

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035940.D
 Acq On : 03 Dec 2019 10:36
 Operator : JC/SP
 Sample : VSTD0.504
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Quant Time: Dec 03 18:02:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 03 17:59:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	318237	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	330027	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	116593	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	15773	0.47	ug/L	0.00
7) Chloroethane-d5	1.93	69	12519	0.46	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	23079	0.42	ug/L	0.00
20) 2-Butanone-d5	4.71	46	27195	3.85	ug/L	0.01
24) Chloroform-d	5.11	84	22243	0.43	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	12147	0.45	ug/L	0.00
32) Benzene-d6	5.77	84	39177	0.38	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	12760	0.39	ug/L	0.00
41) Toluene-d8	7.93	98	33473	0.35	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.22	79	5245	0.40	ug/L	0.00
46) 2-Hexanone-d5	8.68	63	16892	3.25	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	12426	0.45	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	11705	0.51	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	13984	0.412 ug/L	91
3) Chloromethane	1.54	50	17209	0.442 ug/L	90
5) Vinyl chloride	1.62	62	16830	0.422 ug/L	87
6) Bromomethane	1.87	94	10234	0.450 ug/L	93
8) Chloroethane	1.95	64	11180	0.486 ug/L	95
9) Trichlorofluoromethane	2.16	101	20026	0.414 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	10554	0.373 ug/L	96
12) 1,1-Dichloroethene	2.61	96	9553	0.353 ug/L	84
13) Acetone	2.69	43	35606	6.800 ug/L	100
14) Carbon disulfide	2.82	76	34554	0.392 ug/L #	94
15) Methyl Acetate	3.00	43	5566	0.469 ug/L #	89
16) Methylene chloride	3.08	84	24706	0.761 ug/L	94
17) Methyl tert-butyl Ether	3.42	73	23274	0.370 ug/L #	88
18) trans-1,2-Dichloroethene	3.39	96	10617	0.382 ug/L	95
19) 1,1-Dichloroethane	3.92	63	20776	0.399 ug/L	96
21) 2-Butanone	4.78	43	33651	4.407 ug/L	97
22) cis-1,2-Dichloroethene	4.72	96	10786	0.354 ug/L	95
23) Bromochloromethane	5.02	128	5129	0.355 ug/L #	95
25) Chloroform	5.13	83	21922	0.387 ug/L	97
27) 1,2-Dichloroethane	5.84	62	13779	0.432 ug/L	96
29) 1,1,1-Trichloroethane	5.36	97	17887	0.421 ug/L	98
30) Cyclohexane	5.43	56	14681	0.345 ug/L	96
31) Carbon tetrachloride	5.57	117	16011	0.421 ug/L	96
33) Benzene	5.82	78	43443	0.381 ug/L	100
34) Trichloroethene	6.58	95	12007	0.416 ug/L	94
35) Methylcyclohexane	6.80	83	14450	0.328 ug/L	95
37) 1,2-Dichloropropane	6.83	63	11917	0.397 ug/L	98
38) Bromodichloromethane	7.14	83	14620	0.402 ug/L #	91
39) cis-1,3-Dichloropropene	7.64	75	14181	0.334 ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	68911	3.971 ug/L	94

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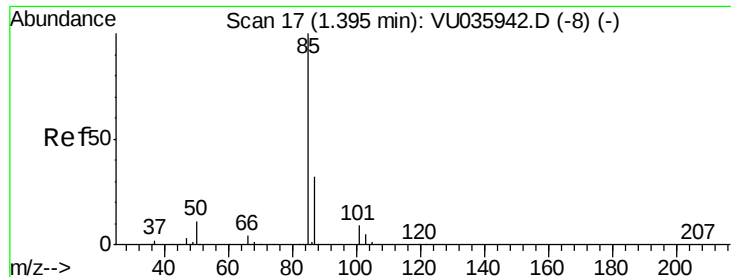
Instrument :
 MSVOA_U
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	39924	0.335	ug/L	100
44) trans-1,3-Dichloropropene	8.25	75	11926	0.350	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	8183	0.383	ug/L	95
47) Tetrachloroethene	8.58	164	8932	0.359	ug/L	91
48) 2-Hexanone	8.73	43	49815	3.999	ug/L #	87
49) Dibromochloromethane	8.84	129	9588	0.367	ug/L	99
50) 1,2-Dibromoethane	8.96	107	8013	0.394	ug/L #	97
51) Chlorobenzene	9.48	112	30376	0.393	ug/L	98
52) Ethylbenzene	9.60	91	40876	0.329	ug/L	94
53) m,p-Xylene	9.72	106	14068	0.298	ug/L	90
54) o-Xylene	10.13	106	13851	0.306	ug/L	100
55) Styrene	10.14	104	20813	0.277	ug/L	97
56) Isopropylbenzene	10.51	105	36067	0.303	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.81	83	12082	0.431	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	8772	0.444	ug/L	99
61) Bromoform	10.32	173	6160	0.583	ug/L	97
62) 1,3-Dichlorobenzene	11.77	146	19417	0.495	ug/L	97
63) 1,4-Dichlorobenzene	11.86	146	19259	0.510	ug/L	95
65) 1,2-Dichlorobenzene	12.24	146	19585	0.531	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	1550	0.641	ug/L #	78
67) 1,3,5-Trichlorobenzene	13.24	180	11899	0.471	ug/L	97
68) 1,2,4-trichlorobenzene	13.86	180	4540	0.299	ug/L	96
69) Naphthalene	14.11	128	4970	0.273	ug/L #	89
70) 1,2,3-Trichlorobenzene	14.35	180	5049	0.345	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 0.412 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

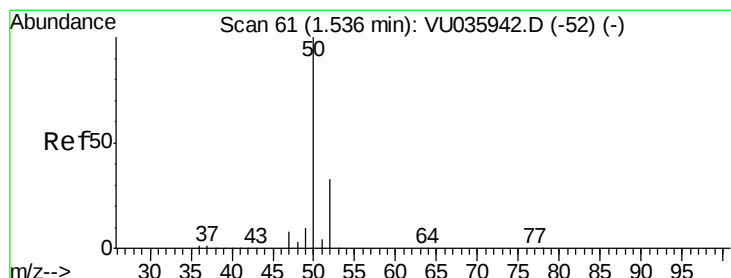
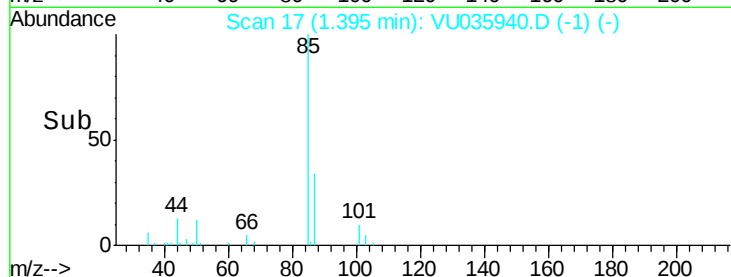
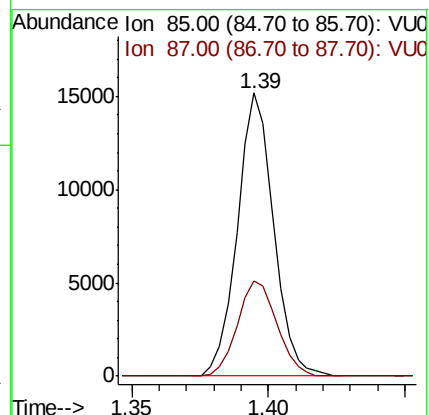
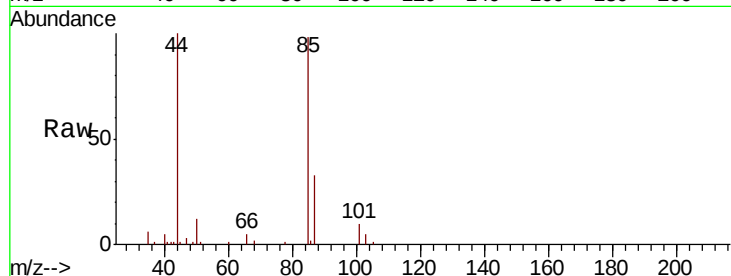
VSTD0.504

Tot Ion: 85 Resp: 13984

Ion Ratio Lower Upper

85 100

87 36.5 25.4 38.2



#3

Chloromethane

Concen: 0.442 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035940.D

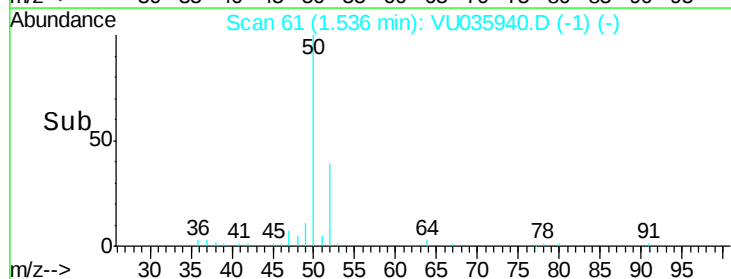
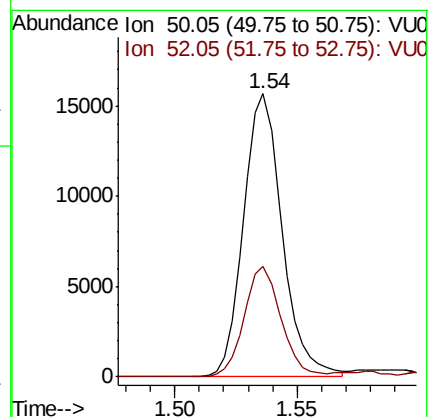
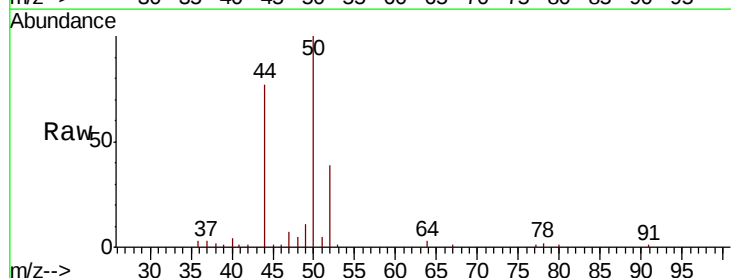
Acq: 03 Dec 2019 10:36

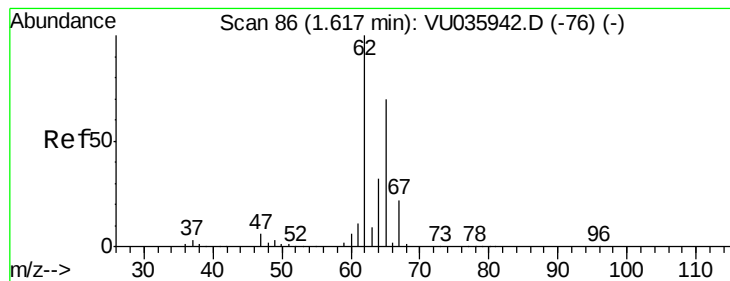
Tgt Ion: 50 Resp: 17209

Ion Ratio Lower Upper

50 100

52 38.9 23.1 42.9





#5

Vinyl chloride

Concen: 0.422 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

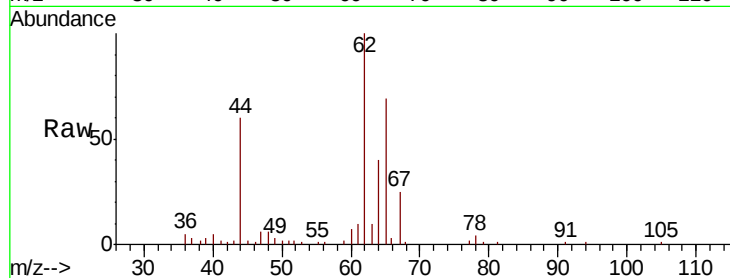
VSTD0.504

Tot Ion: 62 Resp: 16830

Ion Ratio Lower Upper

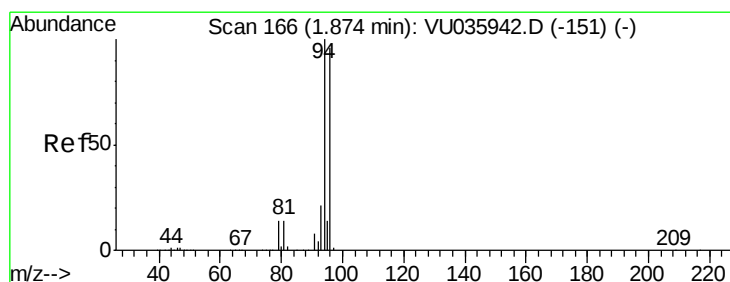
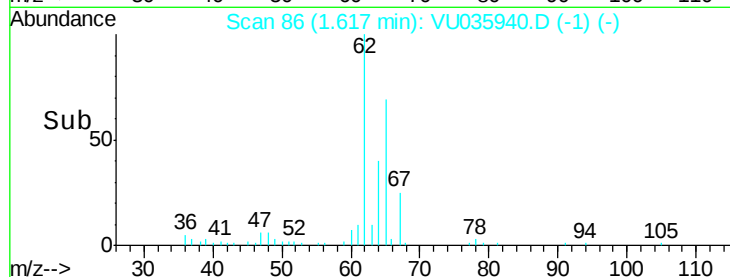
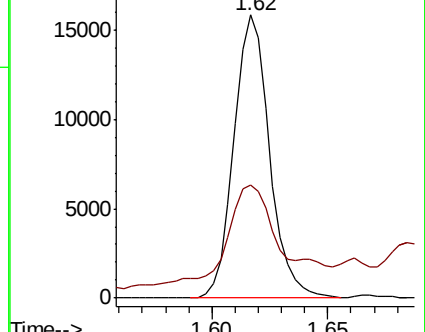
62 100

64 40.0 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU035940.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU035940.D (-76) (-)



#6

Bromomethane

Concen: 0.450 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035940.D

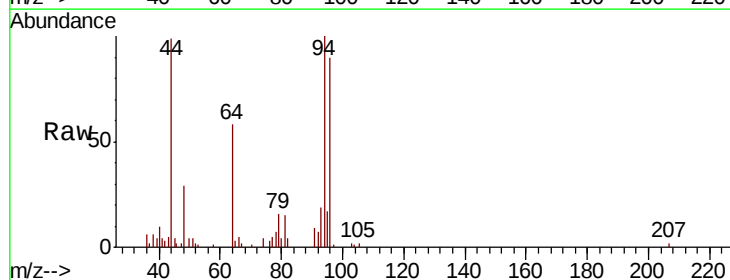
Acq: 03 Dec 2019 10:36

Tgt Ion: 94 Resp: 10234

Ion Ratio Lower Upper

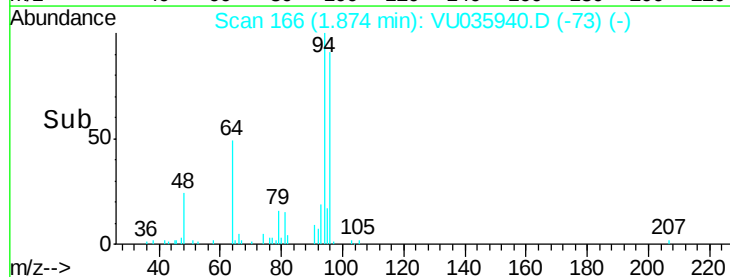
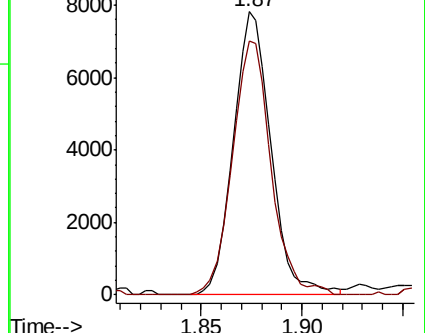
94 100

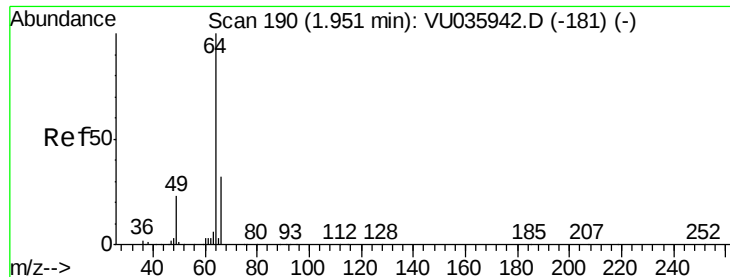
96 89.7 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU035940.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU035940.D (-151) (-)





#8

Chloroethane

Concen: 0.486 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

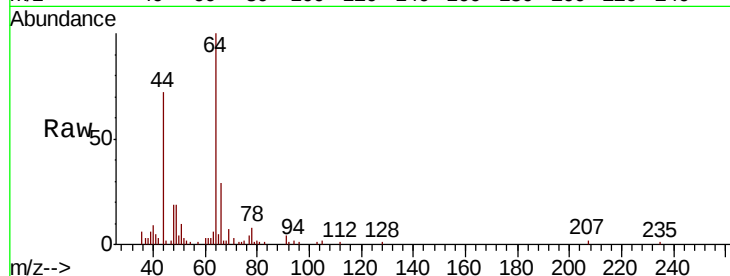
VSTD0.504

Tot Ion: 64 Resp: 11180

Ion Ratio Lower Upper

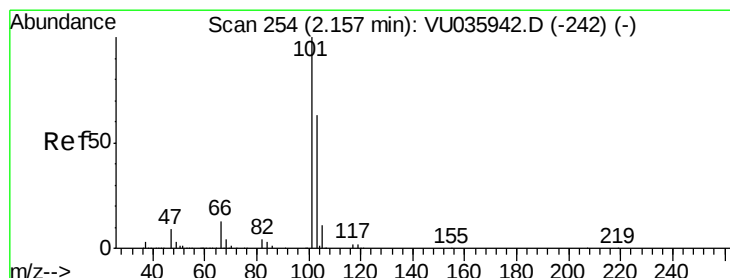
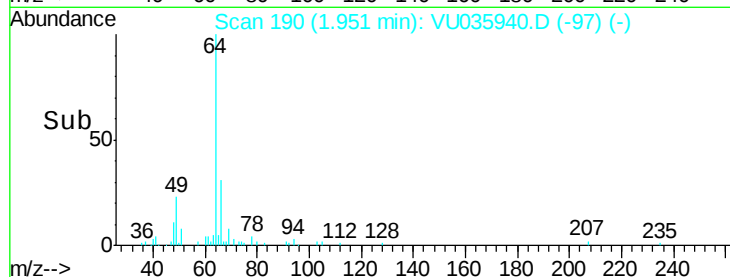
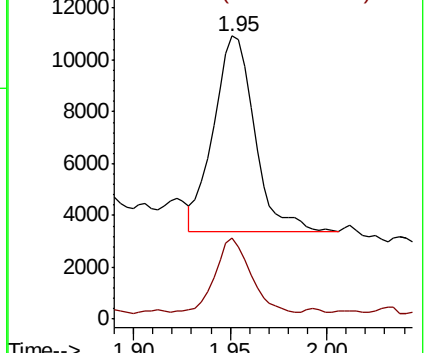
64 100

