

Data File : VU030605.D
Acq On : 31 Mar 2019 21:02
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

Quant Time: Apr 01 02:13:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Apr 01 02:05:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	455971	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	441828	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	207757	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	156034	42.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.04%
7) Chloroethane-d5	1.68	69	131156	45.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.18%
11) 1,1-Dichloroethene-d2	2.27	63	320154	45.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.98%
21) 2-Butanone-d5	4.18	46	318816	92.42	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.42%
24) Chloroform-d	4.65	84	298285	47.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.36%
26) 1,2-Dichloroethane-d4	5.31	65	197310	47.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.38%
32) Benzene-d6	5.34	84	587887	46.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.33	67	205965	47.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.02%
41) Toluene-d8	7.56	98	539025	47.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.74%
43) trans-1,3-Dichloropropene-	7.85	79	90066	44.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.36%
47) 2-Hexanone-d5	8.31	63	199606	84.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.97%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	290780	46.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.74%
64) 1,2-Dichlorobenzene-d4	11.86	152	192266	46.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.38%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	210557	41.853	ug/L	100
3) Chloromethane	1.33	50	251981	44.784	ug/L	99
5) Vinyl chloride	1.40	62	240603	45.094	ug/L	99
6) Bromomethane	1.62	94	111697	45.634	ug/L	98
8) Chloroethane	1.70	64	137843	45.762	ug/L	96
9) Trichlorofluoromethane	1.88	101	274000	47.092	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	145148	43.616	ug/L	97
12) 1,1-Dichloroethene	2.28	96	147391	45.179	ug/L	97
13) Acetone	2.32	43	236372	67.756	ug/L	98
14) Carbon disulfide	2.48	76	434293	40.262	ug/L	100
15) Methyl Acetate	2.62	43	247857	46.400	ug/L #	100
16) Methylene chloride	2.70	84	176662	45.936	ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	147936	43.223	ug/L	94
18) Methyl tert-butyl Ether	3.00	73	520174	45.958	ug/L	99
19) 1,1-Dichloroethane	3.44	63	330308	47.040	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	171700	44.732	ug/L	96
22) 2-Butanone	4.26	43	362903	86.064	ug/L	98

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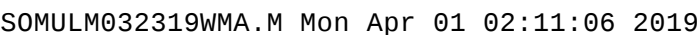
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

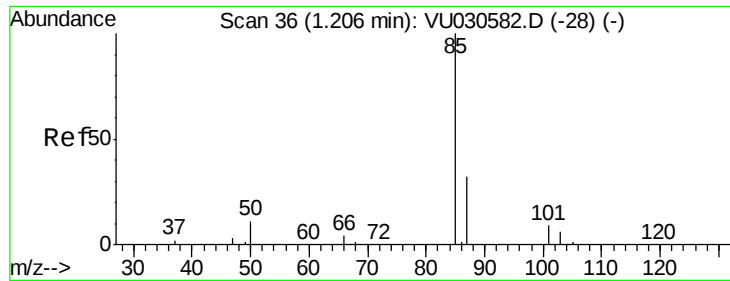
Quant Time: Apr 01 02:13:15 2019
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Quant Title : VOC Analysis
QLast Update : Mon Apr 01 02:05:14 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	81232	45.531	ug/L	96
25) Chloroform	4.67	83	315442	47.248	ug/L	97
27) 1,2-Dichloroethane	5.40	62	248024	47.343	ug/L	98
29) Cyclohexane	4.99	56	292501	43.747	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	251162	46.426	ug/L	99
31) Carbon tetrachloride	5.13	117	210108	45.820	ug/L	97
33) Benzene	5.39	78	696510	46.310	ug/L	100
34) Trichloroethene	6.18	95	164744	44.557	ug/L	99
35) Methylcyclohexane	6.41	83	254470	41.824	ug/L	98
37) 1,2-Dichloropropane	6.43	63	194930	45.670	ug/L	99
38) Bromodichloromethane	6.75	83	231763	45.698	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	273514	44.582	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	671854	93.711	ug/L	99
42) Toluene	7.63	91	721245	46.206	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	245711	45.518	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	163169	45.244	ug/L	99
46) Tetrachloroethene	8.22	164	117179	45.375	ug/L	96
48) 2-Hexanone	8.36	43	520899	88.649	ug/L	99
49) Dibromochloromethane	8.47	129	173909	46.409	ug/L	98
50) 1,2-Dibromoethane	8.58	107	174206	45.009	ug/L	100
51) Chlorobenzene	9.12	112	427938	45.236	ug/L	98
52) Ethylbenzene	9.25	91	775161	45.843	ug/L	99
53) m,p-Xylene	9.37	106	272464	44.627	ug/L	100
54) o-xylene	9.78	106	272269	45.703	ug/L	100
55) Styrene	9.79	104	470338	45.833	ug/L	99
56) Isopropylbenzene	10.16	105	720220	45.659	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	308074	46.350	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	240130	46.221	ug/L	99
61) Bromoform	9.95	173	125934	45.591	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	296507	43.641	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	302487	43.247	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	305177	44.422	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	66916	43.744	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	215181	42.306	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	177254	40.108	ug/L	98
69) Naphthalene	13.74	128	591834	37.661	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	190826	40.891	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 41.853 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

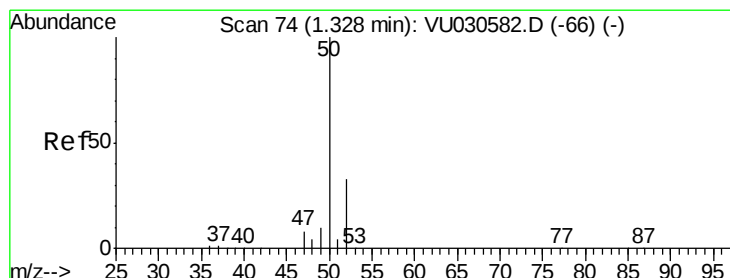
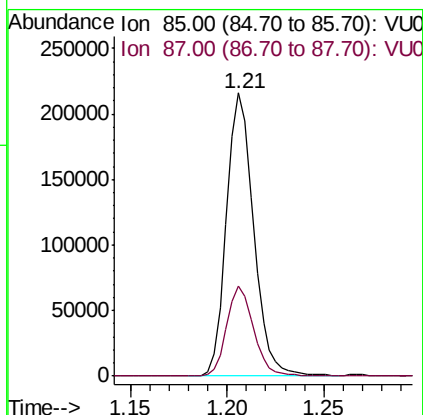
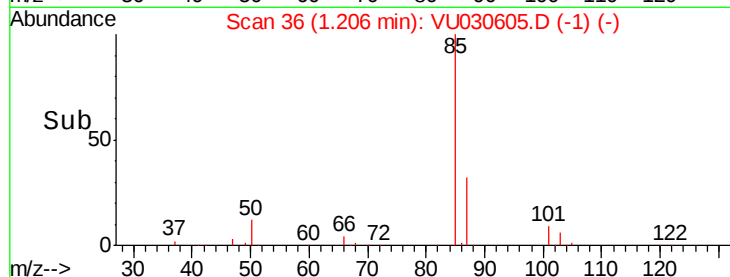
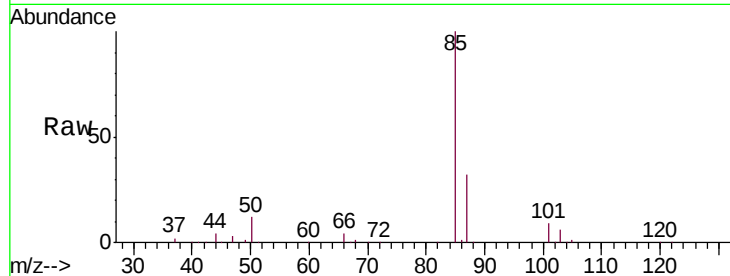
VSTD05043

Tgt Ion: 85 Resp: 210557

Ion Ratio Lower Upper

85 100

87 31.7 25.5 38.3



#3

Chloromethane

Concen: 44.784 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030605.D

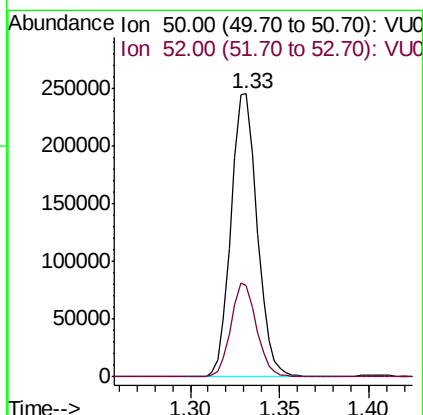
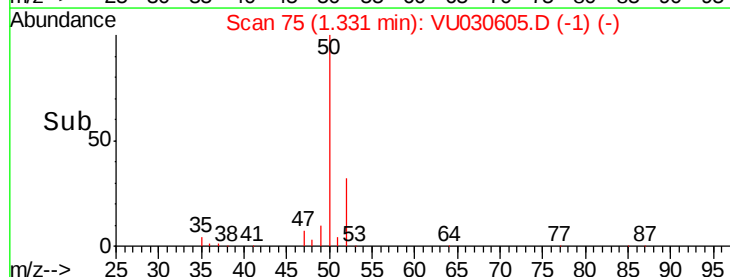
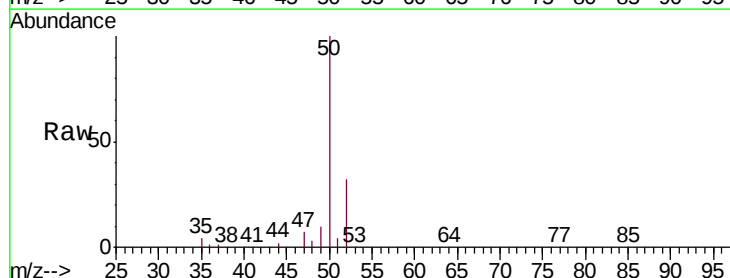
Acq: 31 Mar 2019 21:02

