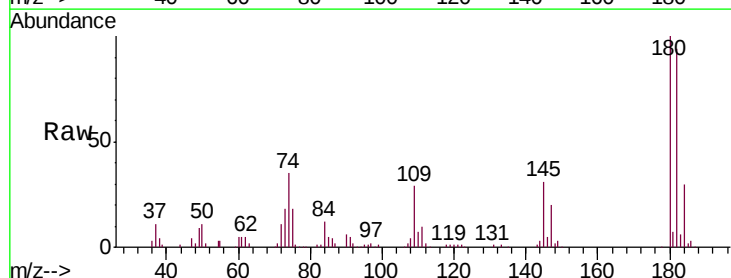
Tgt Ion:180 Resp: 117513

Ion Ratio Lower Upper

180 100

182 94.6 76.1 114.1

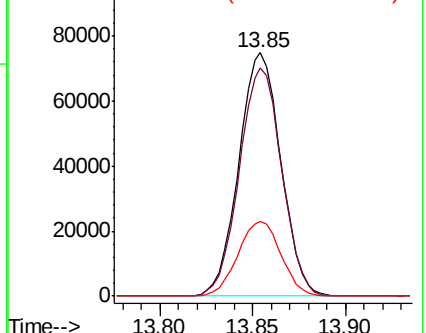
145 31.5 25.7 38.5

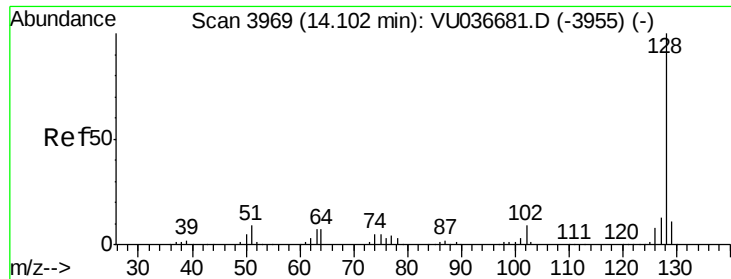


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

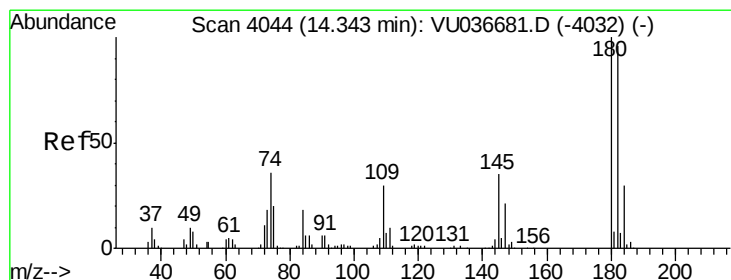
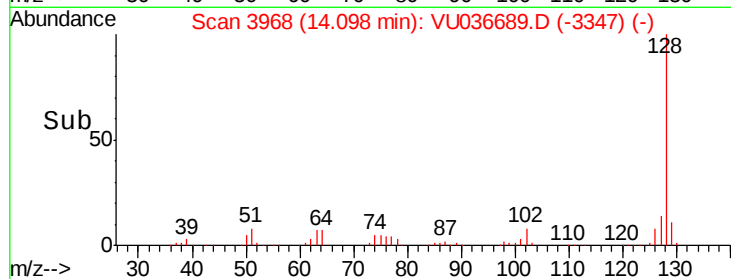
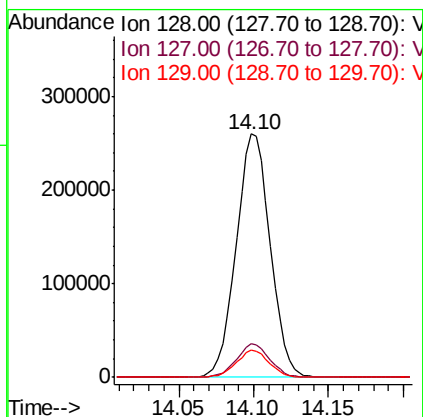
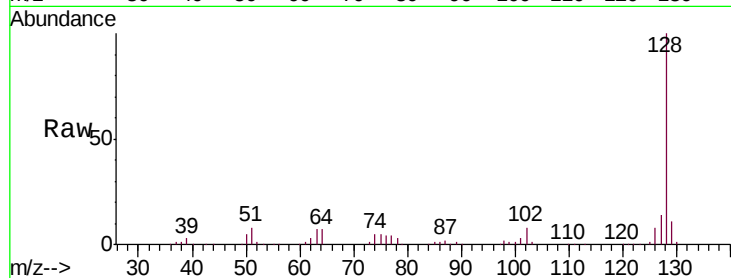




#71
Naphthalene
Concen: 56.298 ug/L
RT: 14.10 min Scan# 3968
Delta R.T. -0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Instrument :
MSVOA_U
ClientSampleId :
VSTD050107

Tgt Ion:128 Resp: 410640
Ion Ratio Lower Upper
128 100
127 13.6 10.6 16.0
129 10.8 8.5 12.7



#72
1,2,3-Trichlorobenzene
Concen: 55.592 ug/L
RT: 14.34 min Scan# 4044
Delta R.T. 0.00 min
Lab File: VU036689.D
Acq: 06 Feb 2020 16:35

Tgt Ion:180 Resp: 114605
Ion Ratio Lower Upper
180 100
182 94.7 76.8 115.2
145 34.3 27.5 41.3