66 28.7 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 0.414 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU035940.D

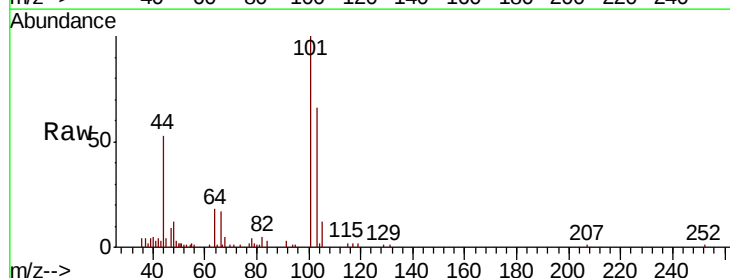
Acq: 03 Dec 2019 10:36

Tgt Ion: 101 Resp: 20026

Ion Ratio Lower Upper

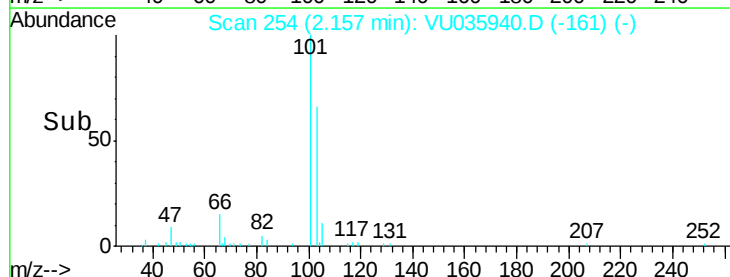
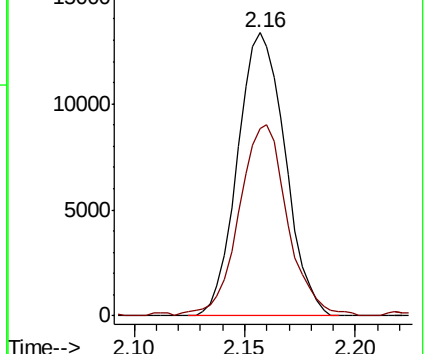
101 100

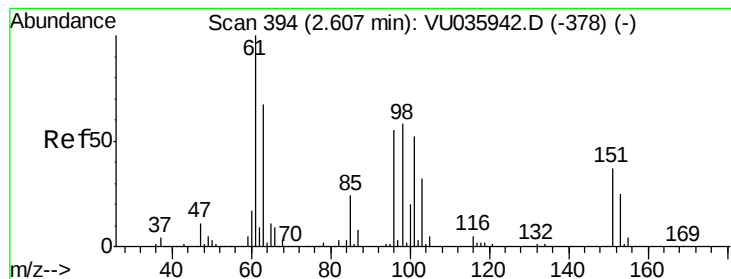
103 68.8 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.373 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

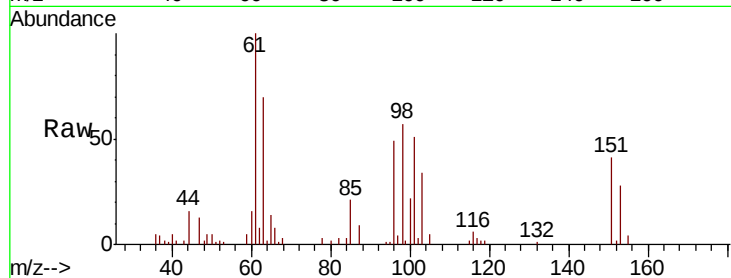
Tot Ion:101 Resp: 10554

Ion Ratio Lower Upper

101 100

85 41.3 35.5 53.3

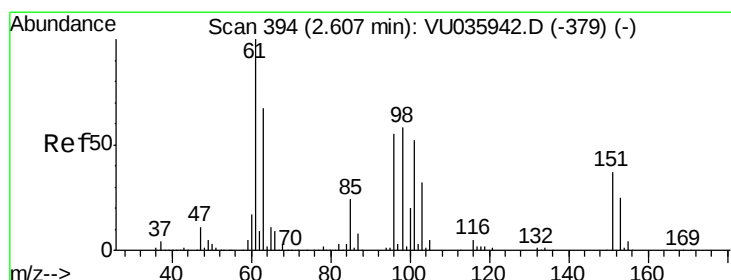
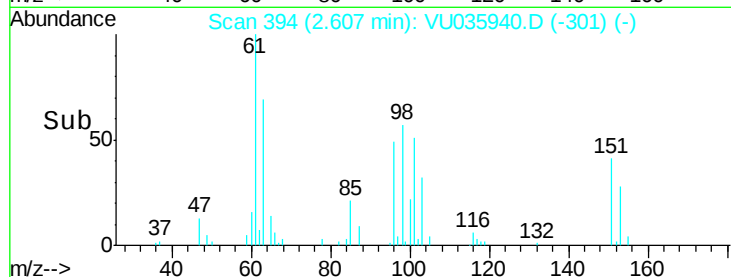
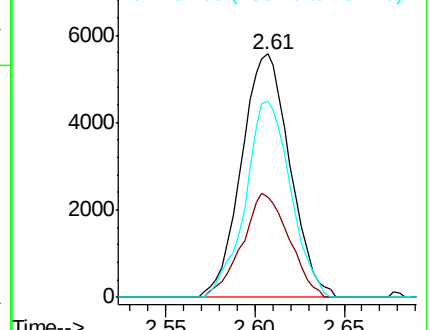
151 75.1 57.5 86.3



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: 0.353 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

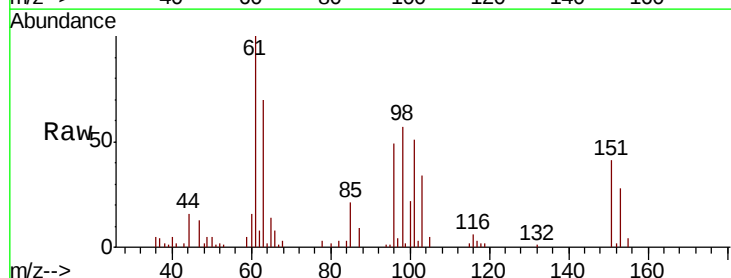
Tgt Ion: 96 Resp: 9553

Ion Ratio Lower Upper

96 100

61 203.2 127.1 236.1

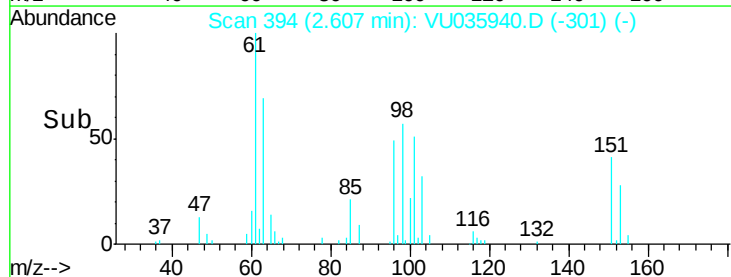
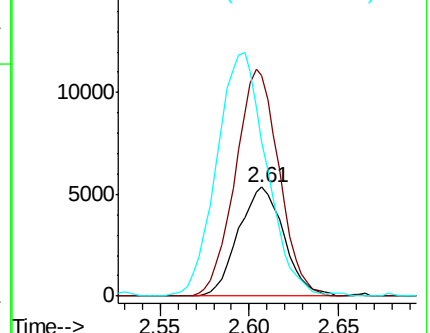
63 142.1 86.0 159.8

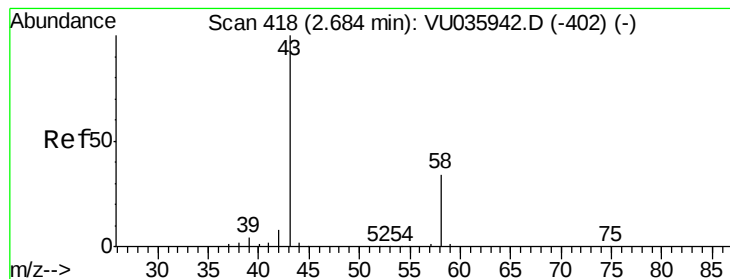


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.800 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.00 min

Lab File: VU035940.D

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ClientSampleId :

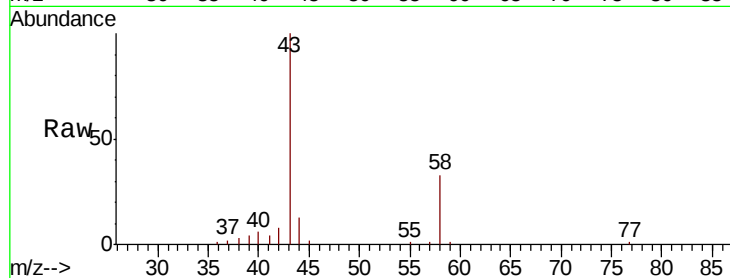
VSTD0.504

Tot Ion: 43 Resp: 35606

Ion Ratio Lower Upper

43 100

58 34.1 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU035940.D (-325) (-)

Ion 58.05 (57.75 to 58.75): VU035940.D (-325) (-)

2.69

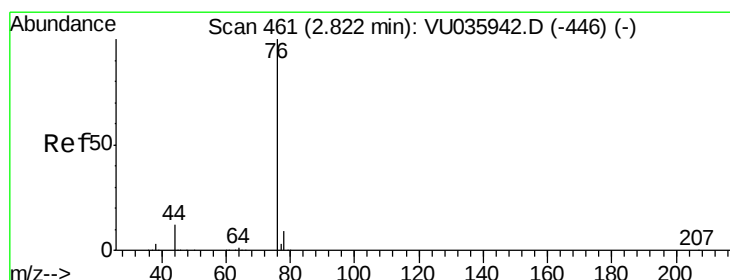
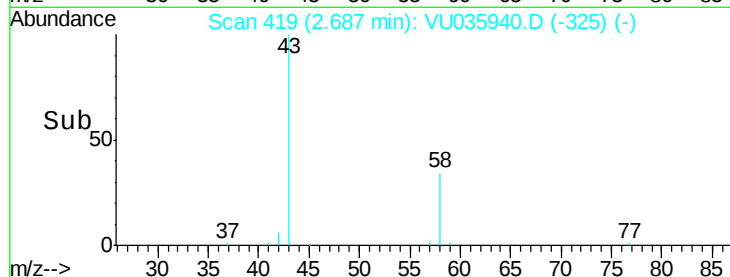
15000

10000

5000

0

Time-->



#14

Carbon disulfide

Concen: 0.392 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU035940.D

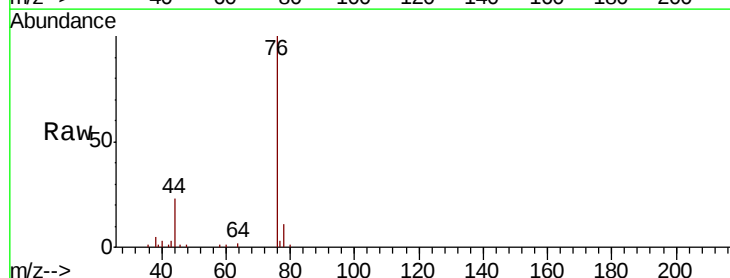
Acq: 03 Dec 2019 10:36

Tgt Ion: 76 Resp: 34554

Ion Ratio Lower Upper

76 100

78 10.7 6.9 10.3#



Abundance Ion 76.05 (75.75 to 76.75): VU035940.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU035940.D (-368) (-)

2.82

20000

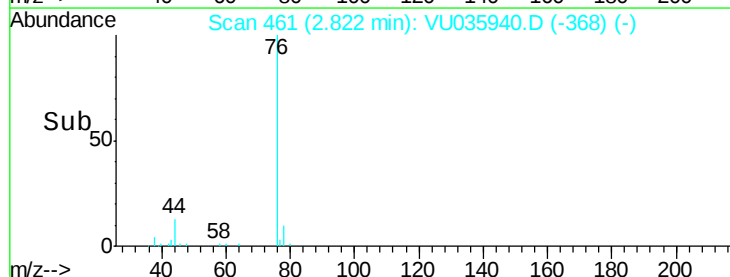
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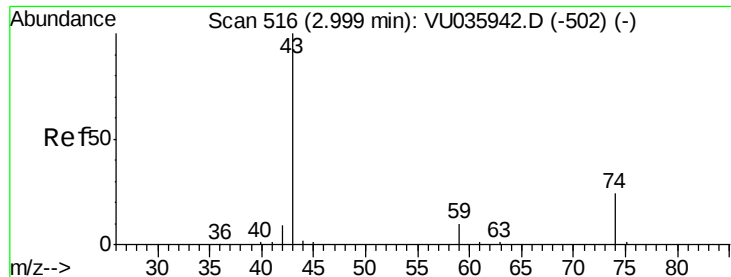
10000

5000

0

Time-->





#15

Methvl Acetate

Concen: 0.469 ug/L

RT: 3.00 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

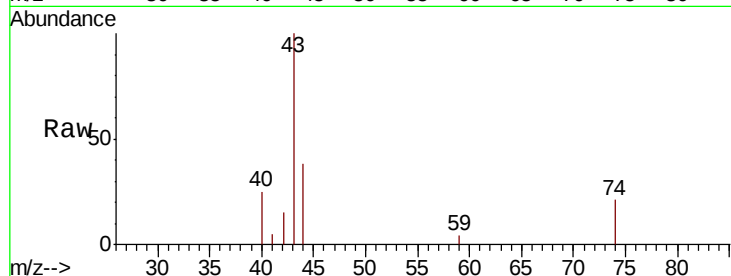
VSTD0.504

Tot Ion: 43 Resp: 5566

Ion Ratio Lower Upper

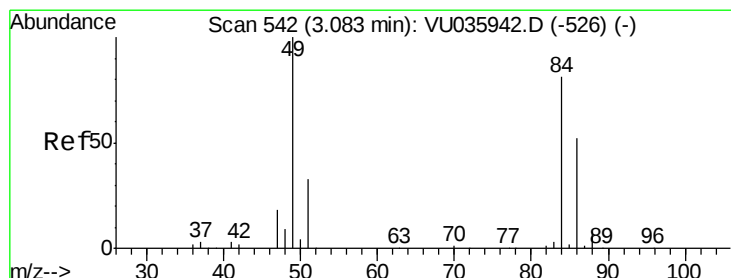
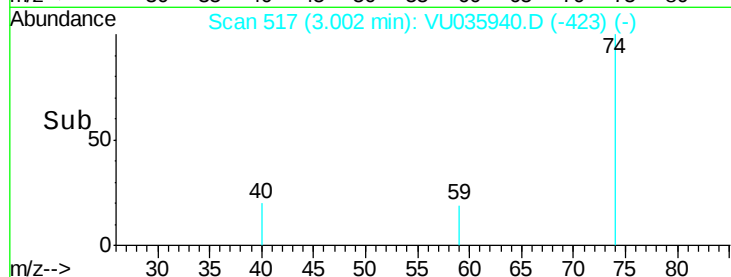
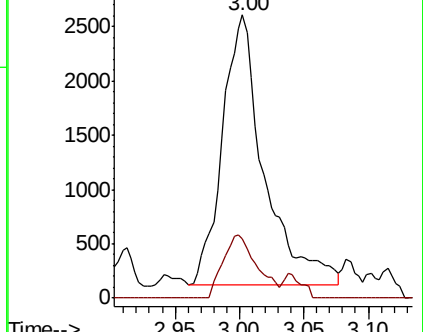
43 100

74 19.3 20.0 30.0#



Abundance Ion 43.05 (42.75 to 43.75): VU035940.D (-423) (-)

Ion 74.05 (73.75 to 74.75): VU035940.D (-423) (-)



#16

Methylene chloride

Concen: 0.761 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

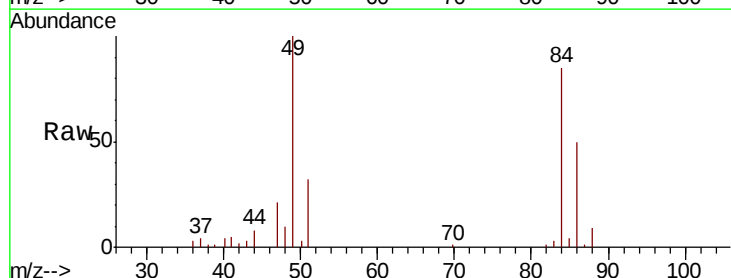
Tgt Ion: 84 Resp: 24706

Ion Ratio Lower Upper

84 100

86 59.1 44.7 82.9

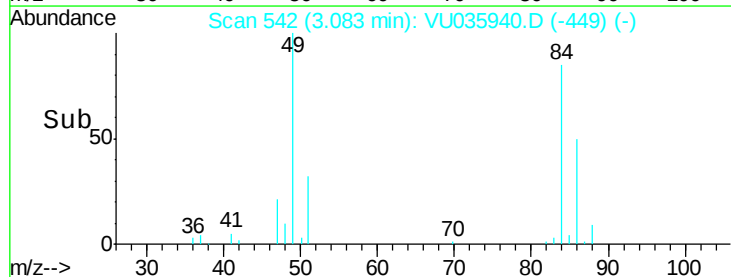
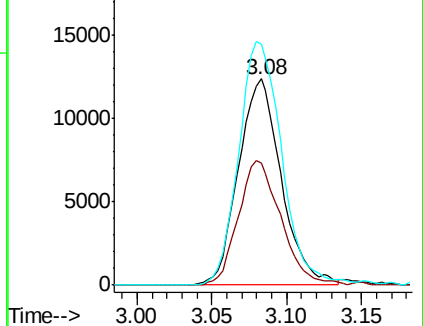
49 117.2 86.2 160.2

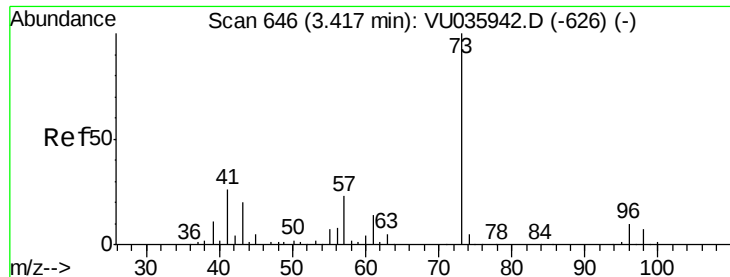


Abundance Ion 84.05 (83.75 to 84.75): VU035940.D (-449) (-)

Ion 86.00 (85.70 to 86.70): VU035940.D (-449) (-)

Ion 49.10 (48.80 to 49.80): VU035940.D (-449) (-)