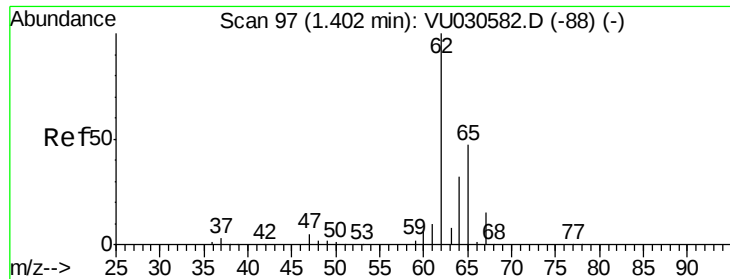
Tgt Ion: 50 Resp: 251981

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.6





#5

Vinyl chloride

Concen: 45.094 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

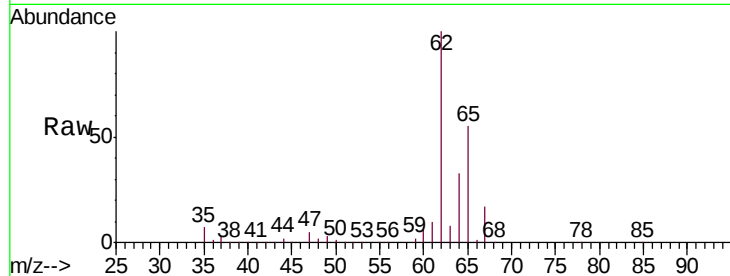
VSTD05043

Tgt Ion: 62 Resp: 240603

Ion Ratio Lower Upper

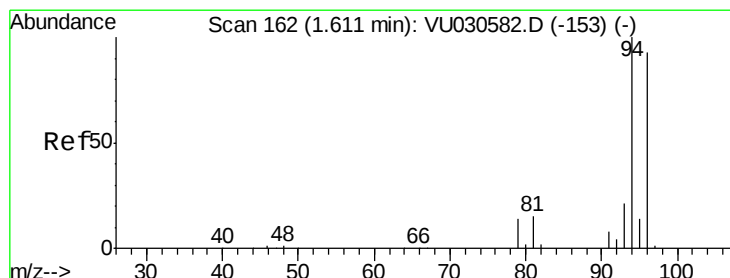
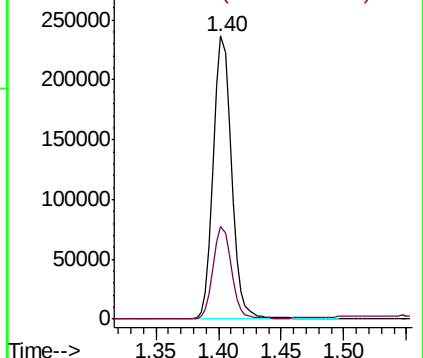
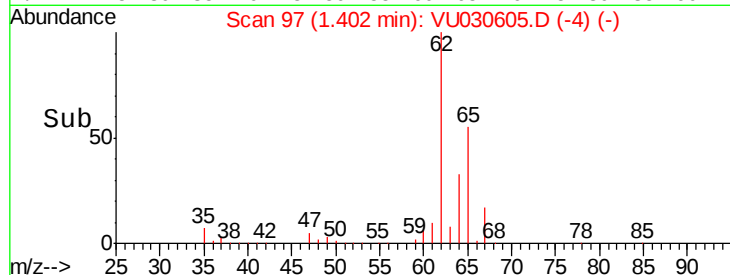
62 100

64 32.9 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU030605.D (-4) (-)

Ion 64.00 (63.70 to 64.70): VU030605.D (-4) (-)



#6

Bromomethane

Concen: 45.634 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.01 min

Lab File: VU030605.D

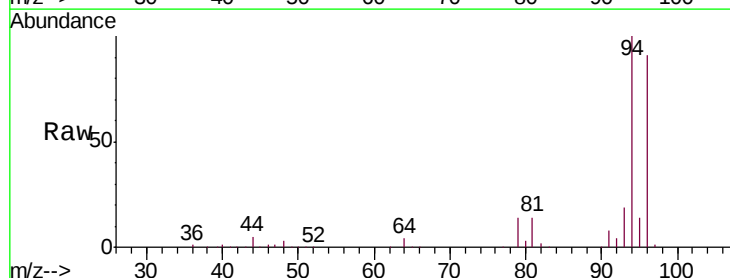
Acq: 31 Mar 2019 21:02

Tgt Ion: 94 Resp: 111697

Ion Ratio Lower Upper

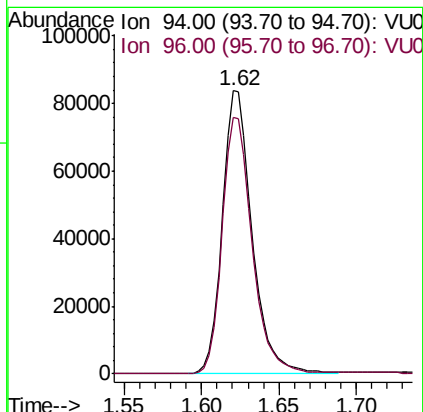
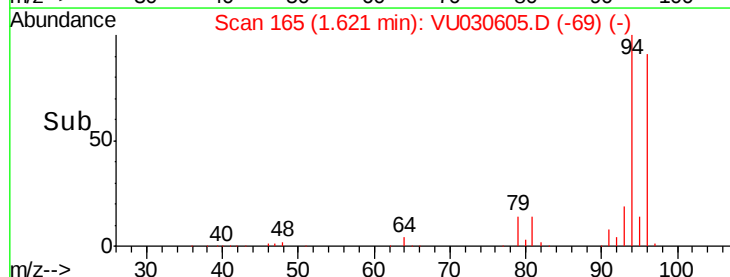
94 100

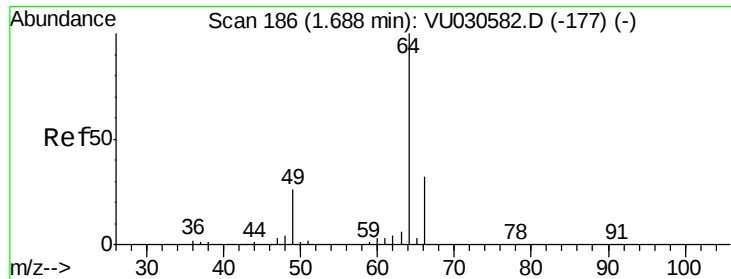
96 90.7 64.8 120.3



Abundance Ion 94.00 (93.70 to 94.70): VU030605.D (-69) (-)

Ion 96.00 (95.70 to 96.70): VU030605.D (-69) (-)

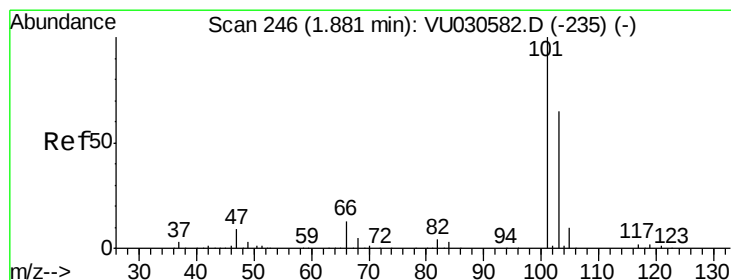
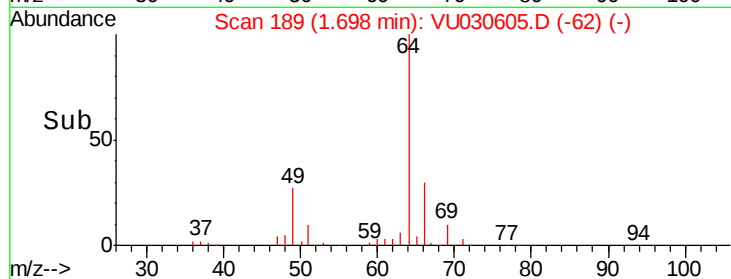
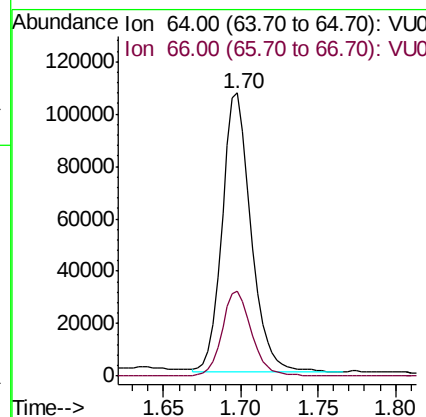
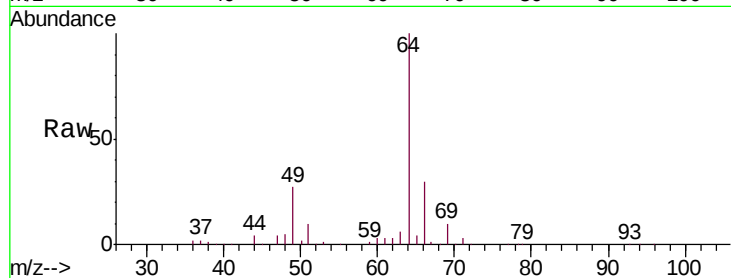




#8
 Chloroethane
 Concen: 45.762 ug/L
 RT: 1.70 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

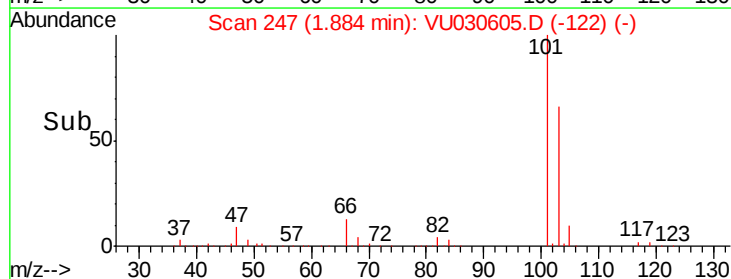
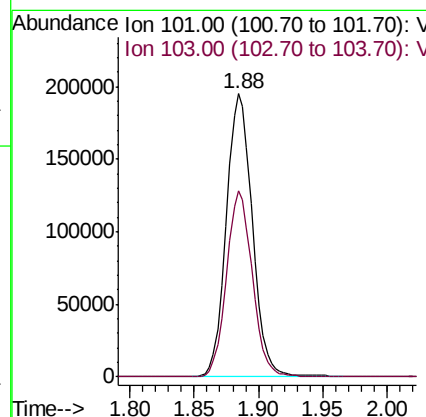
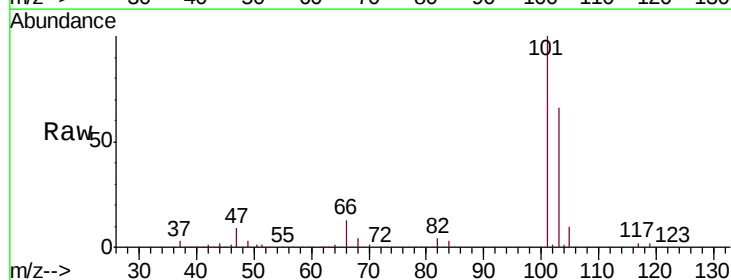
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