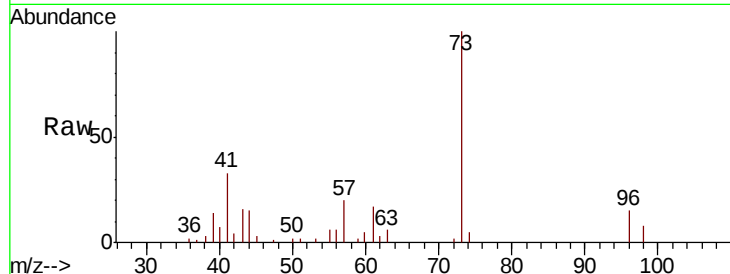




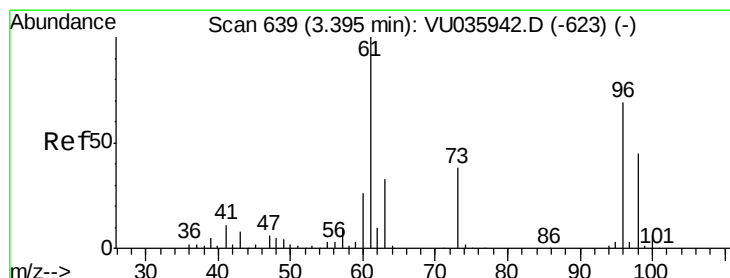
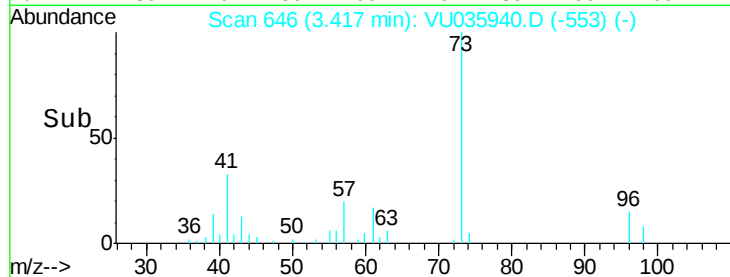
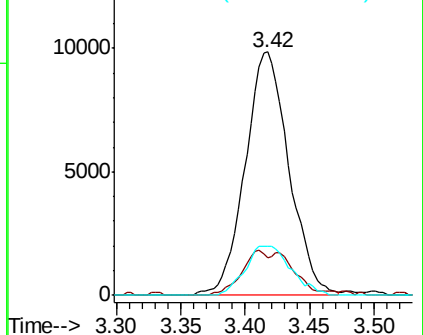
#17
Methvl tert-butvl Ether
Concen: 0.370 ug/L
RT: 3.42 min Scan# 646
Delta R.T. 0.00 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

Tot Ion: 73 Resp: 23274
Ion Ratio Lower Upper
73 100
43 10.9 15.9 23.9#
57 21.2 18.8 28.2

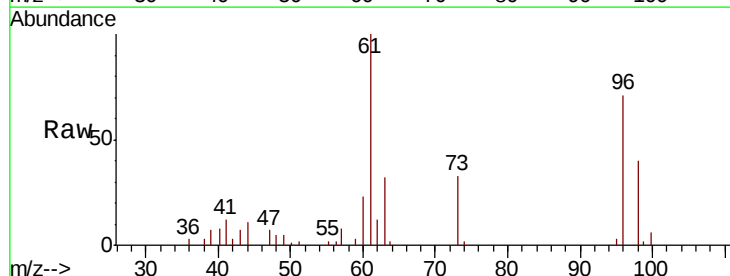


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

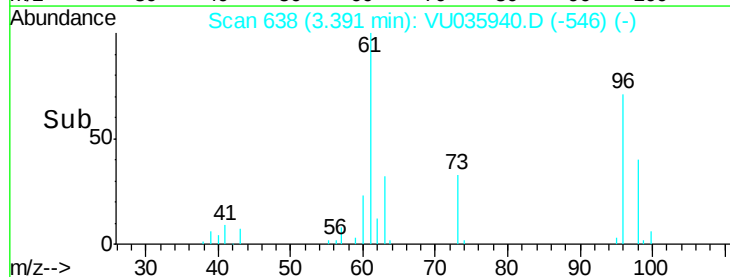
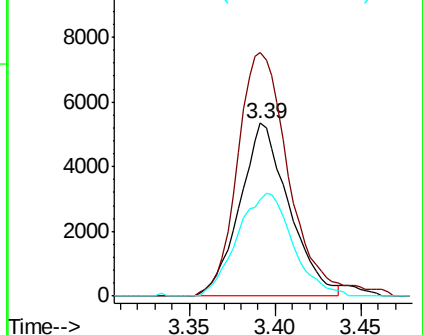


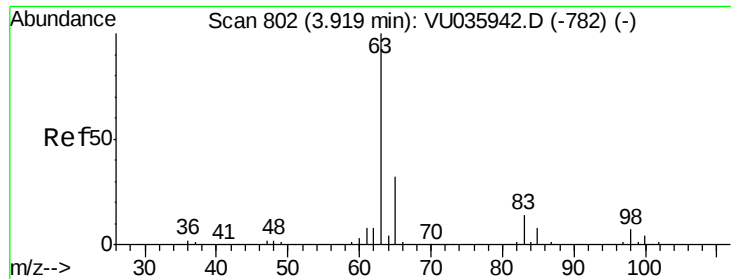
#18
trans-1,2-Dichloroethene
Concen: 0.382 ug/L
RT: 3.39 min Scan# 638
Delta R.T. -0.00 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

Tgt Ion: 96 Resp: 10617
Ion Ratio Lower Upper
96 100
61 140.9 101.2 187.8
98 55.7 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

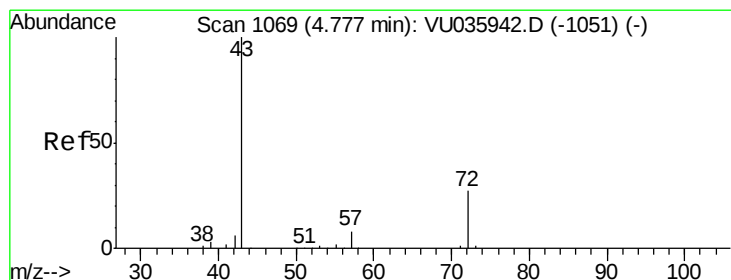
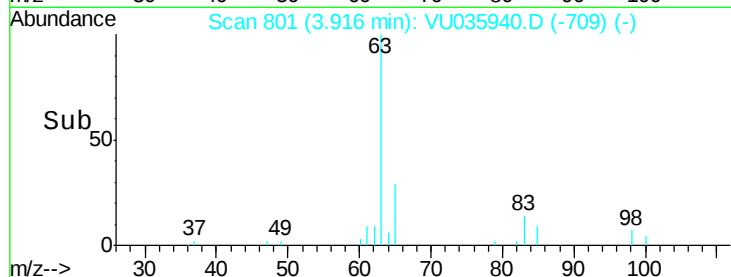
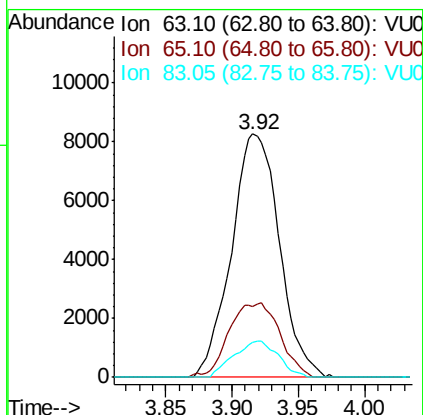
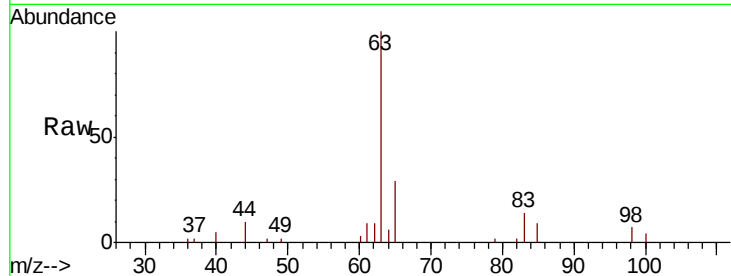




#19
 1,1-Dichloroethane
 Concen: 0.399 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: VU035940.D
 Acq: 03 Dec 2019 10:36

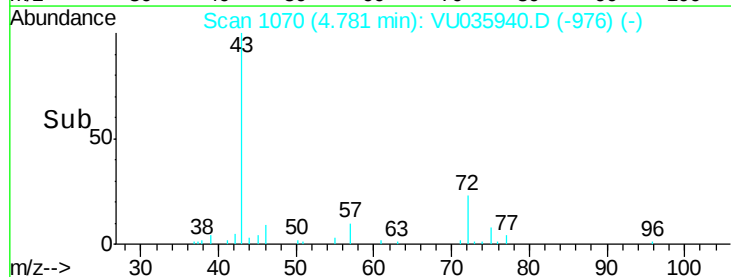
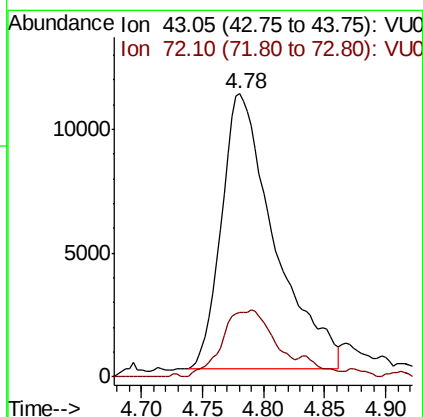
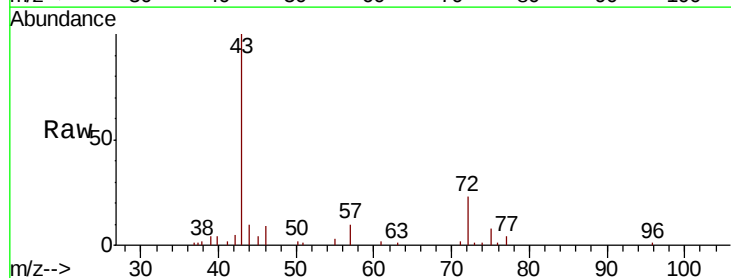
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

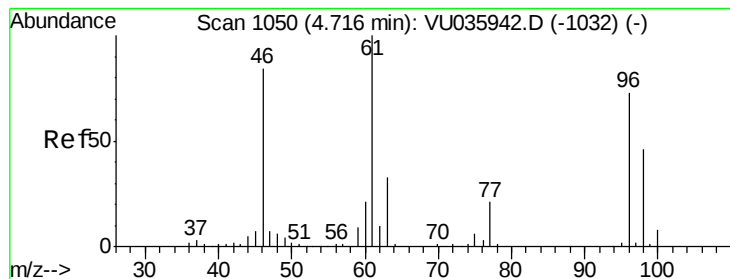
Tot Ion: 63 Resp: 20776
 Ion Ratio Lower Upper
 63 100
 65 29.0 22.4 41.6
 83 14.3 9.8 18.2



#21
 2-Butanone
 Concen: 4.407 ug/L
 RT: 4.78 min Scan# 1070
 Delta R.T. 0.00 min
 Lab File: VU035940.D
 Acq: 03 Dec 2019 10:36

Tgt Ion: 43 Resp: 33651
 Ion Ratio Lower Upper
 43 100
 72 23.5 12.6 37.8





#22

cis-1,2-Dichloroethene

Concen: 0.354 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

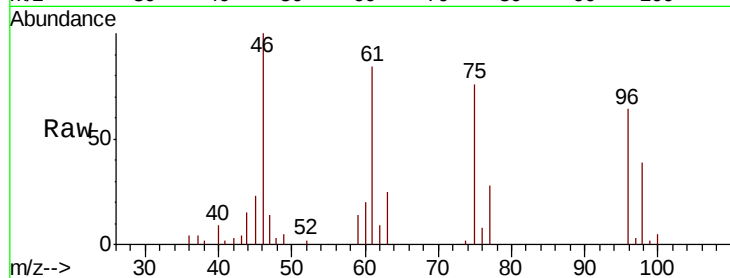
Tot Ion: 96 Resp: 10786

Ion Ratio Lower Upper

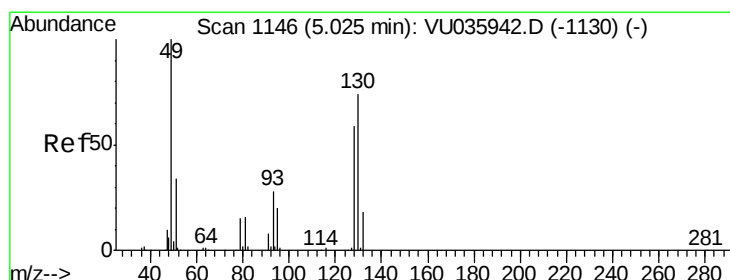
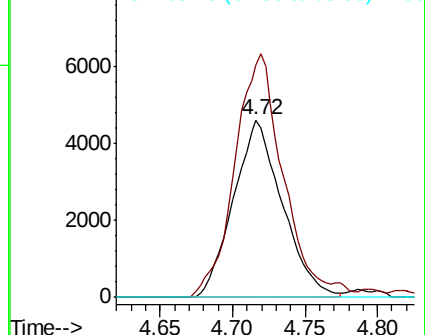
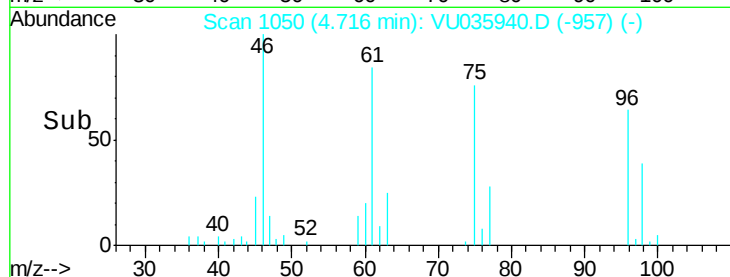
96 100

61 130.7 95.7 177.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035940.D (-1053) (-)



#23

Bromochloromethane

Concen: 0.355 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Tgt Ion: 128 Resp: 5129

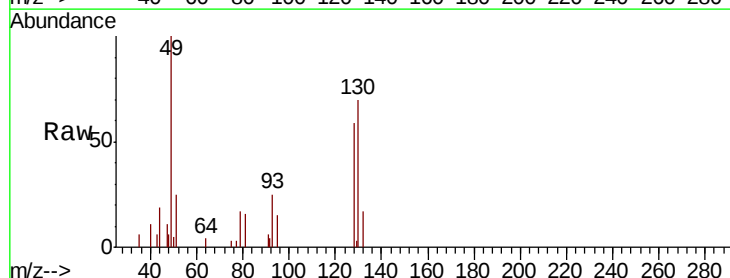
Ion Ratio Lower Upper

128 100

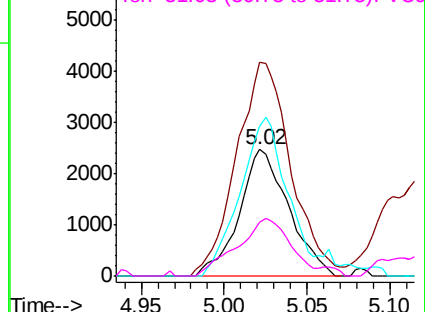
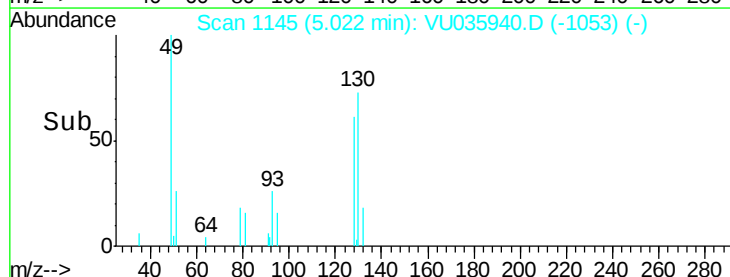
49 168.9 118.3 219.7

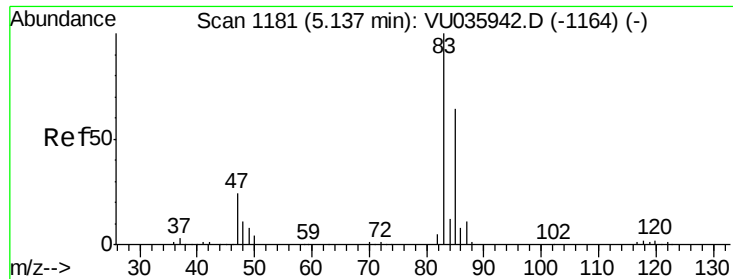
130 118.9 86.9 161.3

51 42.7 45.6 68.4#



Abundance Ion 127.90 (127.60 to 128.60): VU035940.D (-1153) (-)

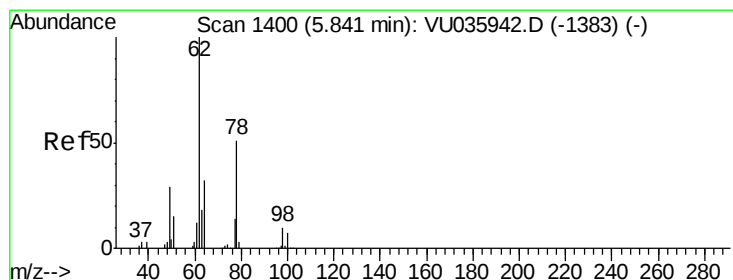
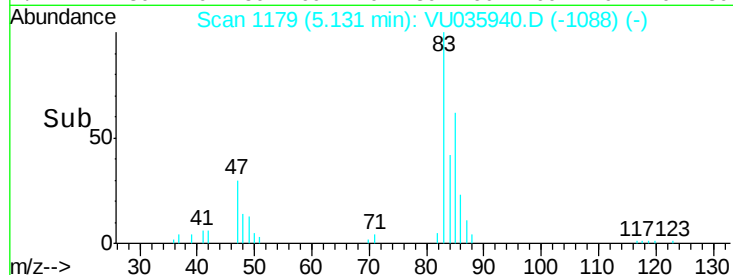
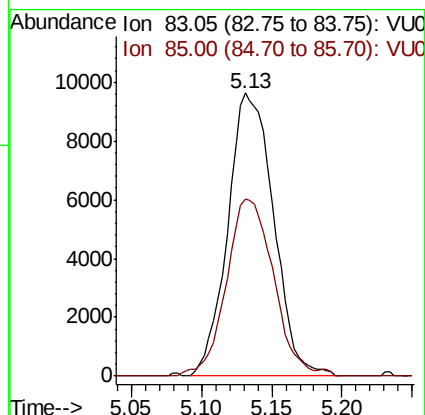
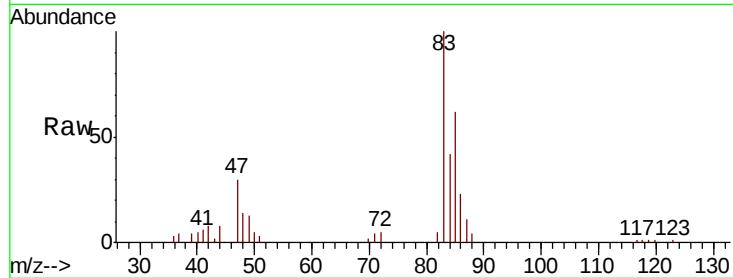