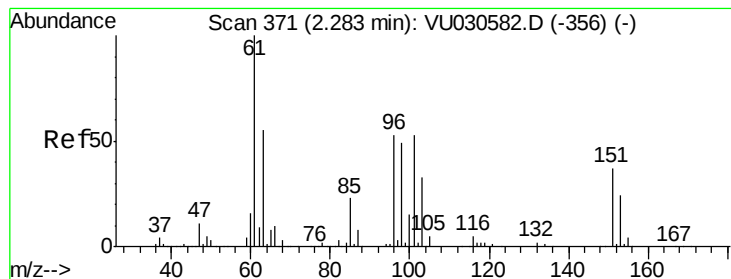
Tgt Ion: 64 Resp: 137843
 Ion Ratio Lower Upper
 64 100
 66 30.0 22.5 41.7



#9
 Trichlorofluoromethane
 Concen: 47.092 ug/L
 RT: 1.88 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Tgt Ion: 101 Resp: 274000
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.1 76.7





#10

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

Concen: 43.616 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

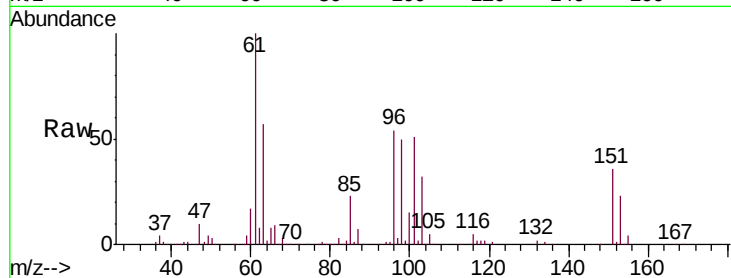
Tgt Ion:101 Resp: 145148

Ion Ratio Lower Upper

101 100

85 45.9 34.8 52.2

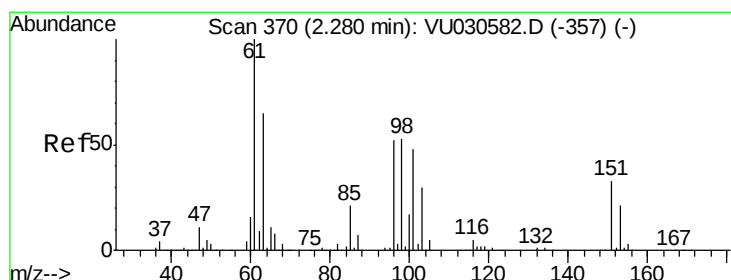
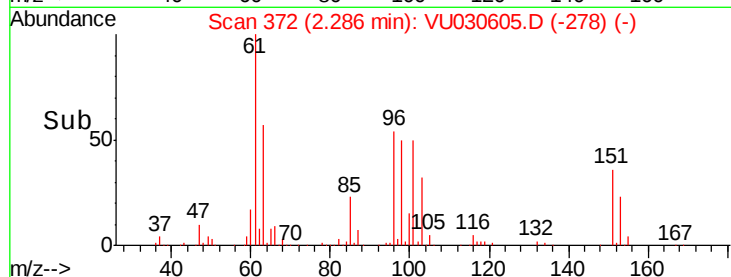
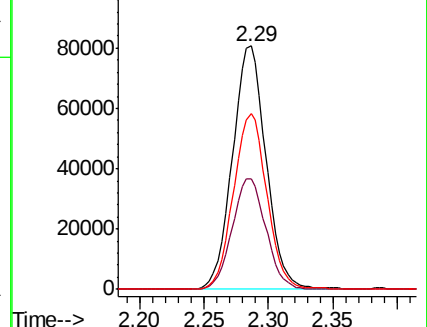
151 72.3 56.6 85.0



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: 45.179 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

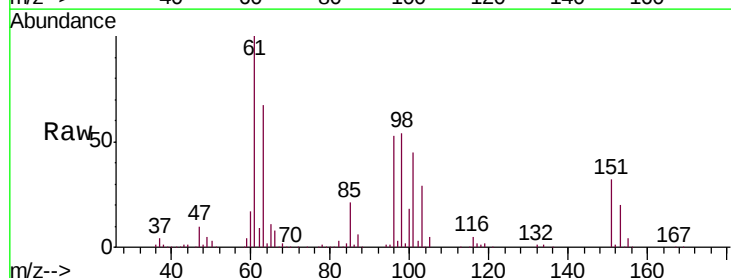
Tgt Ion: 96 Resp: 147391

Ion Ratio Lower Upper

96 100

61 188.0 131.0 243.4

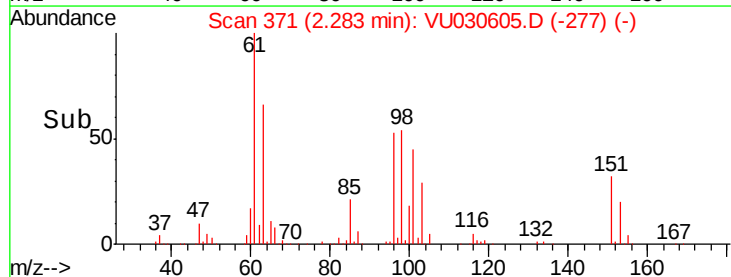
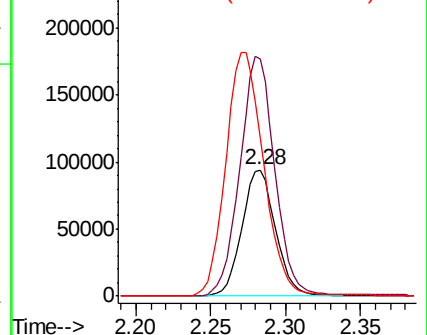
63 125.1 92.4 171.6

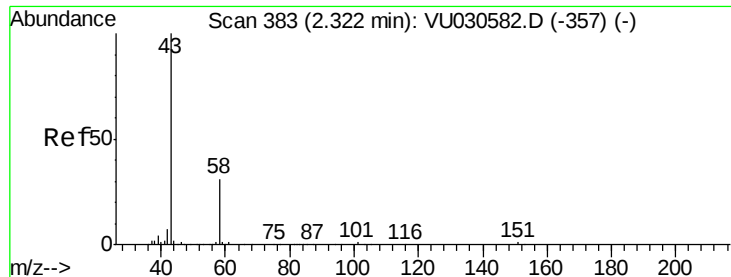


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 67.756 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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Acq: 31 Mar 2019 21:02

Instrument :

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ClientSampleId :

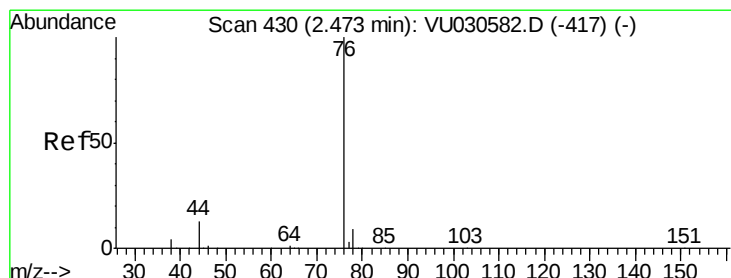
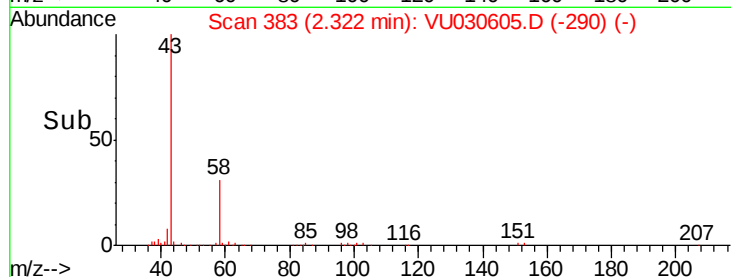
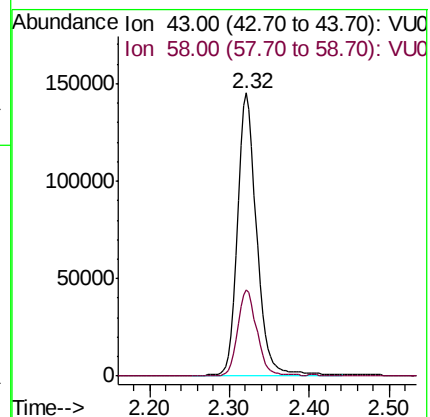
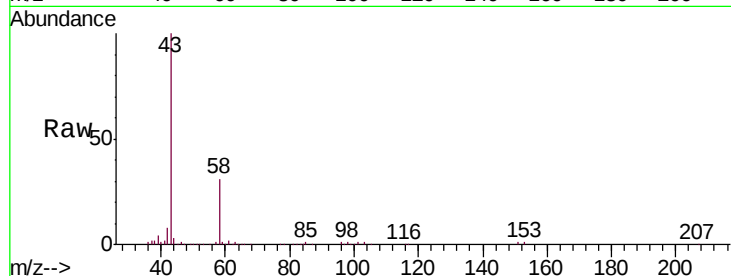
VSTD05043

Tgt Ion: 43 Resp: 236372

Ion Ratio Lower Upper

43 100

58 30.6 0.0 62.8



#14

Carbon disulfide

Concen: 40.262 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030605.D

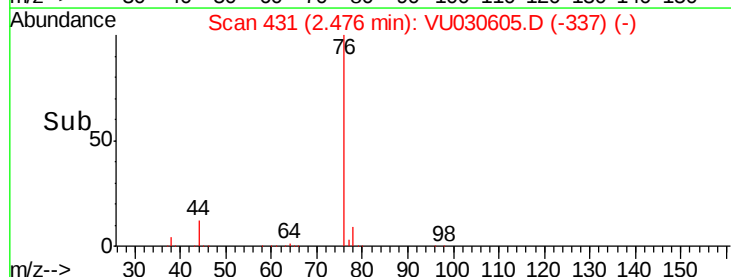
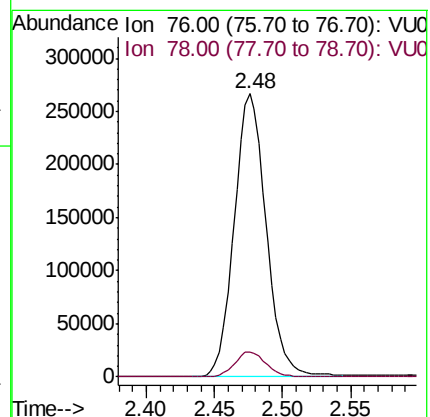
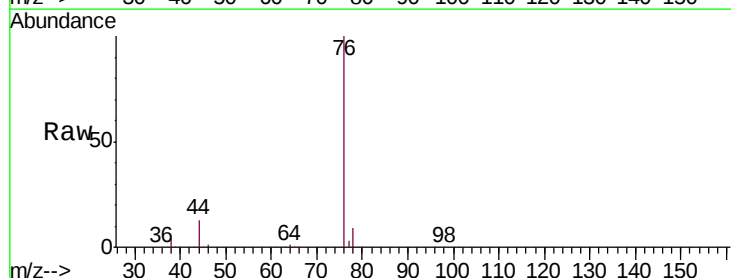
Acq: 31 Mar 2019 21:02

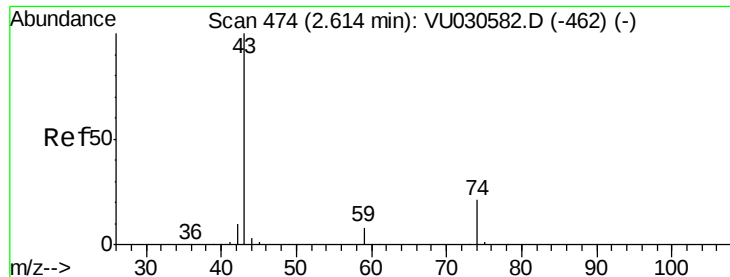
Tgt Ion: 76 Resp: 434293

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9

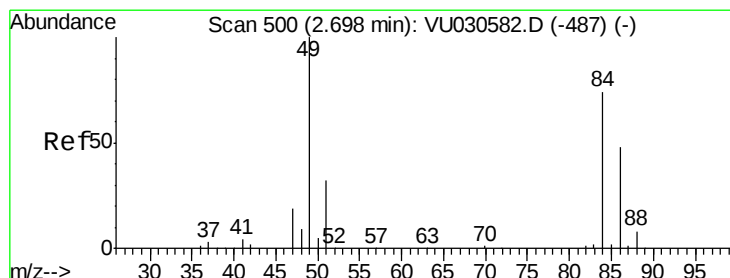
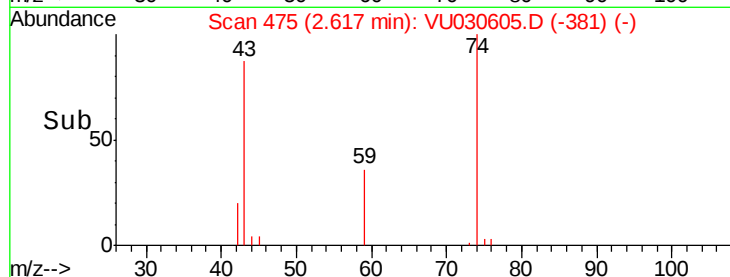
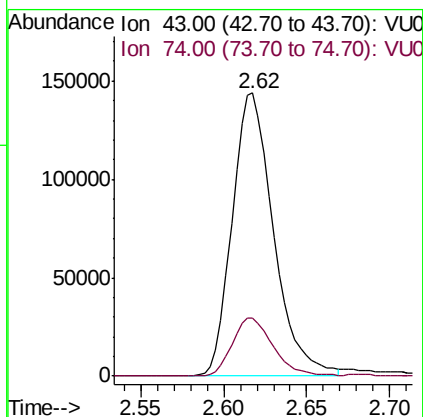
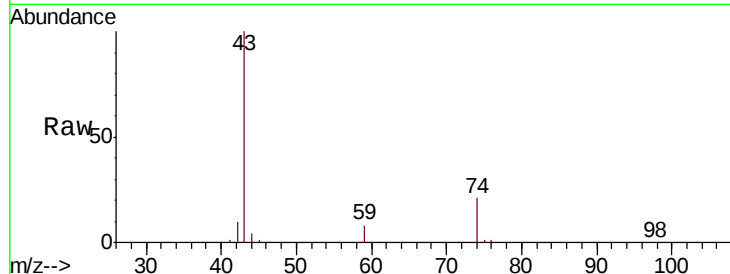




#15
Methyl Acetate
Concen: 46.400 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU030605.D
Acq: 31 Mar 2019 21:02

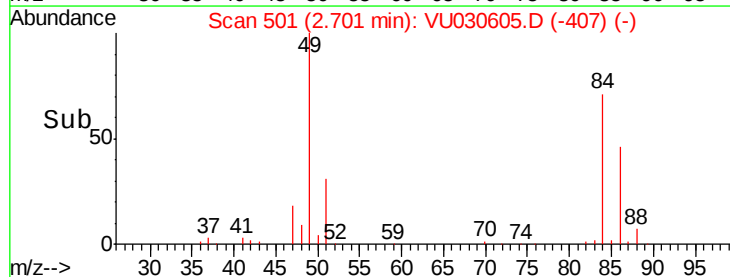
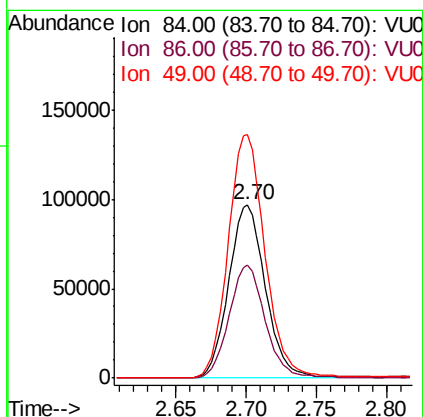
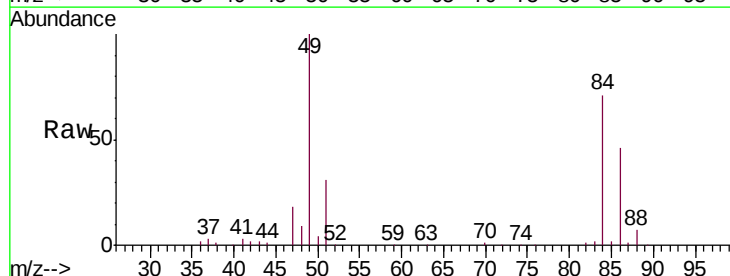
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

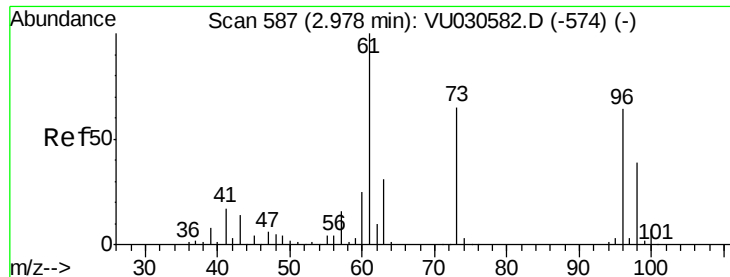
Tgt Ion: 43 Resp: 247857
Ion Ratio Lower Upper
43 100
74 20.4 0.0 0.0#



#16
Methylene chloride
Concen: 45.936 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU030605.D
Acq: 31 Mar 2019 21:02

Tgt Ion: 84 Resp: 176662
Ion Ratio Lower Upper
84 100
86 64.9 44.3 82.3
49 140.5 94.9 176.3





#17

trans-1,2-Dichloroethene

Concen: 43.223 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

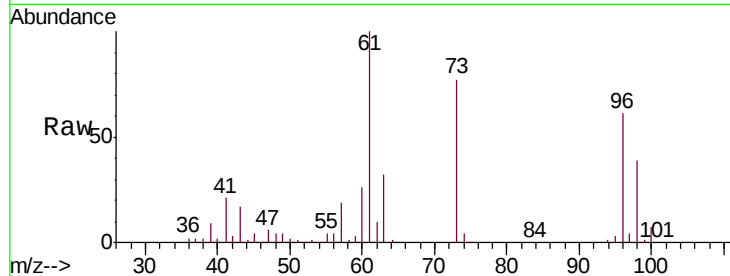
Tgt Ion: 96 Resp: 147936

Ion Ratio Lower Upper

96 100

61 163.1 108.6 201.8

98 64.2 42.3 78.5

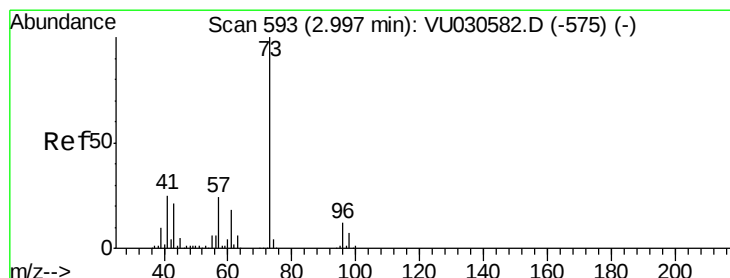
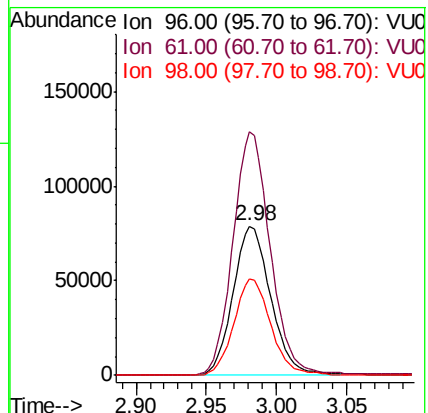
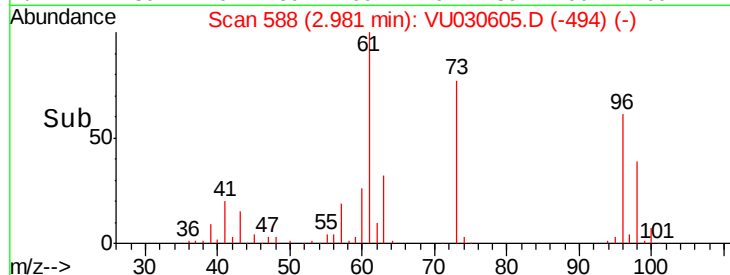