#25
Chloroform
Concen: 0.387 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. -0.01 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

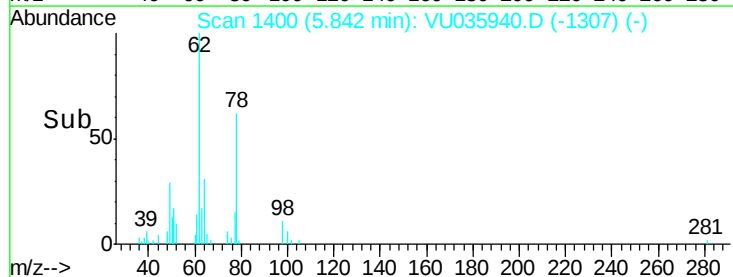
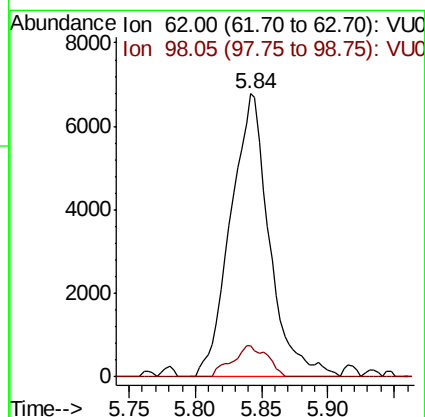
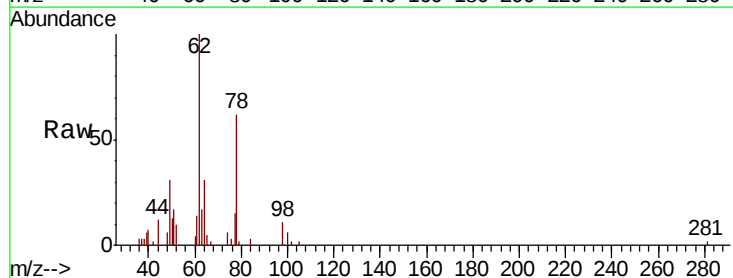
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

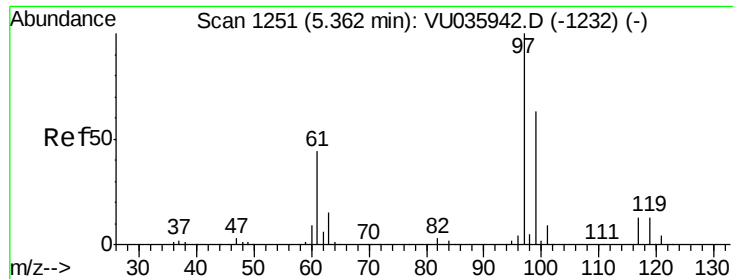
Tot Ion: 83 Resp: 21922
Ion Ratio Lower Upper
83 100
85 62.4 45.4 84.2



#27
1,2-Dichloroethane
Concen: 0.432 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

Tgt Ion: 62 Resp: 13779
Ion Ratio Lower Upper
62 100
98 11.0 7.6 11.4

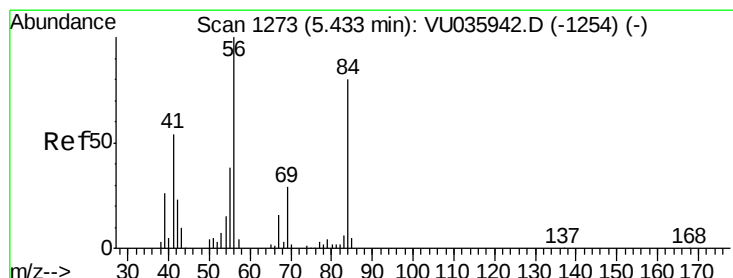
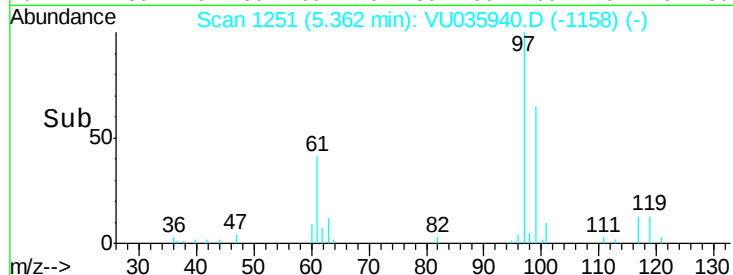
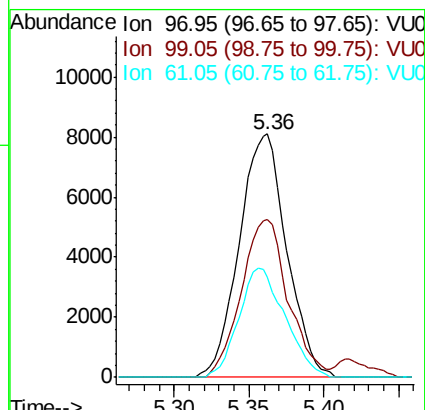
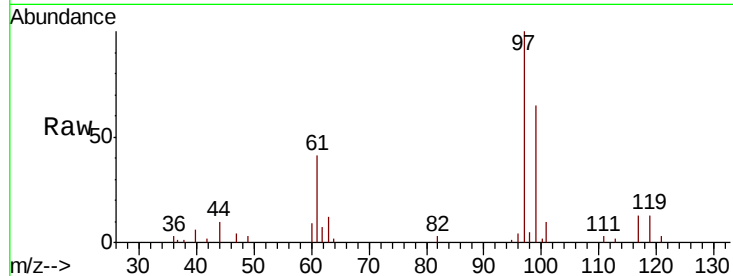




#29
 1,1,1-Trichloroethane
 Concen: 0.421 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU035940.D
 Acq: 03 Dec 2019 10:36

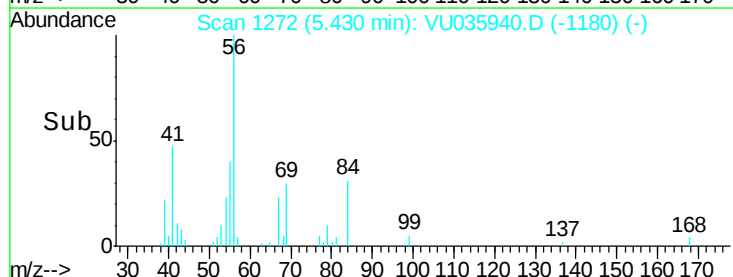
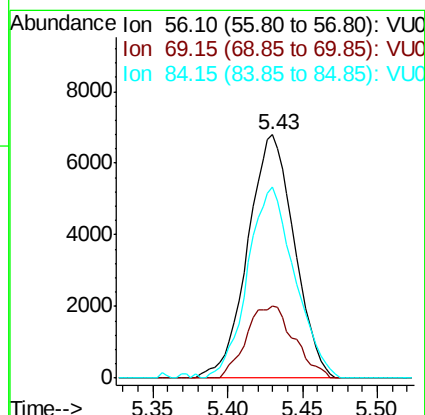
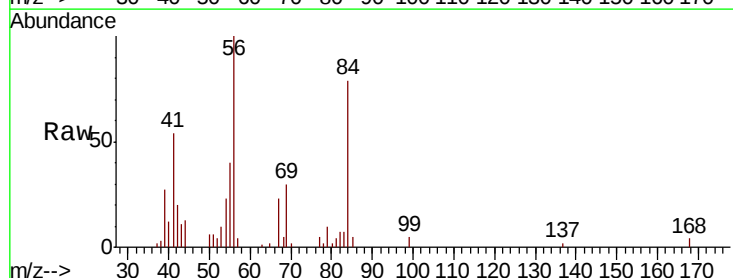
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

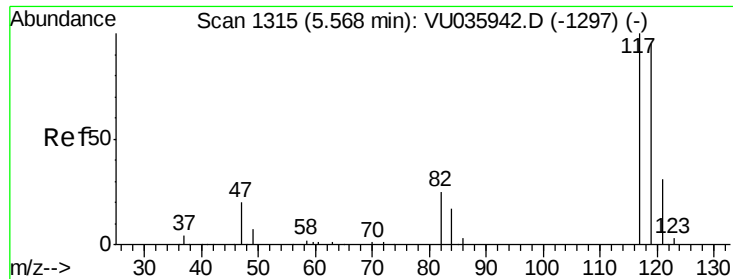
Tot Ion: 97 Resp: 17887
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.8 77.8
 61 43.8 37.6 56.4



#30
 Cyclohexane
 Concen: 0.345 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VU035940.D
 Acq: 03 Dec 2019 10:36

Tgt Ion: 56 Resp: 14681
 Ion Ratio Lower Upper
 56 100
 69 30.2 24.0 36.0
 84 79.4 66.9 100.3





#31

Carbon tetrachloride

Concen: 0.421 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

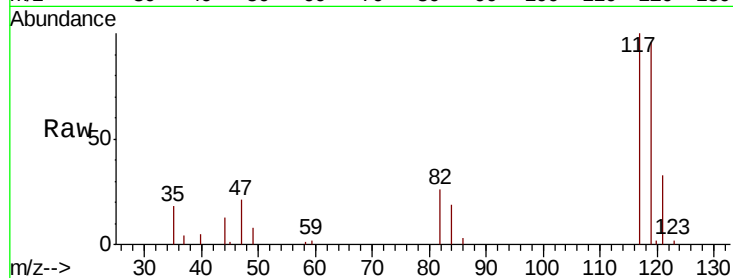
VSTD0.504

Tot Ion:117 Resp: 16011

Ion Ratio Lower Upper

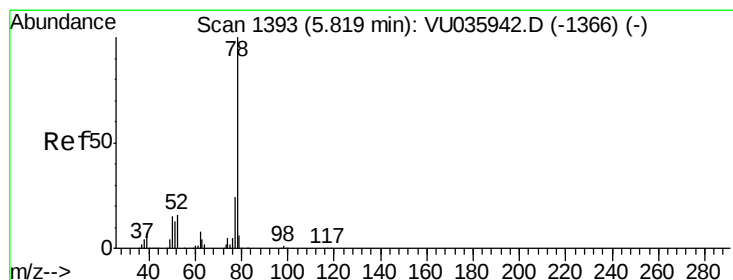
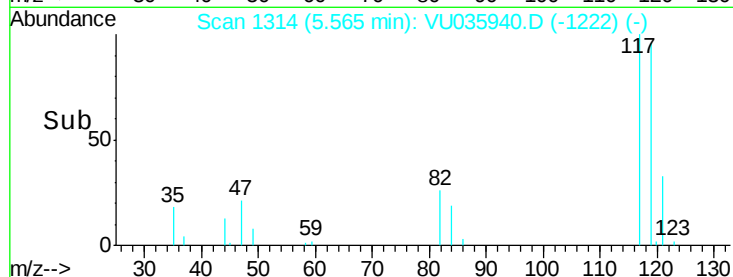
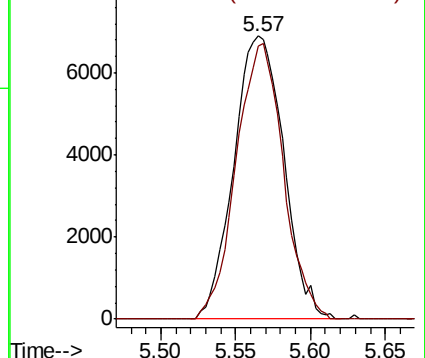
117 100

119 92.0 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.381 ug/L

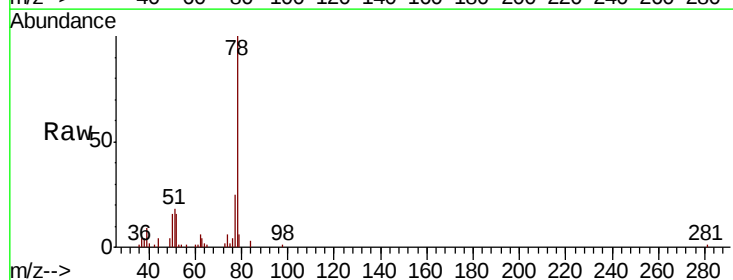
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

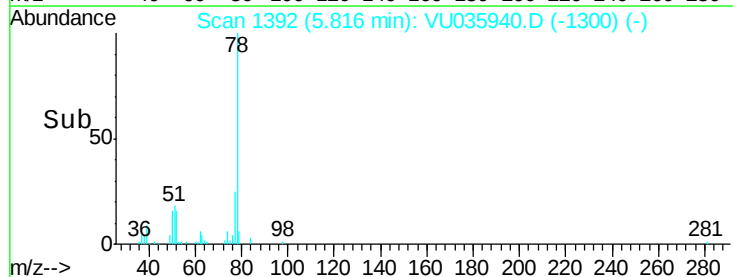
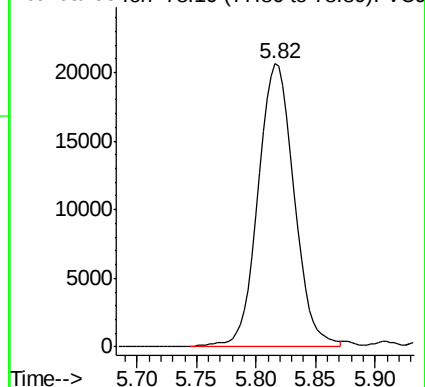
Lab File: VU035940.D

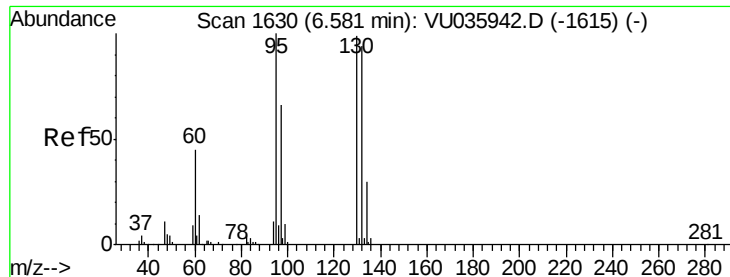
Acq: 03 Dec 2019 10:36

Tgt Ion: 78 Resp: 43443



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.416 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

Tot Ion: 95 Resp: 12007

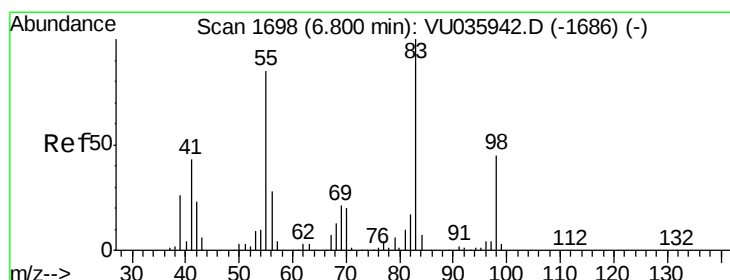
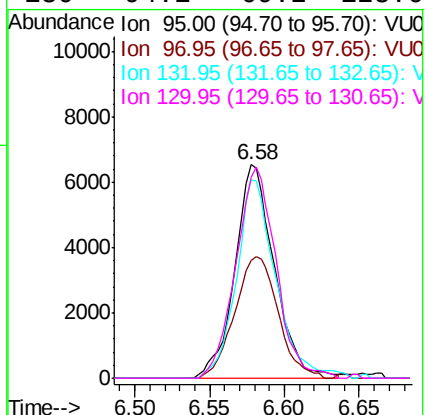
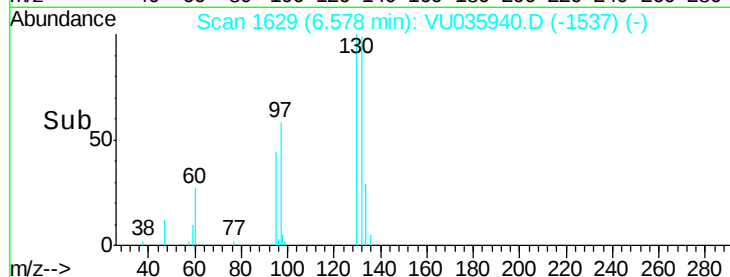
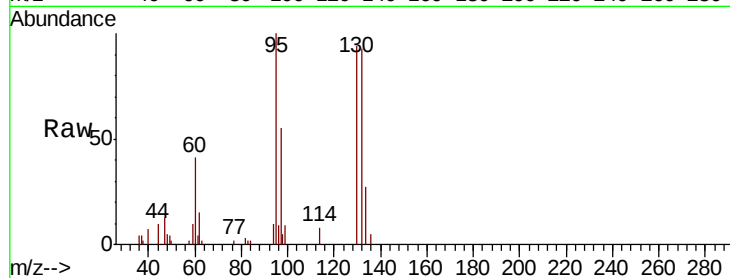
Ion Ratio Lower Upper

95 100

97 55.0 46.3 85.9

132 93.0 65.7 122.1

130 94.1 69.2 128.6



#35

Methylcyclohexane

Concen: 0.328 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

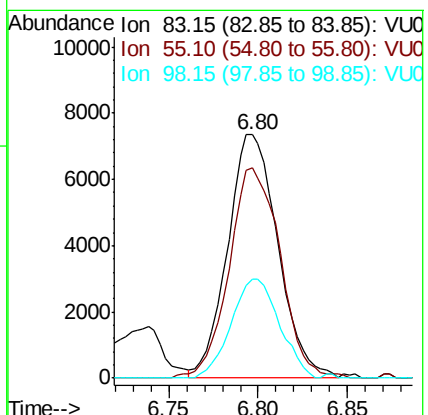
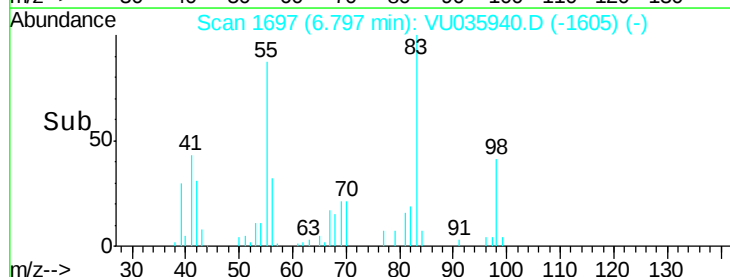
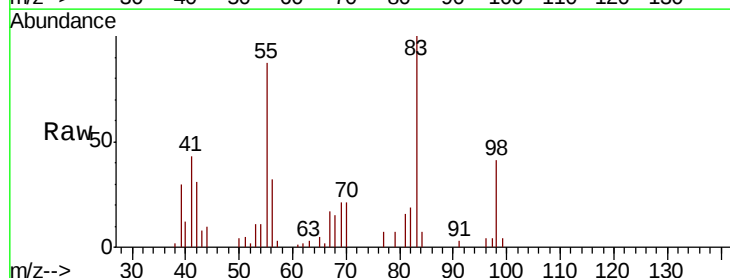
Tgt Ion: 83 Resp: 14450