Abundance Ion 96.00 (95.70 to 96.70): VU030582.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU030582.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU030582.D (-574) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 45.958 ug/L

RT: 3.00 min Scan# 594

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

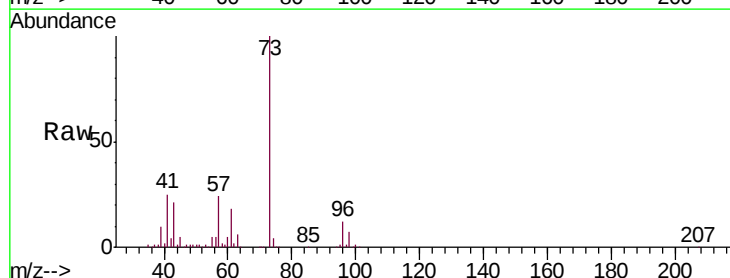
Tgt Ion: 73 Resp: 520174

Ion Ratio Lower Upper

73 100

43 21.1 16.6 24.8

57 24.2 18.9 28.3

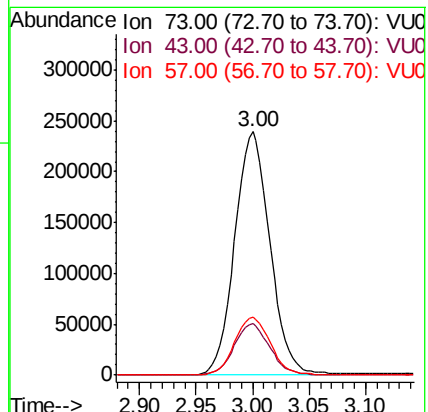
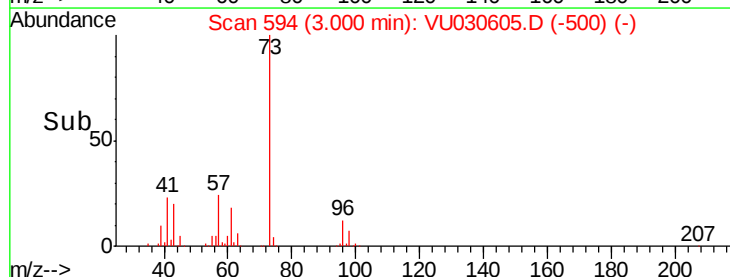


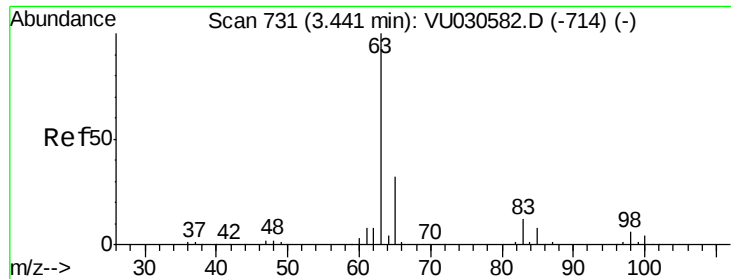
Abundance Ion 73.00 (72.70 to 73.70): VU030582.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU030582.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU030582.D (-575) (-)

Time-->

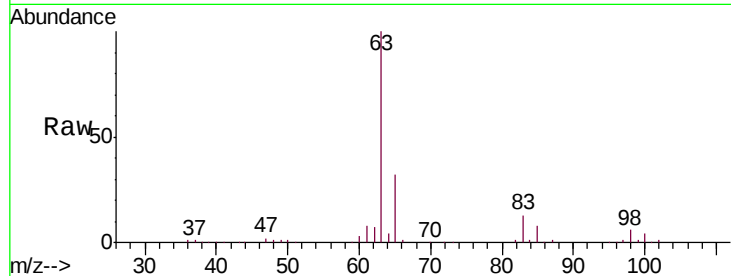




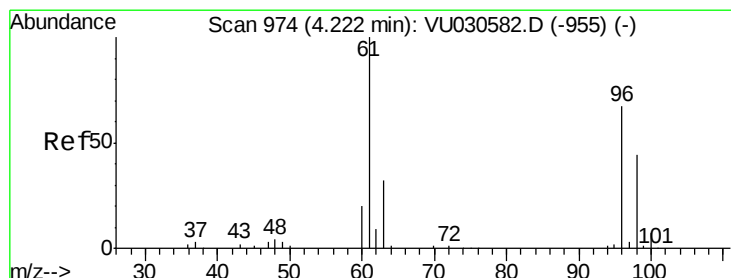
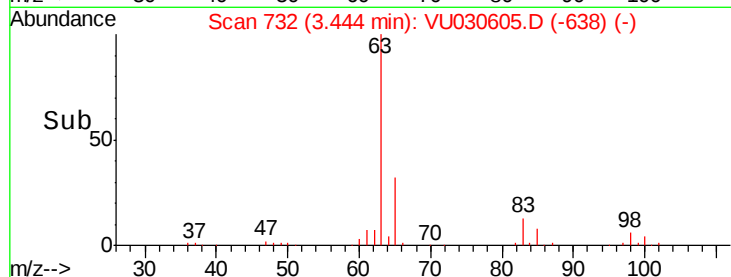
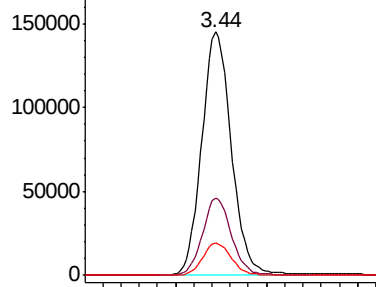
#19
 1,1-Dichloroethane
 Concen: 47.040 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tgt Ion: 63 Resp: 330308
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.0 40.8
 83 13.1 9.1 16.9

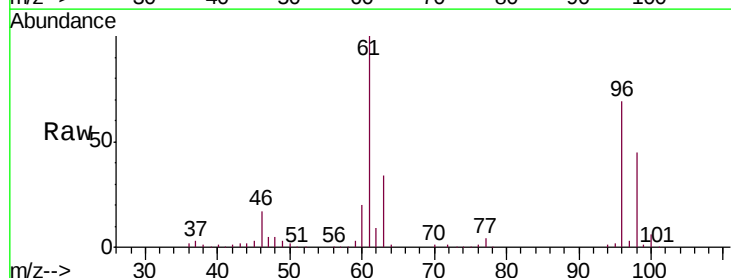


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

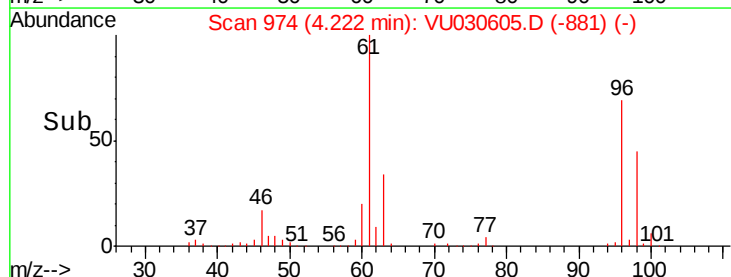
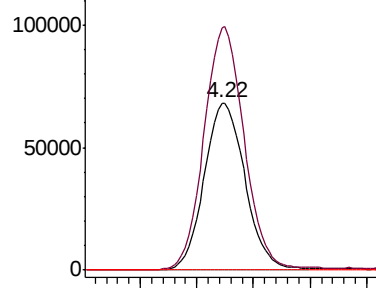


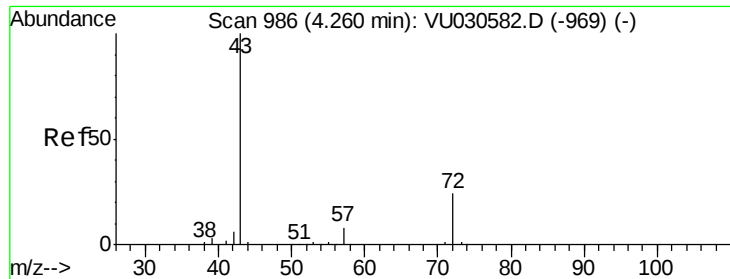
#20
 cis-1,2-Dichloroethene
 Concen: 44.732 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Tgt Ion: 96 Resp: 171700
 Ion Ratio Lower Upper
 96 100
 61 145.1 98.4 182.8
 68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 86.064 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