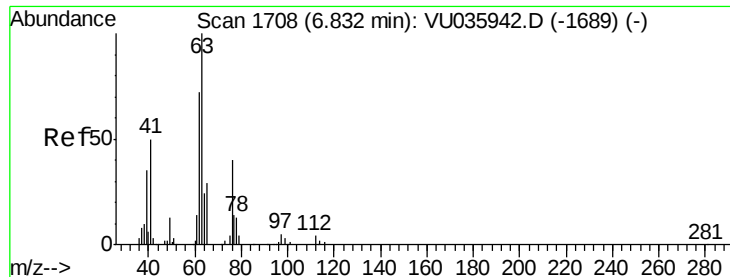
Ion Ratio Lower Upper

83 100

55 87.8 67.4 101.0

98 39.0 34.6 52.0





#37

1,2-Dichloropropane

Concen: 0.397 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

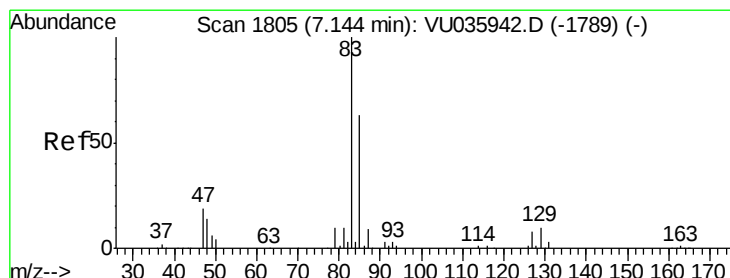
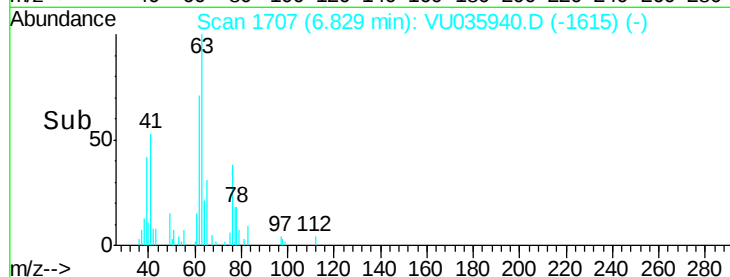
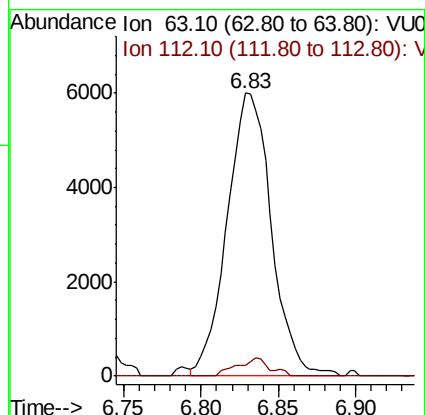
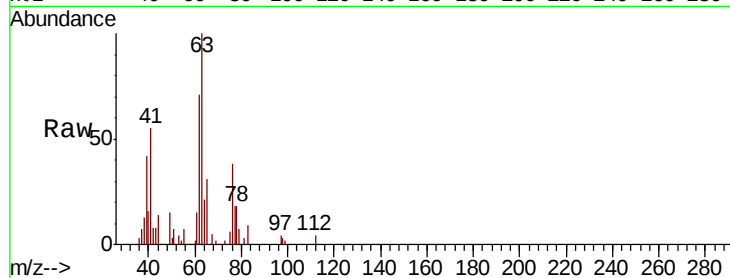
VSTD0.504

Tot Ion: 63 Resp: 11917

Ion Ratio Lower Upper

63 100

112 4.8 3.3 4.9



#38

Bromodichloromethane

Concen: 0.402 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

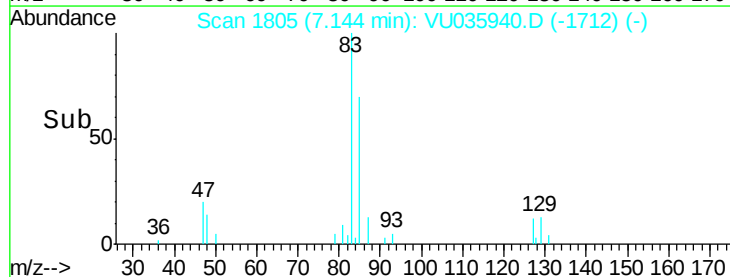
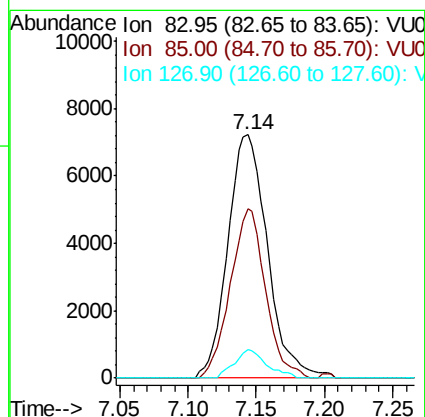
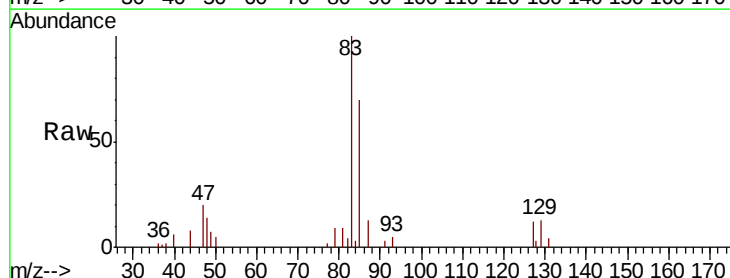
Tgt Ion: 83 Resp: 14620

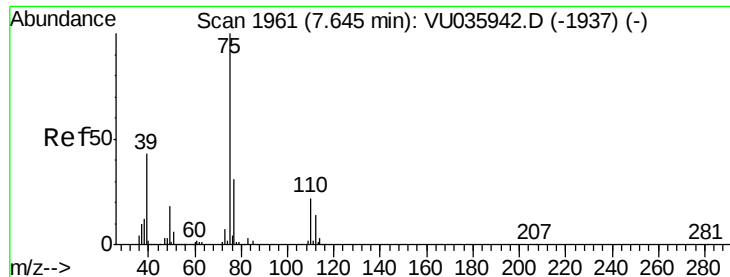
Ion Ratio Lower Upper

83 100

85 69.8 44.0 81.8

127 11.5 6.5 9.7#





#39

cis-1,3-Dichloropropene

Concen: 0.334 ug/L

RT: 7.64 min Scan# 1960

Delta R.T. -0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

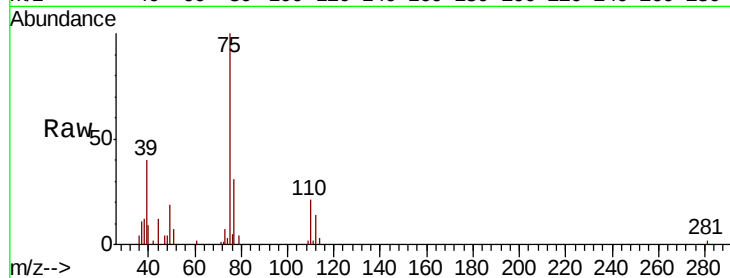
VSTD0.504

Tot Ion: 75 Resp: 14181

Ion Ratio Lower Upper

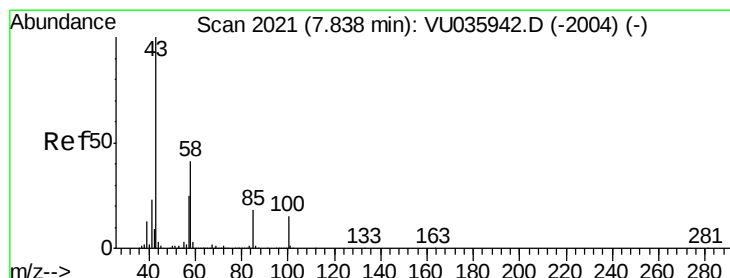
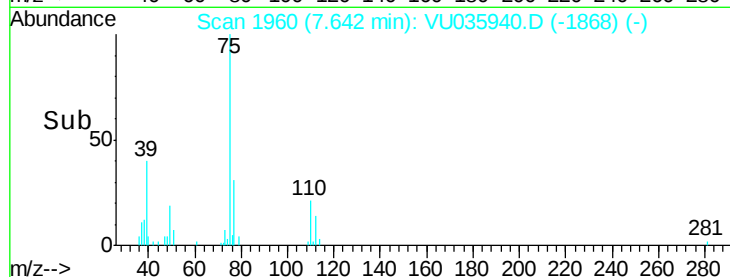
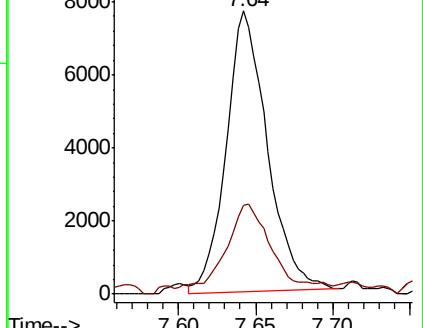
75 100

77 31.4 21.9 40.7



Abundance Ion 75.05 (74.75 to 75.75): VU035940.D (-1868) (-)

Ion 77.05 (76.75 to 77.75): VU035940.D (-1868) (-)



#40

4-Methyl-2-pentanone

Concen: 3.971 ug/L

RT: 7.84 min Scan# 2022

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

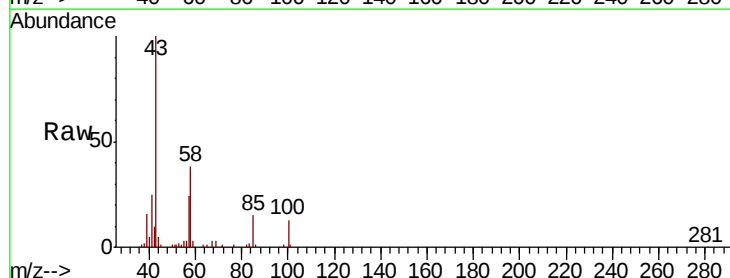
Tgt Ion: 43 Resp: 68911

Ion Ratio Lower Upper

43 100

58 35.9 32.3 48.5

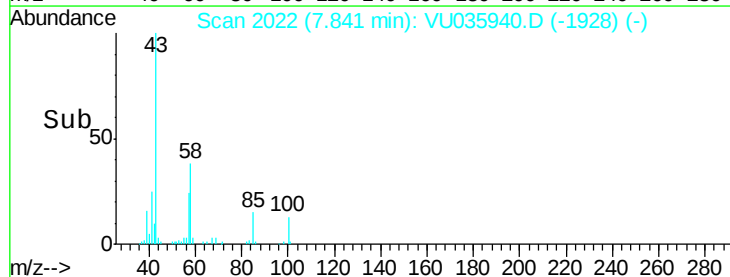
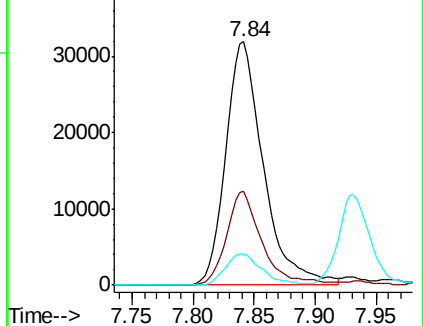
100 12.8 11.7 17.5

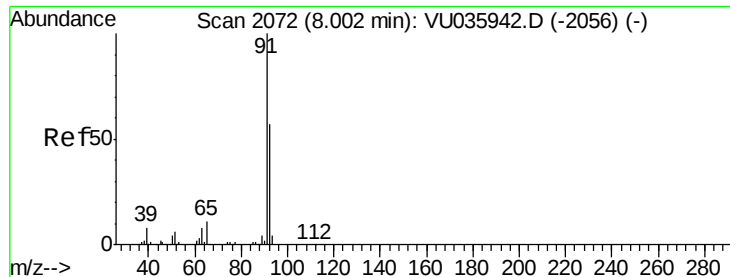


Abundance Ion 43.05 (42.75 to 43.75): VU035940.D (-1928) (-)

Ion 58.05 (57.75 to 58.75): VU035940.D (-1928) (-)

Ion 100.15 (99.85 to 100.85): VU035940.D (-1928) (-)





#42

Toluene

Concen: 0.335 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

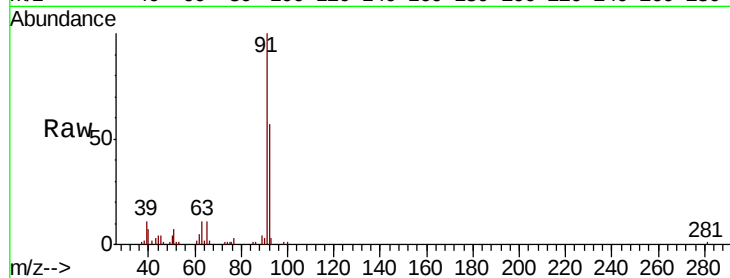
VSTD0.504

Tot Ion: 91 Resp: 39924

Ion Ratio Lower Upper

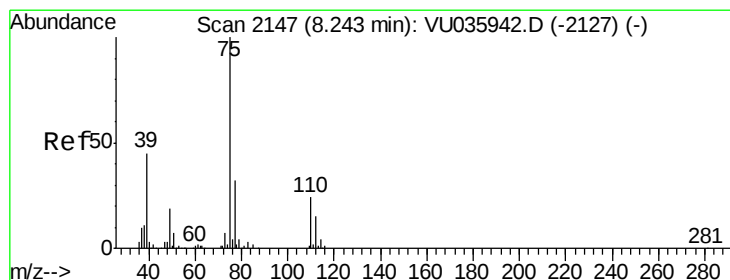
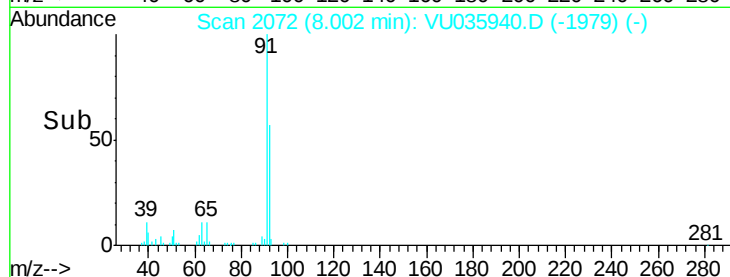
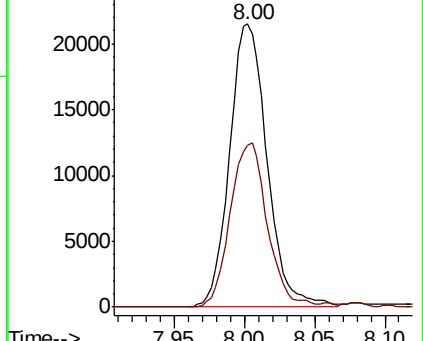
91 100

92 57.3 39.8 74.0



Abundance Ion 91.15 (90.85 to 91.85): VU035940.D (-1979) (-)

Ion 92.15 (91.85 to 92.85): VU035940.D (-1979) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.350 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035940.D

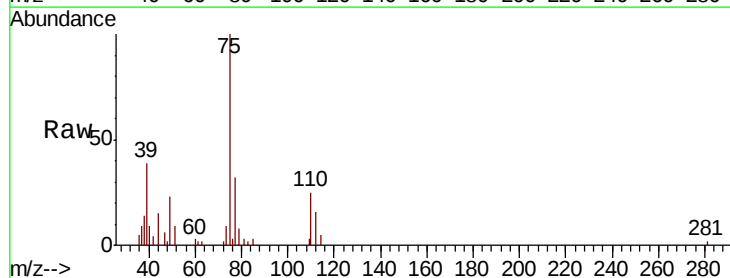
Acq: 03 Dec 2019 10:36

Tgt Ion: 75 Resp: 11926

Ion Ratio Lower Upper

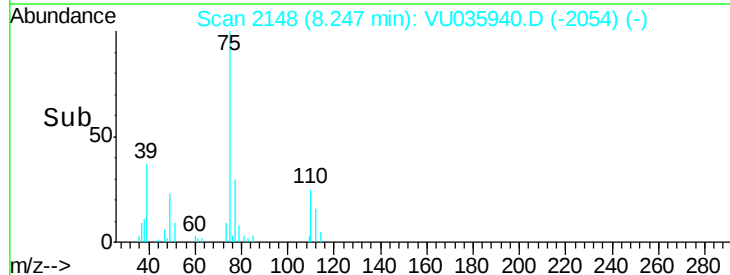
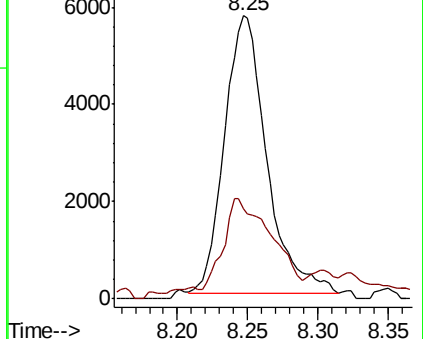
75 100

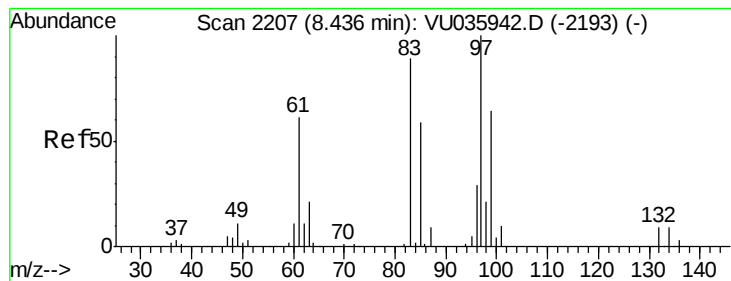
77 32.0 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU035940.D (-2054) (-)

Ion 77.05 (76.75 to 77.75): VU035940.D (-2054) (-)