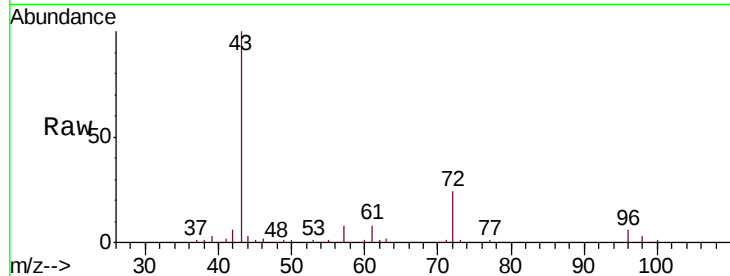
VSTD05043

Tgt Ion: 43 Resp: 362903

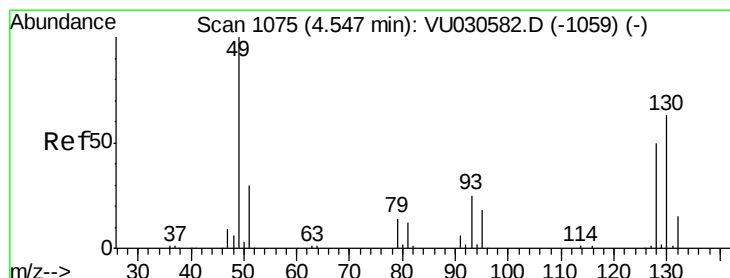
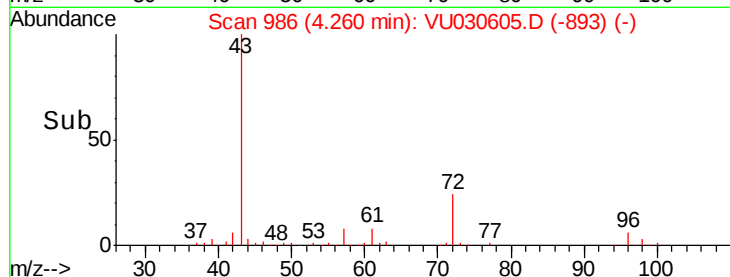
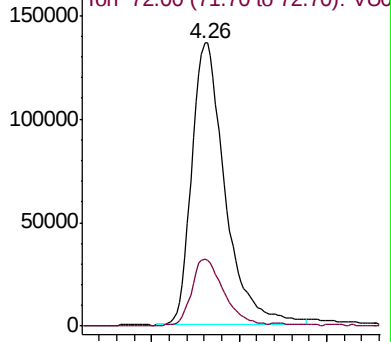
Ion Ratio Lower Upper

43 100

72 23.2 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU030605.D (-893) (-)



#23

Bromochloromethane

Concen: 45.531 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Tgt Ion: 128 Resp: 81232

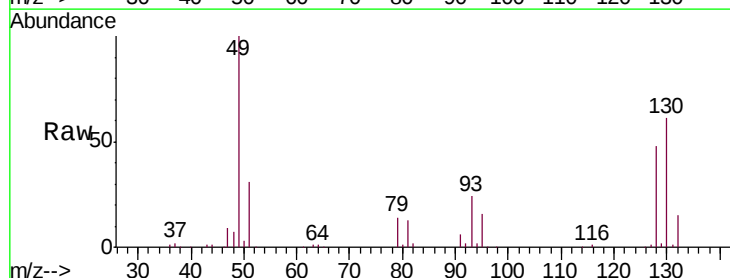
Ion Ratio Lower Upper

128 100

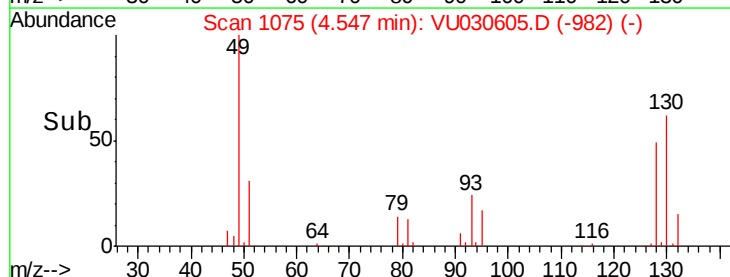
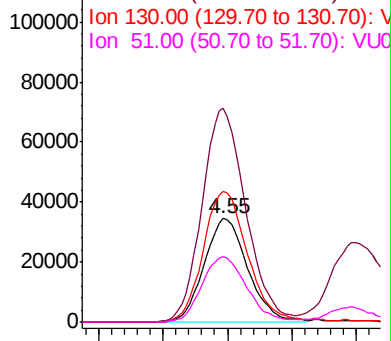
49 206.7 145.5 270.3

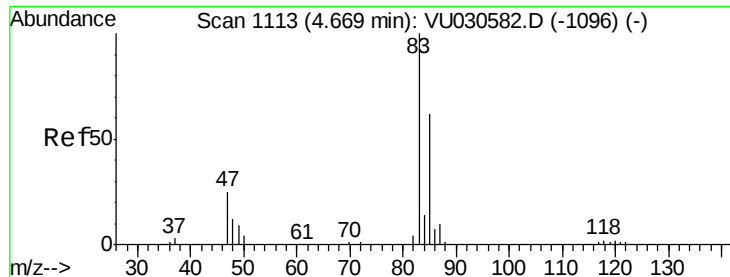
130 126.1 95.3 177.1

51 63.6 52.2 78.2



Abundance Ion 128.00 (127.70 to 128.70): VU030605.D (-982) (-)





#25

Chloroform

Concen: 47.248 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

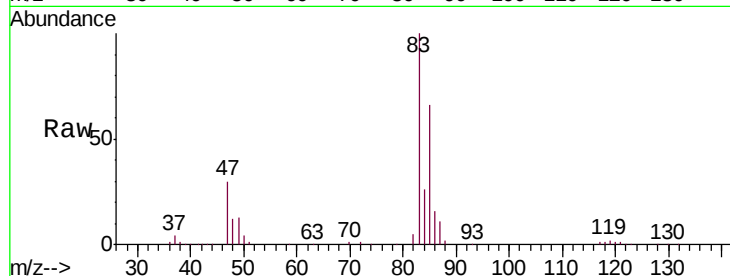
VSTD05043

Tgt Ion: 83 Resp: 315442

Ion Ratio Lower Upper

83 100

85 65.9 44.4 82.4



Abundance Ion 83.00 (82.70 to 83.70): VU030582.D (-1096) (-)

Ion 85.00 (84.70 to 85.70): VU030582.D (-1096) (-)

4.67

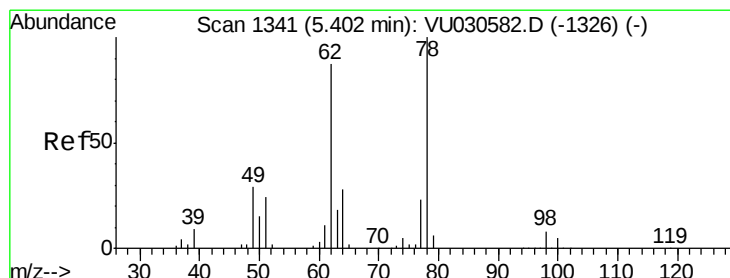
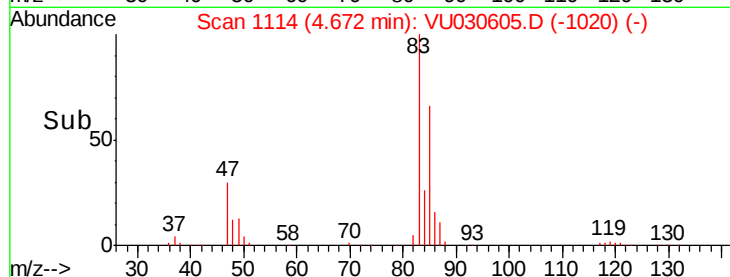
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 47.343 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030605.D

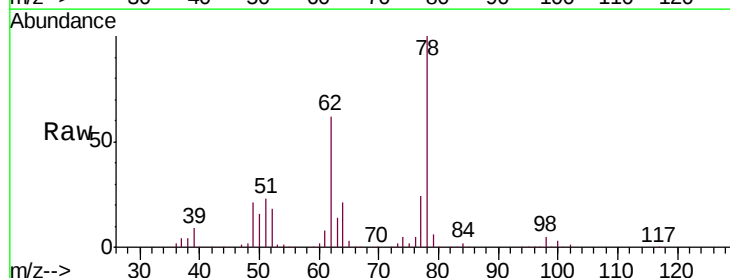
Acq: 31 Mar 2019 21:02

Tgt Ion: 62 Resp: 248024

Ion Ratio Lower Upper

62 100

98 8.4 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU030582.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU030582.D (-1326) (-)

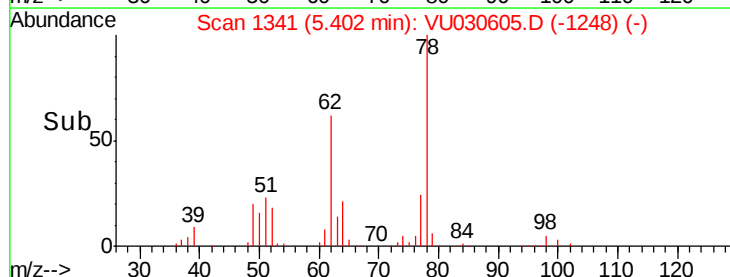
5.40

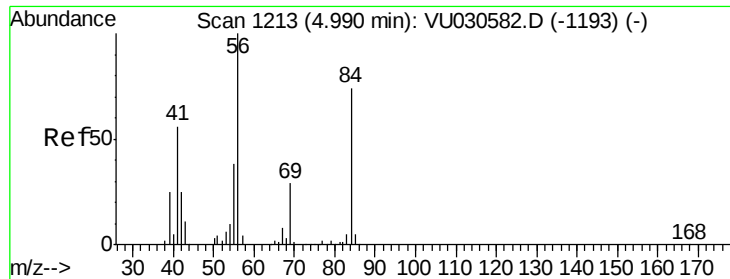
100000

50000

0

Time-->

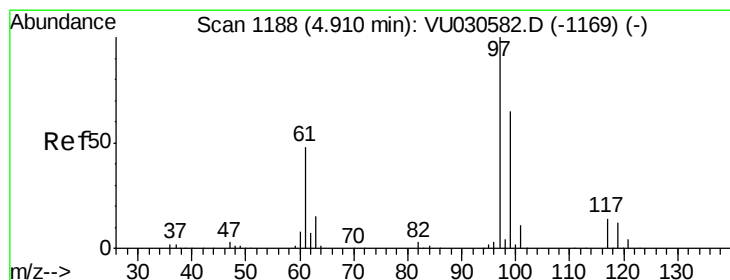
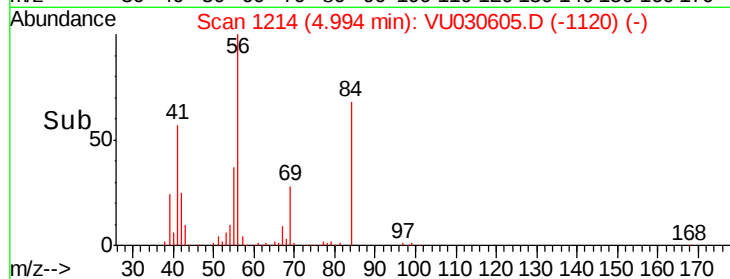
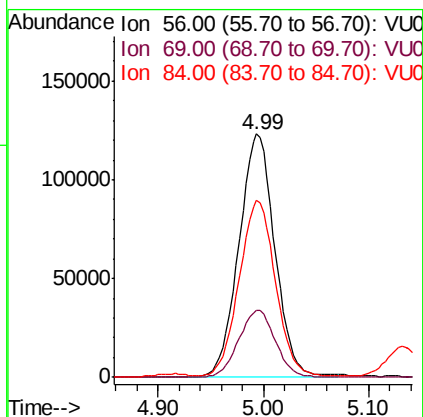
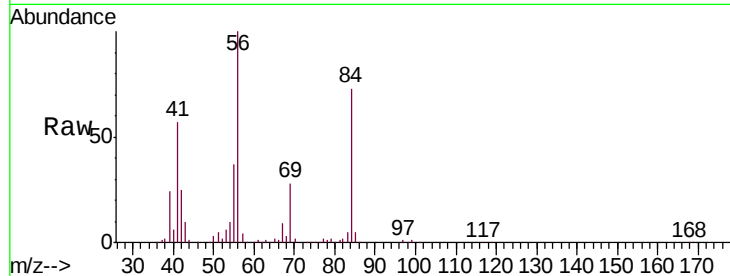