#45

1,1,2-Trichloroethane

Concen: 0.383 ug/L

RT: 8.43 min Scan# 2205

Delta R.T. -0.01 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

Tot Ion: 97 Resp: 8183

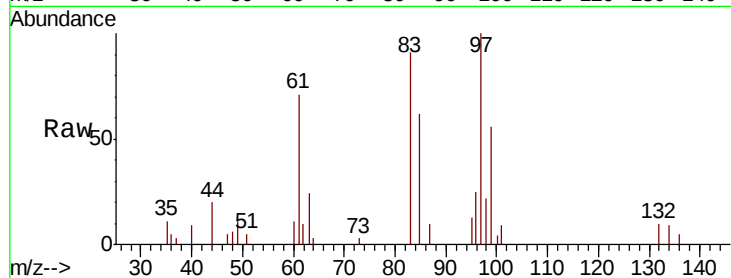
Ion Ratio Lower Upper

97 100

99 56.0 45.0 83.6

83 91.2 62.1 115.3

85 62.3 41.4 77.0

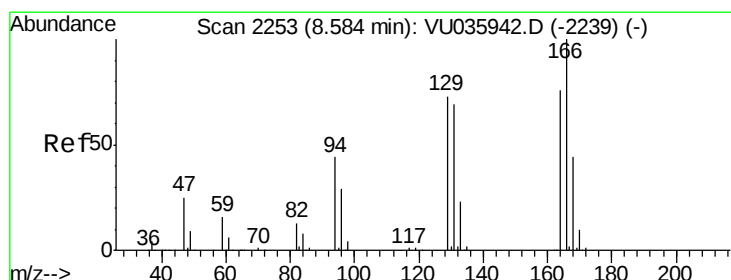
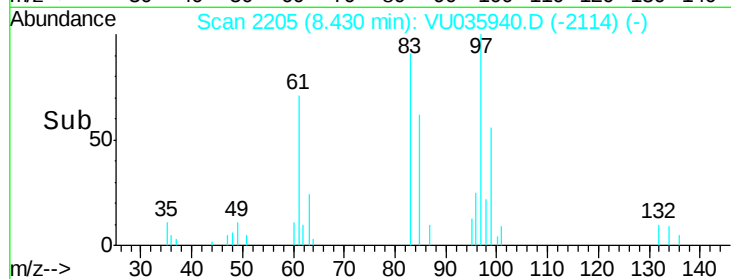
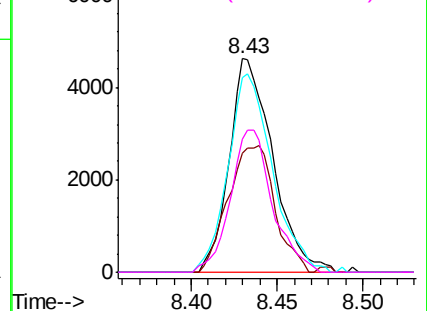


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.359 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Tgt Ion: 164 Resp: 8932

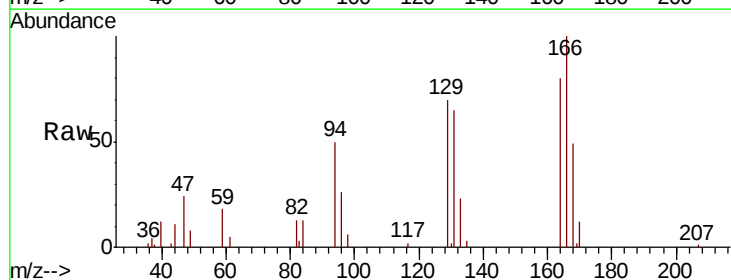
Ion Ratio Lower Upper

164 100

129 87.2 67.9 126.1

131 80.8 64.1 119.1

166 124.8 92.6 172.0

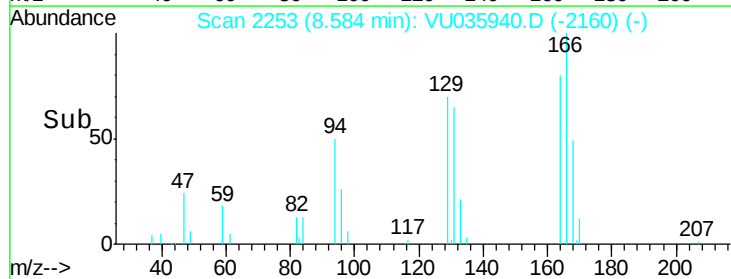
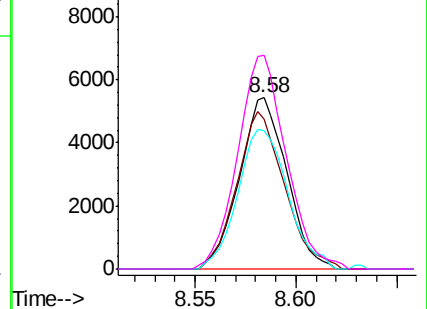


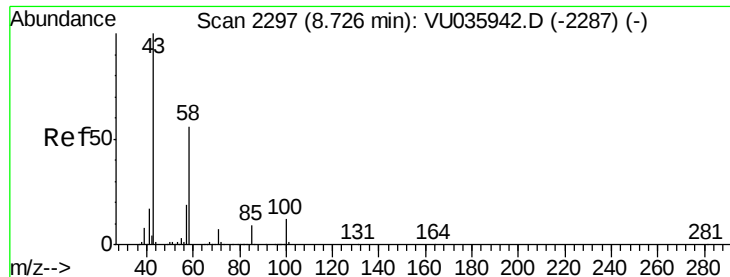
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

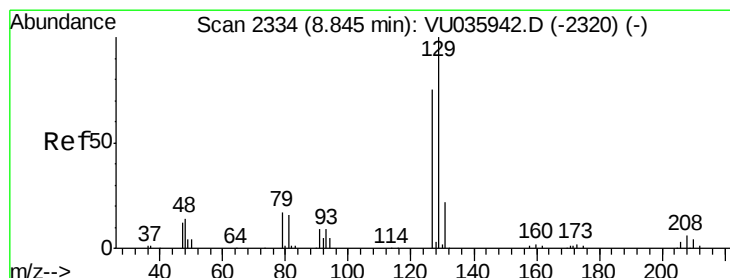
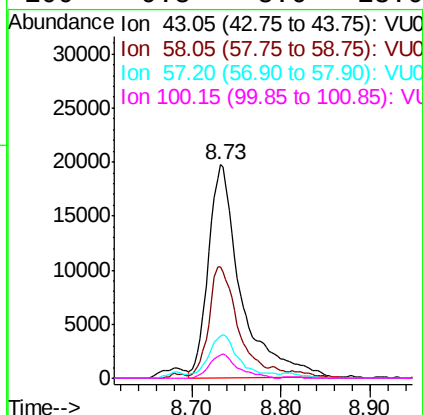
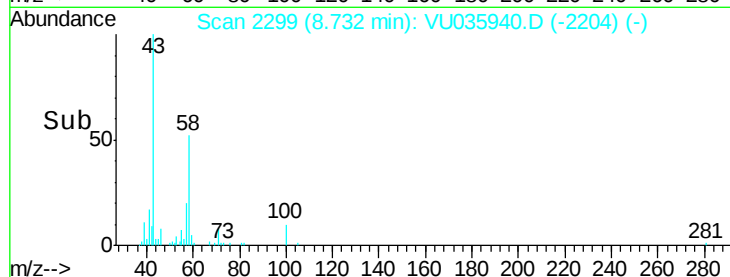
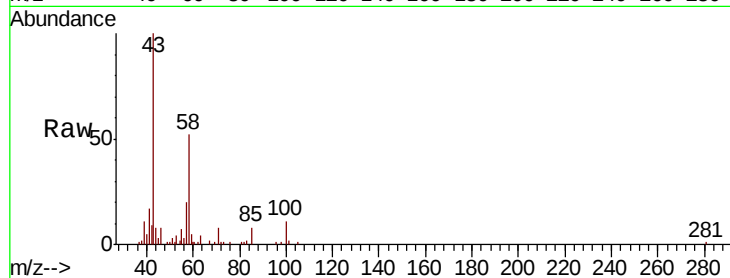




#48
2-Hexanone
Concen: 3.999 ug/L
RT: 8.73 min Scan# 2299
Delta R.T. 0.01 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

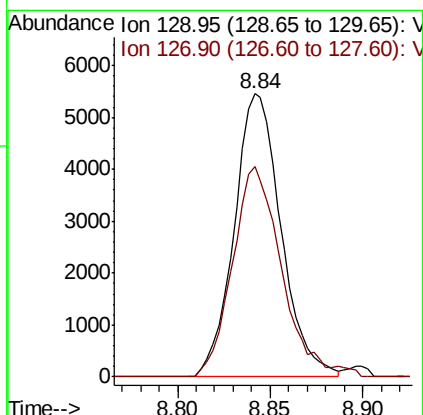
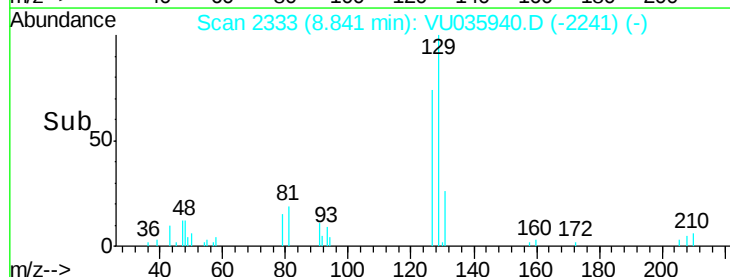
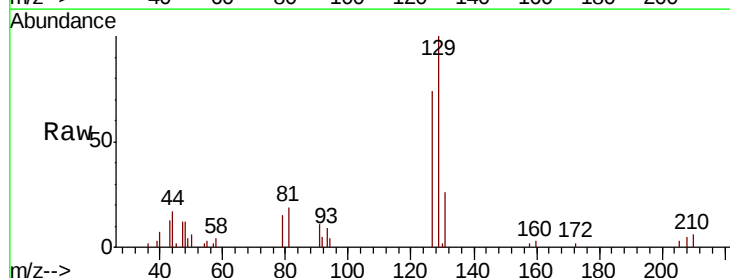
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

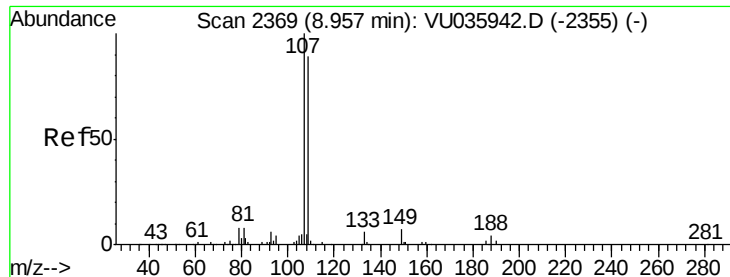
Tot Ion: 43 Resp: 49815
Ion Ratio Lower Upper
43 100
58 43.7 45.4 68.2#
57 16.2 14.9 22.3
100 9.8 8.6 13.0



#49
Dibromochloromethane
Concen: 0.367 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

Tgt Ion: 129 Resp: 9588
Ion Ratio Lower Upper
129 100
127 74.2 52.8 98.0

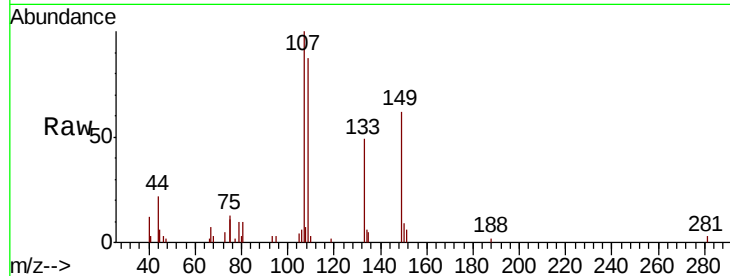




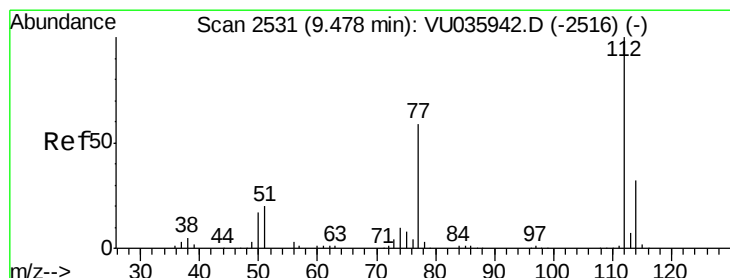
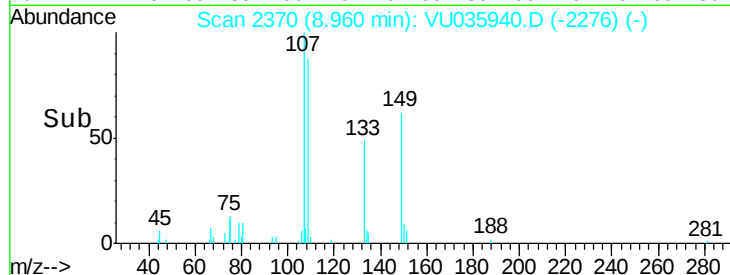
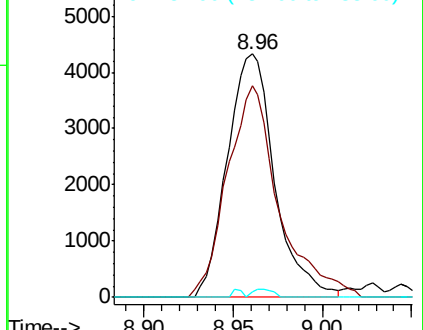
#50
1,2-Dibromoethane
Concen: 0.394 ug/L
RT: 8.96 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

Tot Ion:107 Resp: 8013
Ion Ratio Lower Upper
107 100
109 86.7 62.5 116.1
188 2.5 3.0 4.6#

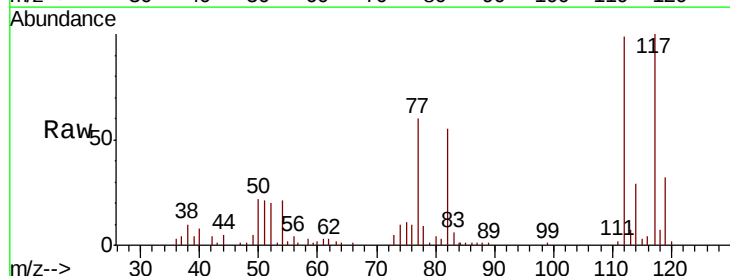


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

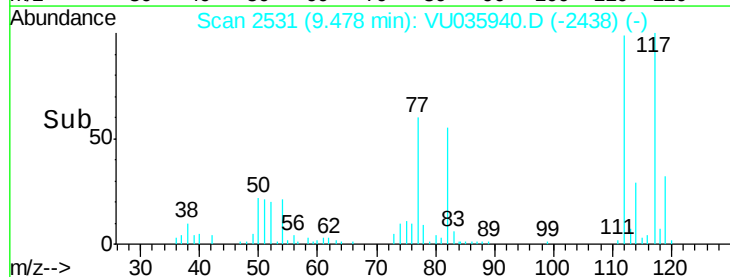
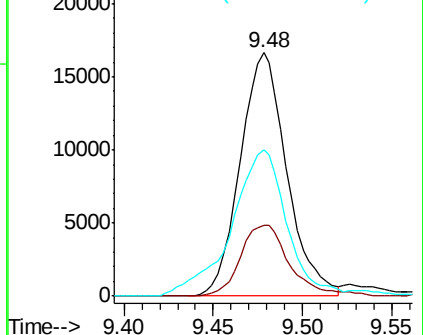


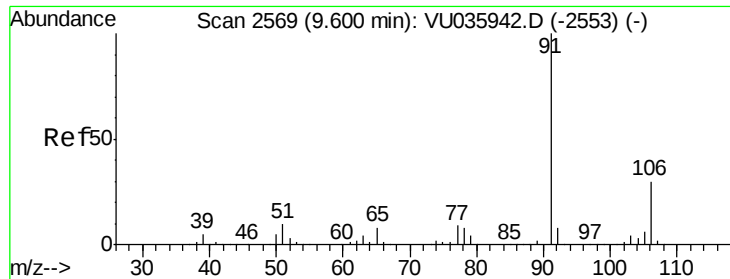
#51
Chlorobenzene
Concen: 0.393 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

Tgt Ion:112 Resp: 30376
Ion Ratio Lower Upper
112 100
114 29.0 22.5 41.7
77 60.2 47.7 71.5



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.329 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

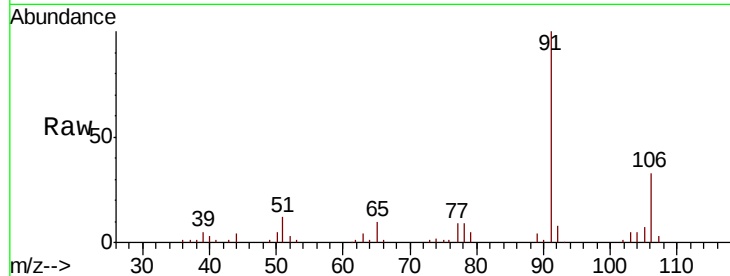
VSTD0.504

Tot Ion: 91 Resp: 40876

Ion Ratio Lower Upper

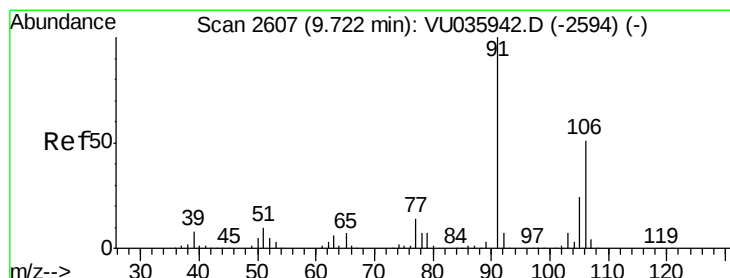
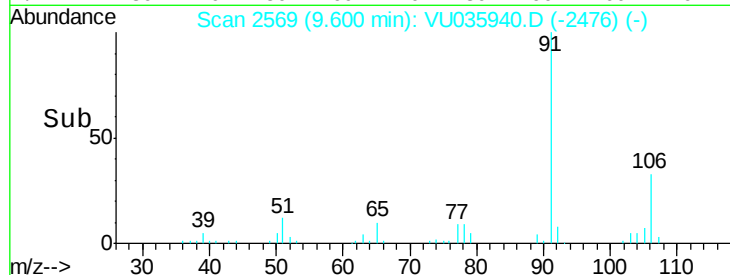
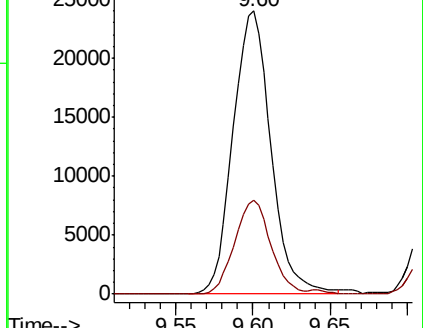
91 100

106 33.2 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU035942.D (-2553) (-)

Ion 106.15 (105.85 to 106.85): VU035942.D (-2553) (-)



#53

m,p-Xylene

Concen: 0.298 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035940.D

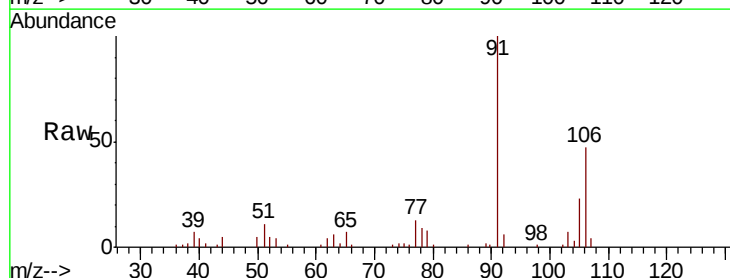
Acq: 03 Dec 2019 10:36

Tgt Ion: 106 Resp: 14068

Ion Ratio Lower Upper

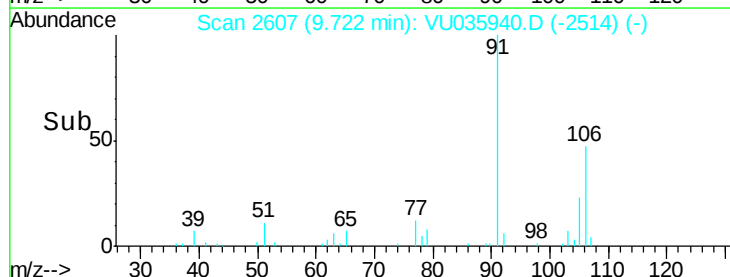
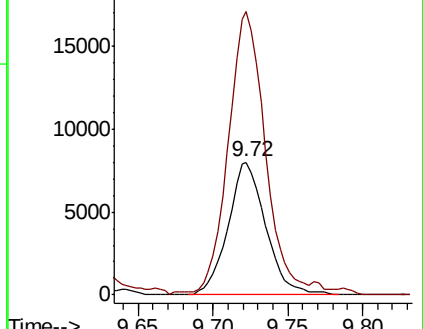
106 100

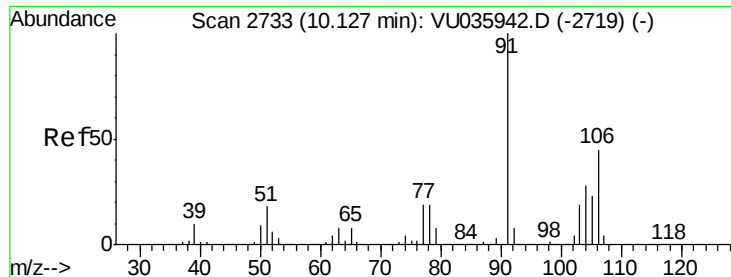
91 213.4 138.9 257.9



Abundance Ion 106.15 (105.85 to 106.85): VU035942.D (-2594) (-)

Ion 91.15 (90.85 to 91.85): VU035942.D (-2594) (-)

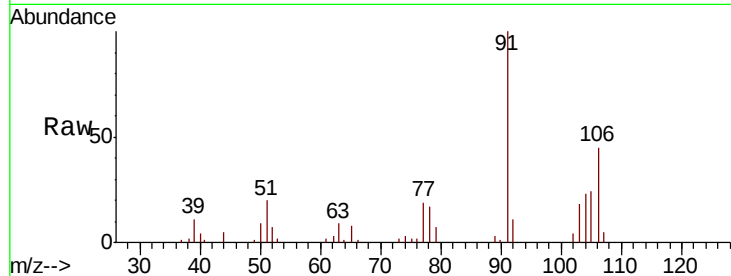




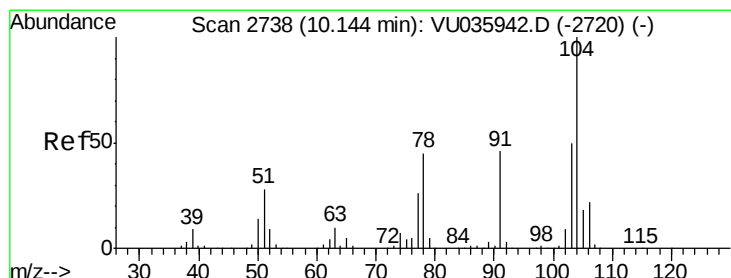
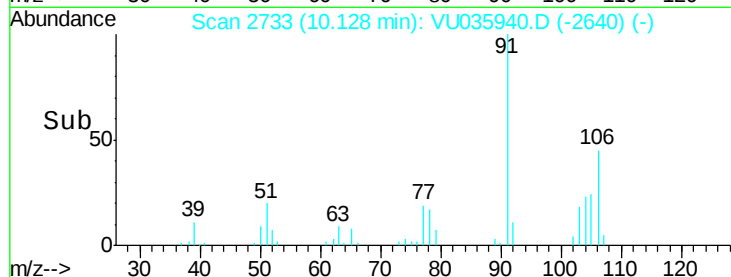
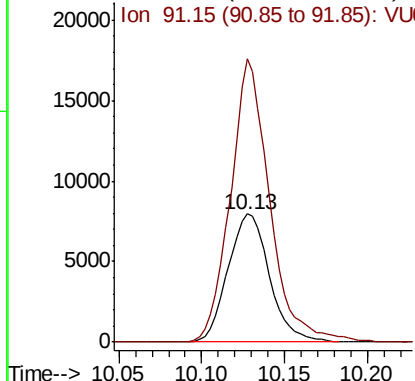
#54
o-Xylene
Concen: 0.306 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.504

Tot Ion:106 Resp: 13851
Ion Ratio Lower Upper
106 100
91 221.4 155.3 288.3

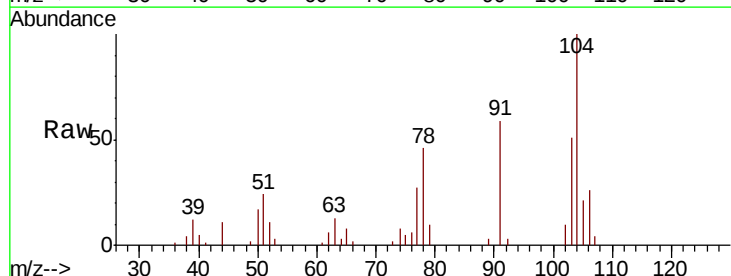


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

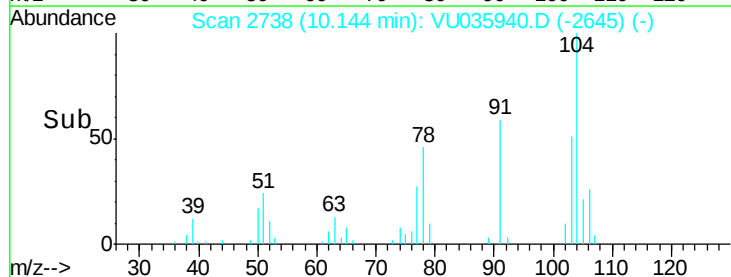
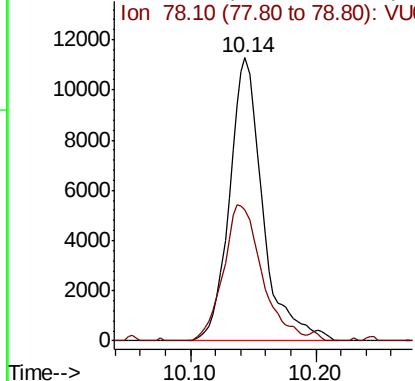


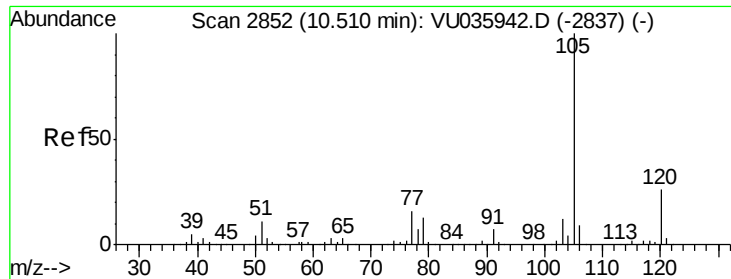
#55
Styrene
Concen: 0.277 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. 0.00 min
Lab File: VU035940.D
Acq: 03 Dec 2019 10:36

Tgt Ion:104 Resp: 20813
Ion Ratio Lower Upper
104 100
78 46.4 31.2 58.0



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





#56

Isopropylbenzene

Concen: 0.303 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

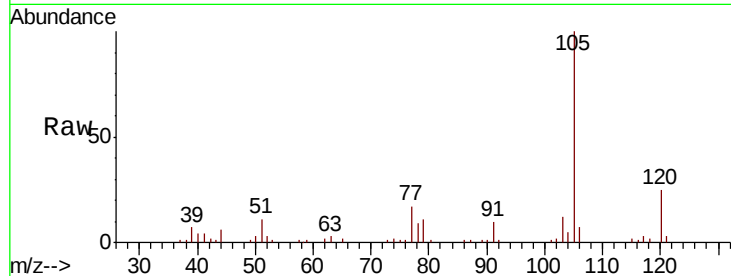
Tot Ion:105 Resp: 36067

Ion Ratio Lower Upper

105 100

120 25.6 21.3 31.9

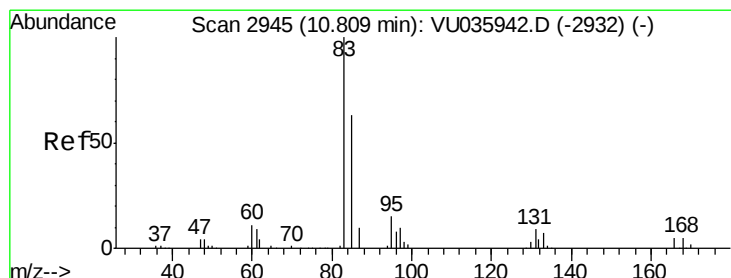
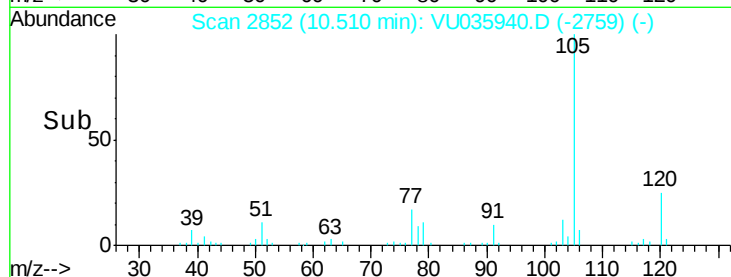
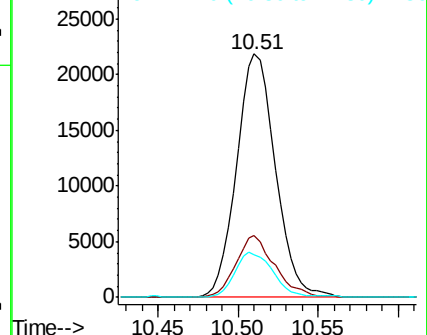
77 18.5 13.1 19.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.431 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

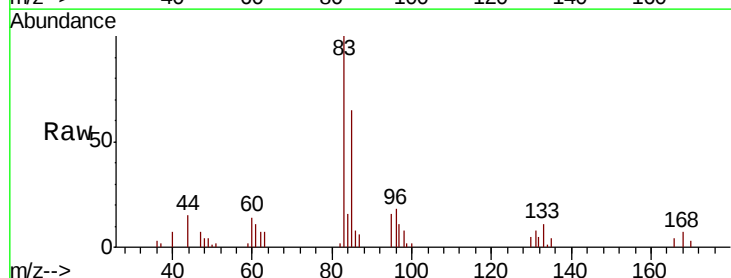
Tgt Ion: 83 Resp: 12082

Ion Ratio Lower Upper

83 100

85 64.9 44.3 82.3

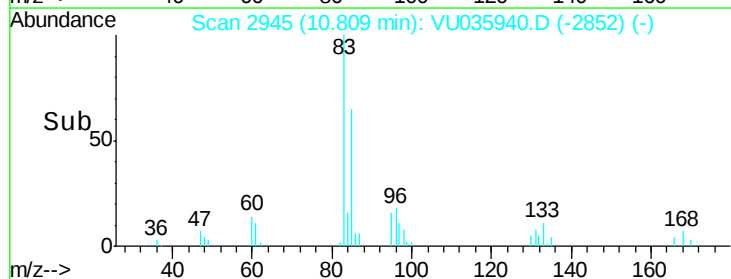
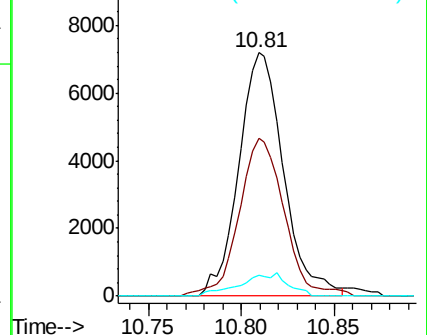
131 8.3 7.2 10.8

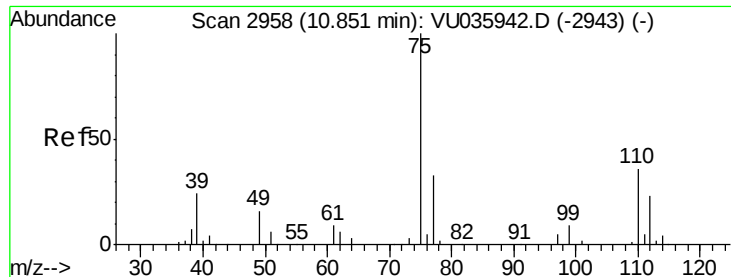


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.444 ug/L

RT: 10.85 min Scan# 2959

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

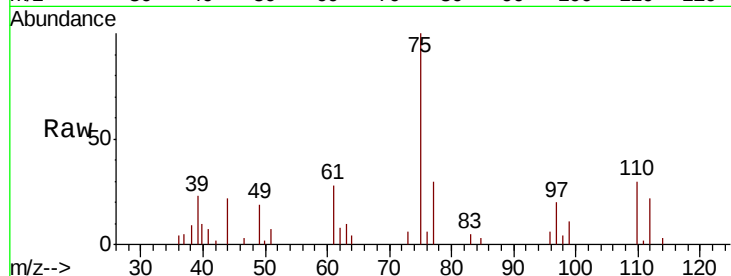
VSTD0.504

Tot Ion: 75 Resp: 8772

Ion Ratio Lower Upper

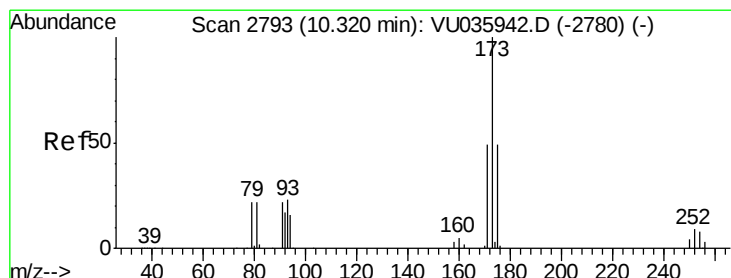
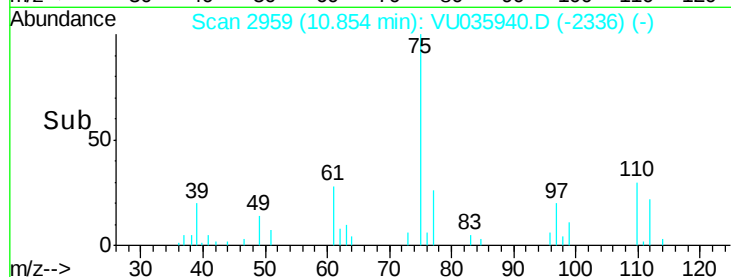
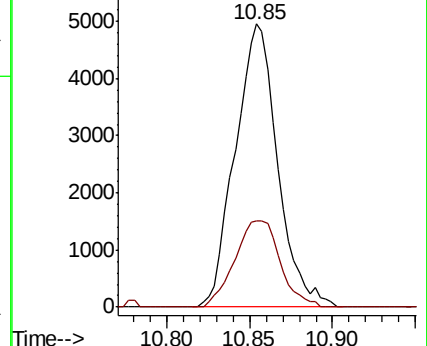
75 100

77 32.7 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU035940.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU035940.D (-2943) (-)



#61

Bromoform

Concen: 0.583 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

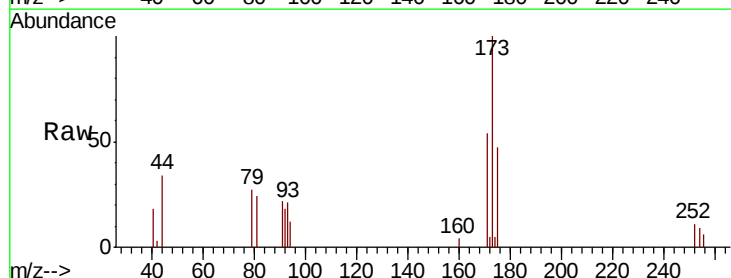
Tgt Ion: 173 Resp: 6160

Ion Ratio Lower Upper

173 100

175 46.5 39.3 58.9

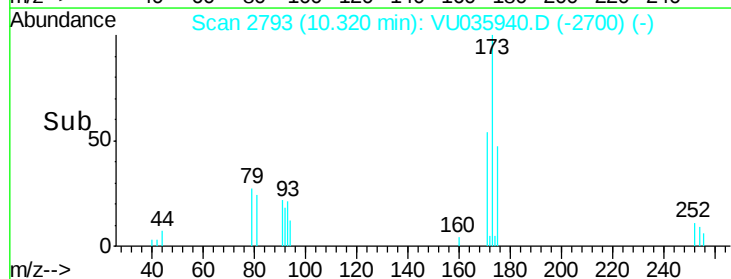
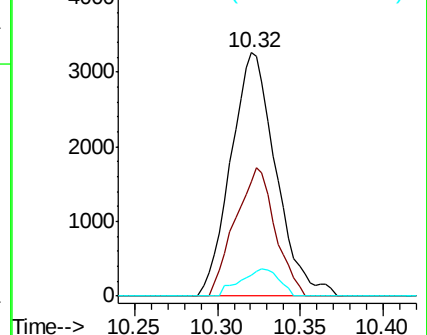
254 9.5 7.3 10.9

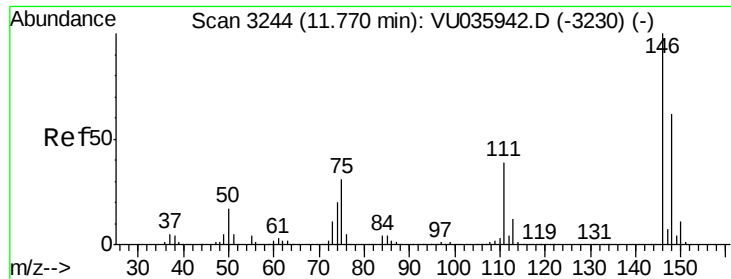


Abundance Ion 172.90 (172.60 to 173.60): VU035940.D (-2780) (-)

Ion 174.90 (174.60 to 175.60): VU035940.D (-2780) (-)

Ion 253.75 (253.45 to 254.45): VU035940.D (-2780) (-)