#29
Cyclohexane
Concen: 43.747 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030605.D
Acq: 31 Mar 2019 21:02

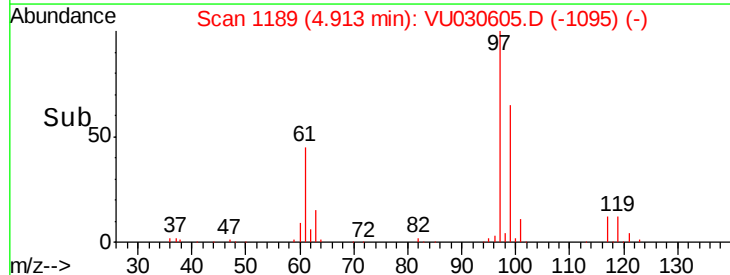
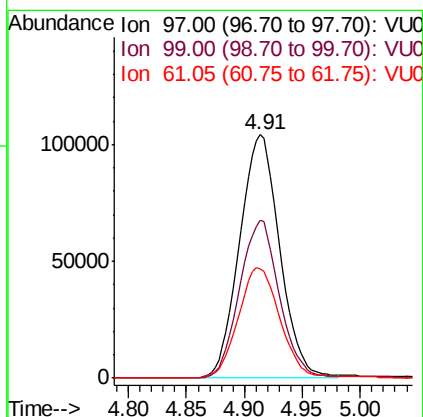
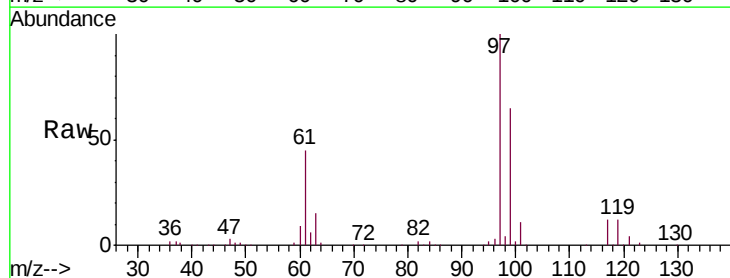
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

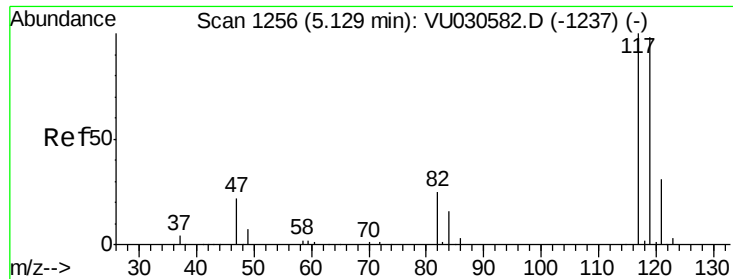
Tgt Ion: 56 Resp: 292501
Ion Ratio Lower Upper
56 100
69 27.9 22.9 34.3
84 72.9 58.9 88.3



#30
1,1,1-Trichloroethane
Concen: 46.426 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU030605.D
Acq: 31 Mar 2019 21:02

Tgt Ion: 97 Resp: 251162
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 46.8 38.2 57.4





#31

Carbon tetrachloride

Concen: 45.820 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

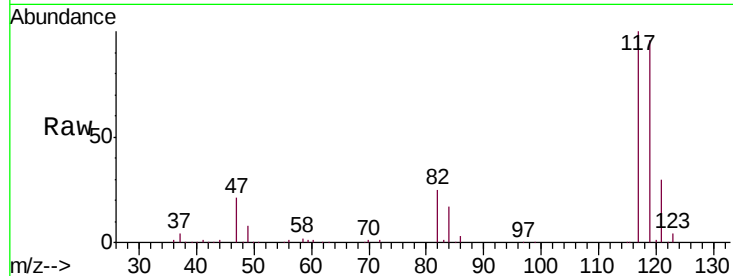
VSTD05043

Tgt Ion:117 Resp: 210108

Ion Ratio Lower Upper

117 100

119 97.6 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

100000

80000

60000

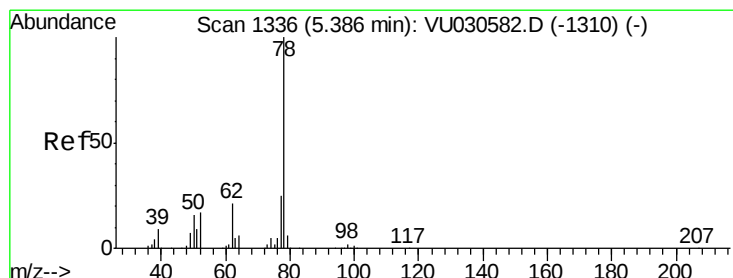
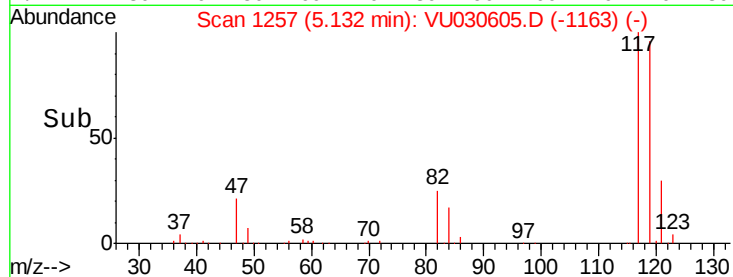
40000

20000

0

Time-->

5.05 5.10 5.15 5.20



#33

Benzene

Concen: 46.310 ug/L

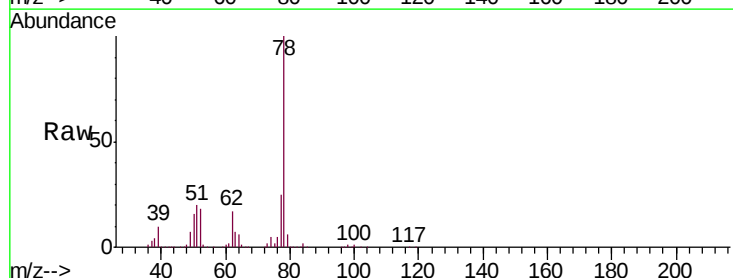
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Tgt Ion: 78 Resp: 696510



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.39

300000

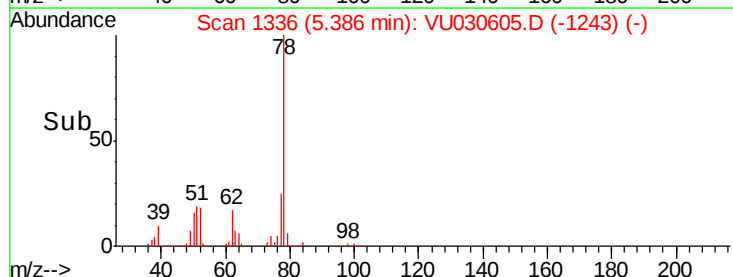
200000

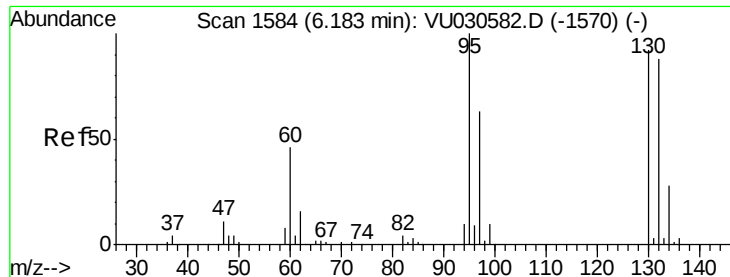
100000

0

Time-->

5.30 5.40 5.50





#34

Trichloroethene

Concen: 44.557 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

Tgt Ion: 95 Resp: 164744

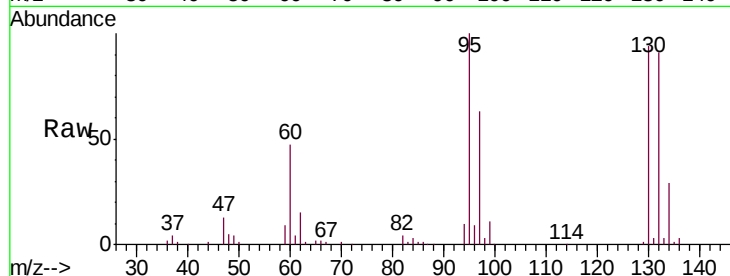
Ion Ratio Lower Upper

95 100

97 62.7 45.7 84.9

132 90.5 63.8 118.4

130 93.6 65.7 121.9

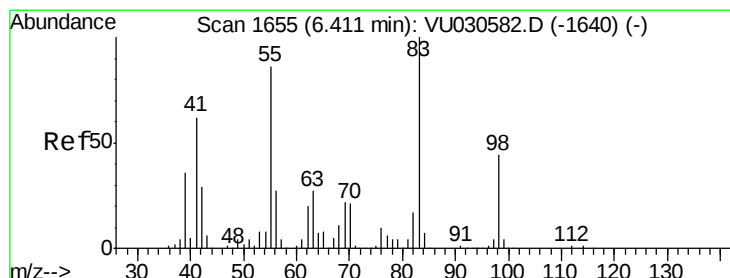
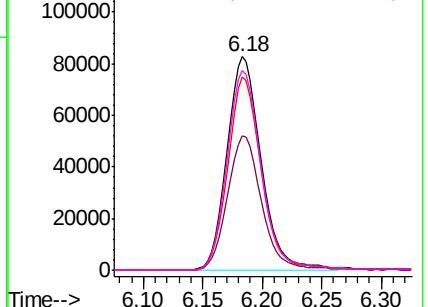
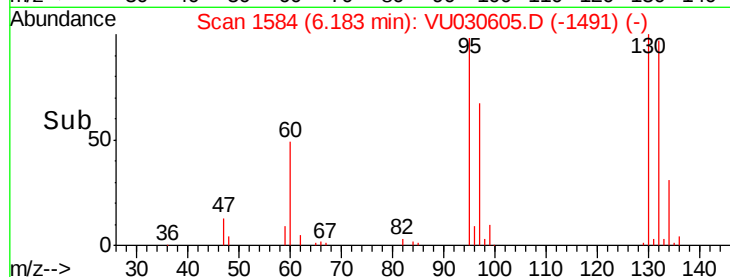