#62

1,3-Dichlorobenzene

Concen: 0.495 ug/L

RT: 11.77 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

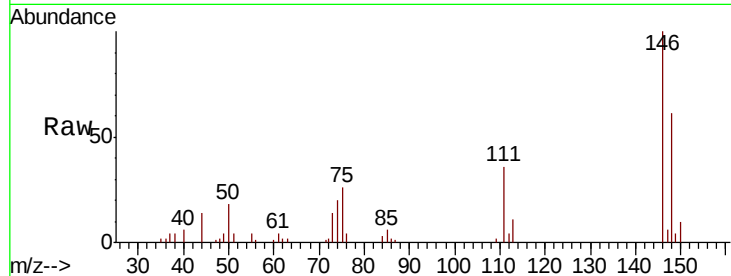
Tot Ion:146 Resp: 19417

Ion Ratio Lower Upper

146 100

111 36.5 27.6 51.4

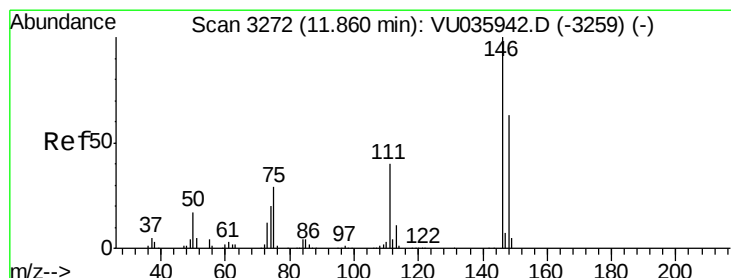
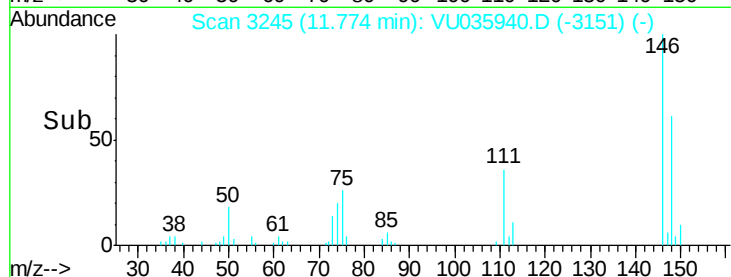
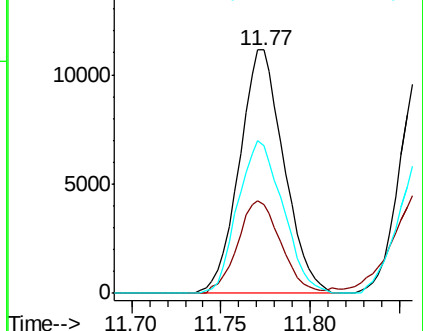
148 60.6 43.4 80.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.510 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

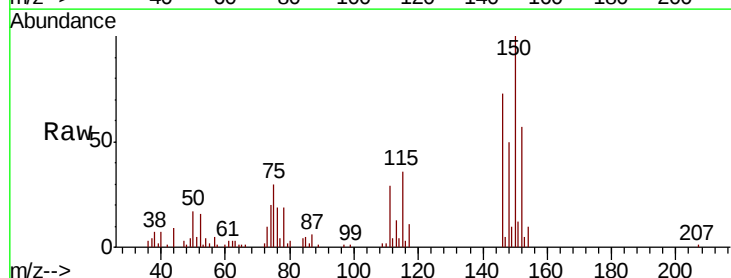
Tgt Ion:146 Resp: 19259

Ion Ratio Lower Upper

146 100

111 39.8 28.5 52.9

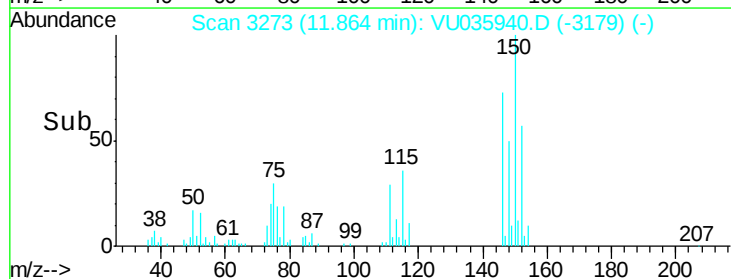
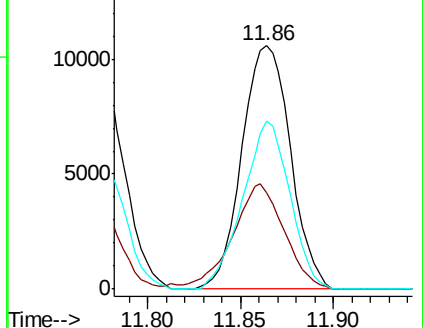
148 69.2 44.4 82.5

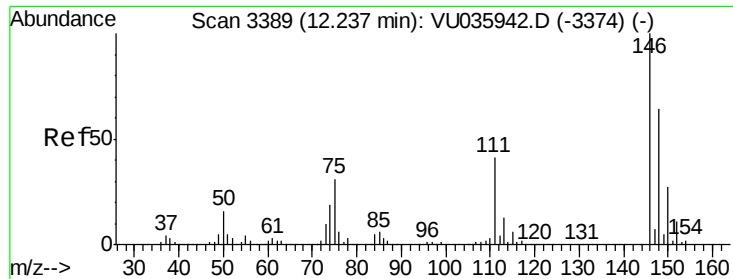


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.531 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

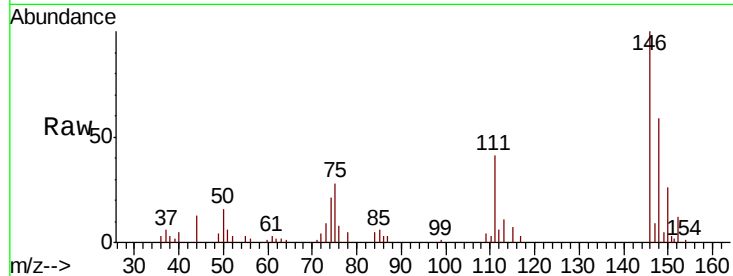
Tot Ion:146 Resp: 19585

Ion Ratio Lower Upper

146 100

111 40.7 32.6 48.8

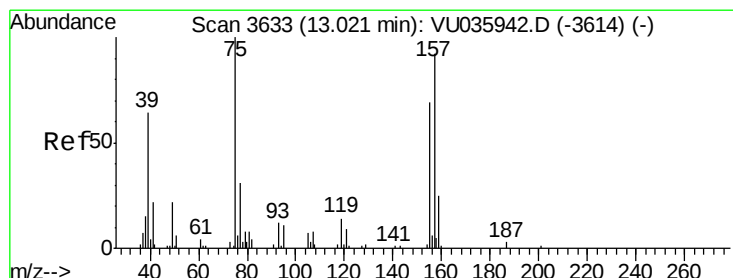
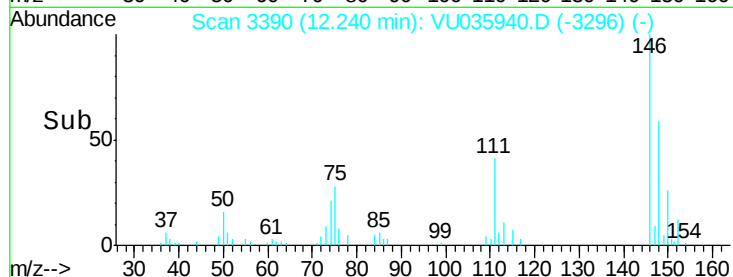
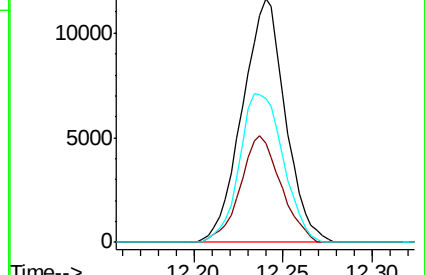
148 59.2 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.641 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

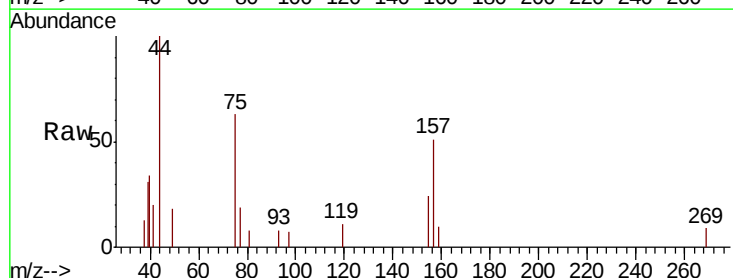
Tgt Ion: 75 Resp: 1550

Ion Ratio Lower Upper

75 100

155 38.7 55.1 82.7#

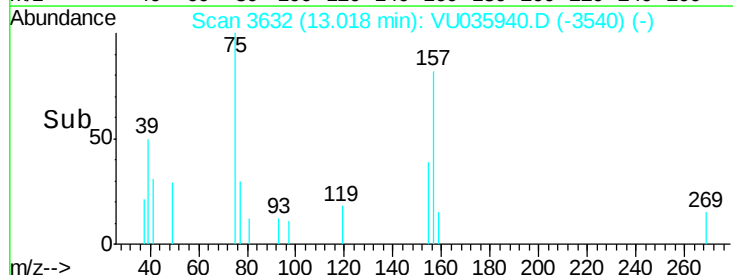
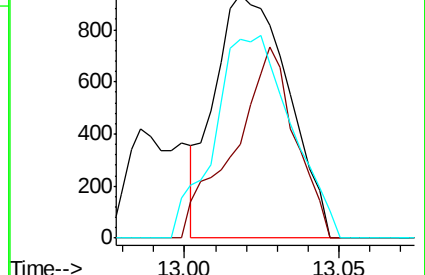
157 81.6 74.0 111.0

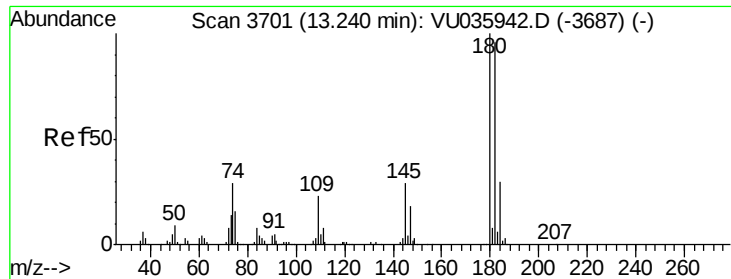


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

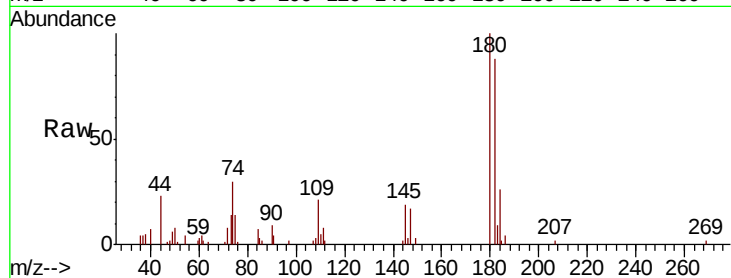




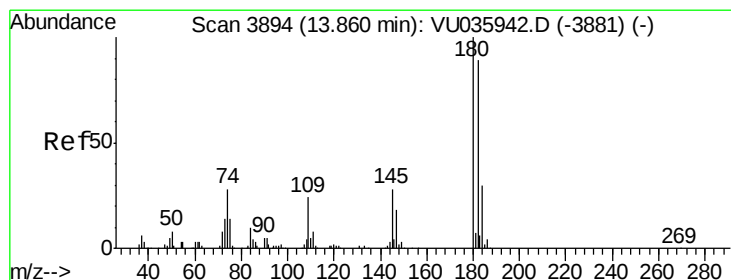
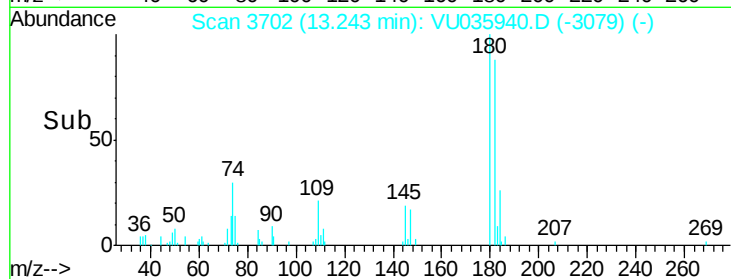
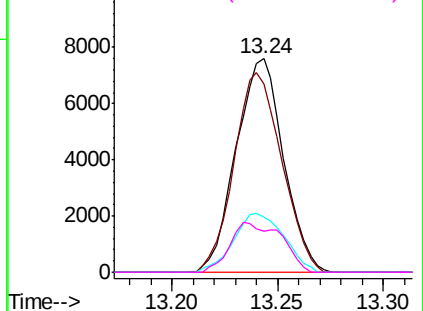
#67
 1,3,5-Trichlorobenzene
 Concen: 0.471 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU035940.D
 Acq: 03 Dec 2019 10:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.504

Tot Ion:180	Resp:	11899
Ion Ratio	Lower	Upper
180 100		
182 93.8	77.2	115.8
184 29.2	24.5	36.7
145 25.3	23.0	34.6

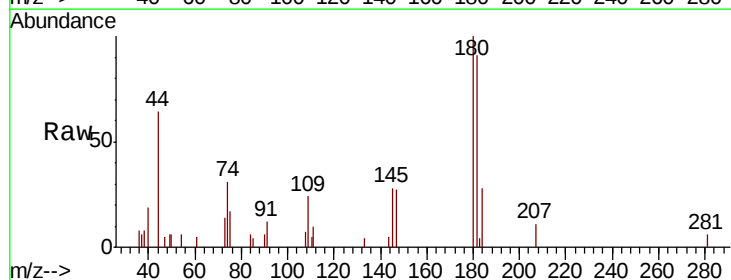


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

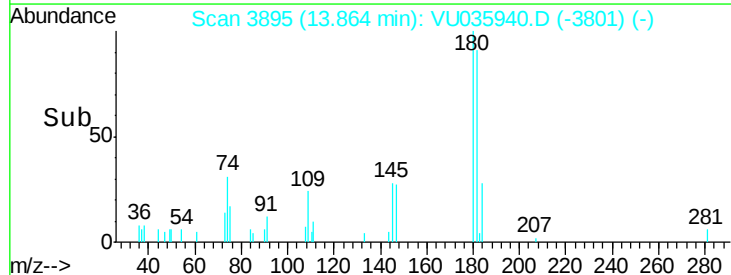
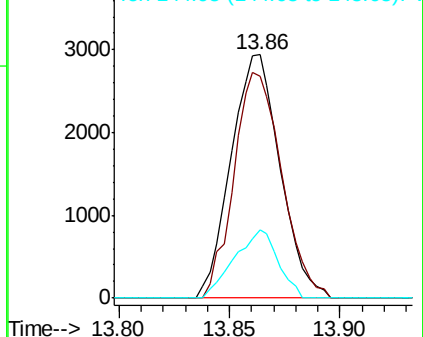


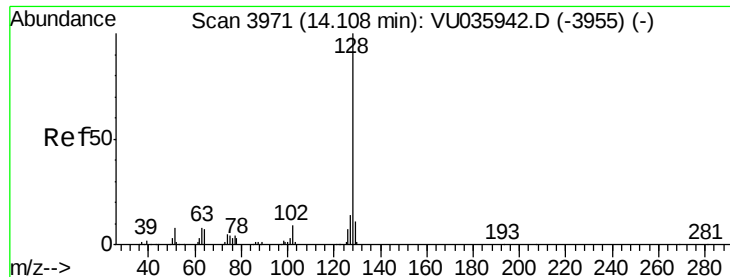
#68
 1,2,4-trichlorobenzene
 Concen: 0.299 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU035940.D
 Acq: 03 Dec 2019 10:36

Tgt Ion:180	Resp:	4540
Ion Ratio	Lower	Upper
180 100		
182 90.4	74.5	111.7
145 24.9	23.4	35.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.273 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.504

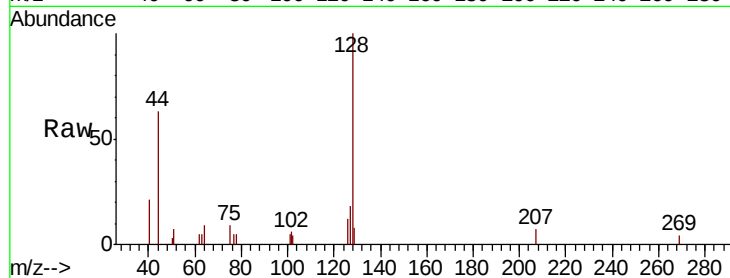
Tot Ion:128 Resp: 4970

Ion Ratio Lower Upper

128 100

129 4.0 8.4 12.6#

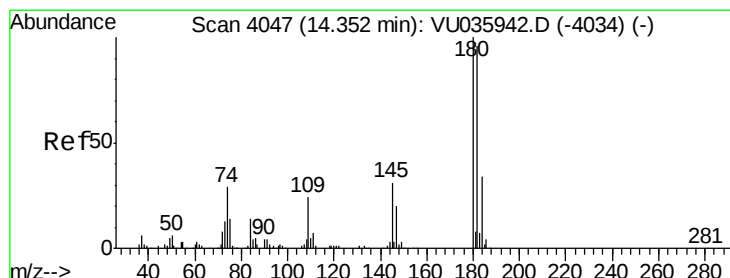
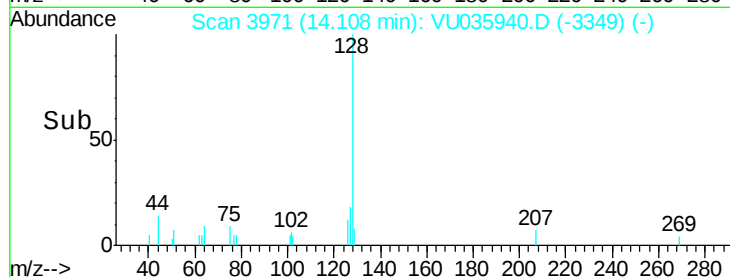
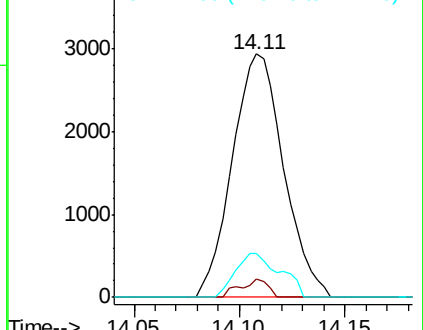
127 15.7 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.345 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VU035940.D

Acq: 03 Dec 2019 10:36

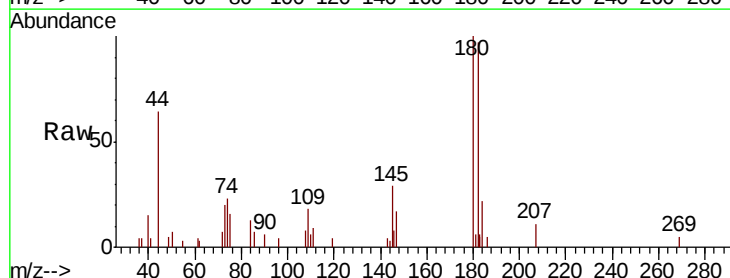
Tgt Ion:180 Resp: 5049

Ion Ratio Lower Upper

180 100

182 95.9 74.6 112.0

145 29.5 24.3 36.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