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 41.824 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

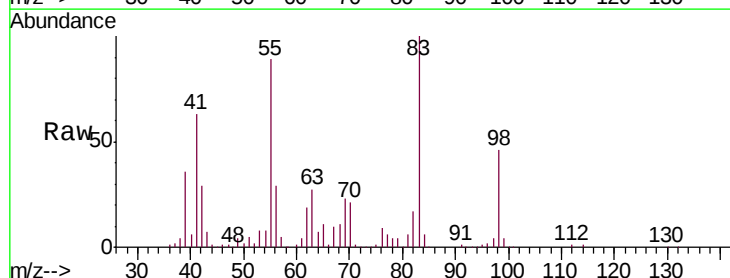
Tgt Ion: 83 Resp: 254470

Ion Ratio Lower Upper

83 100

55 91.2 71.4 107.0

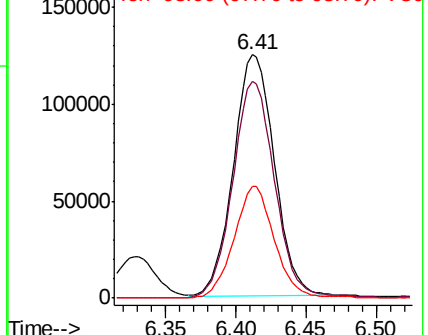
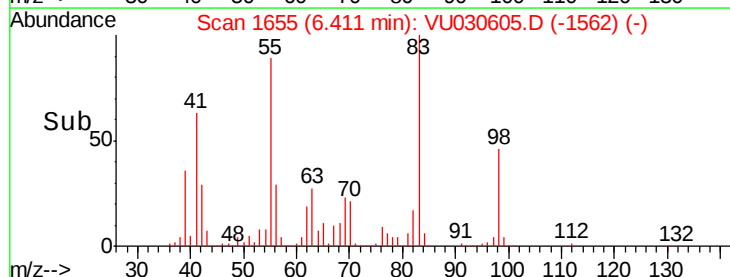
98 45.2 36.0 54.0

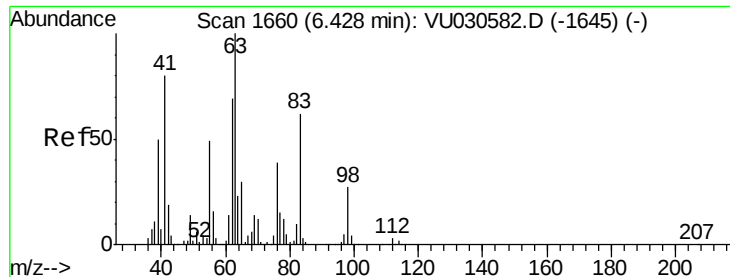


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 45.670 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampled :

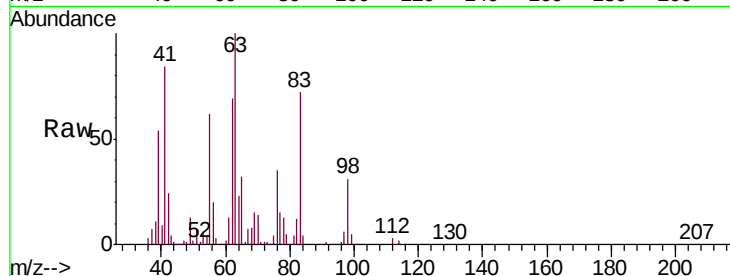
VSTD05043

Tgt Ion: 63 Resp: 194930

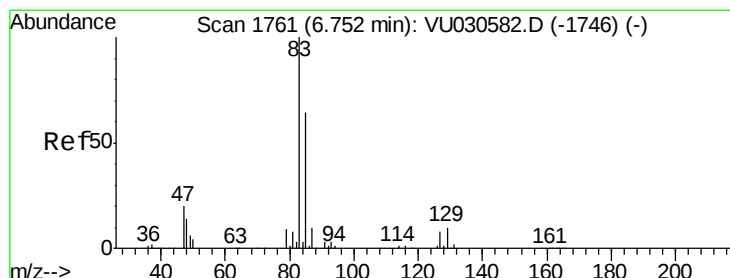
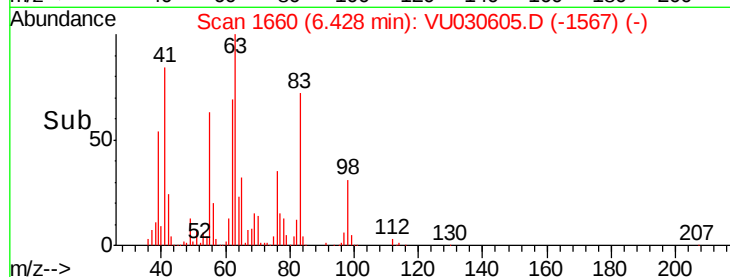
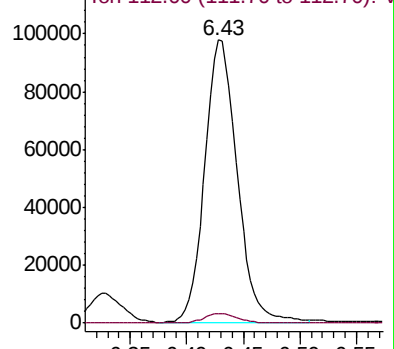
Ion Ratio Lower Upper

63 100

112 3.5 2.6 4.0



Abundance Ion 63.00 (62.70 to 63.70): VU030582.D (-1645) (-)



#38

Bromodichloromethane

Concen: 45.698 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

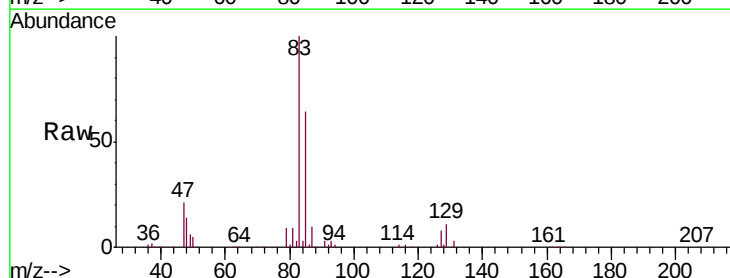
Tgt Ion: 83 Resp: 231763

Ion Ratio Lower Upper

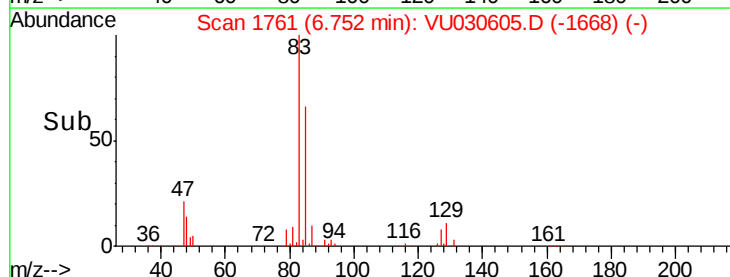
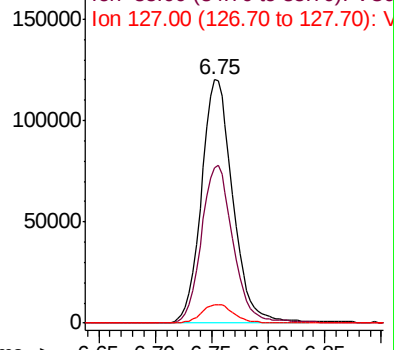
83 100

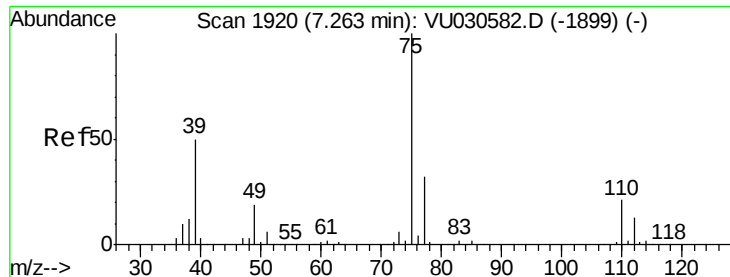
85 64.0 45.0 83.6

127 7.7 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VU030582.D (-1746) (-)

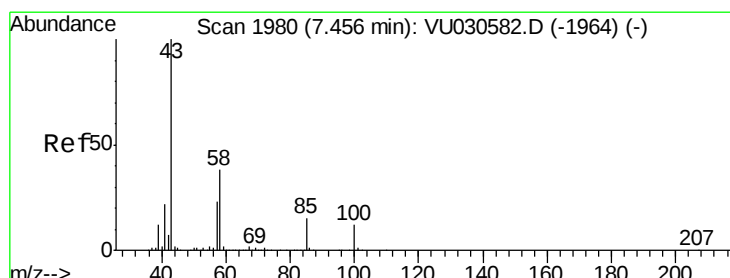
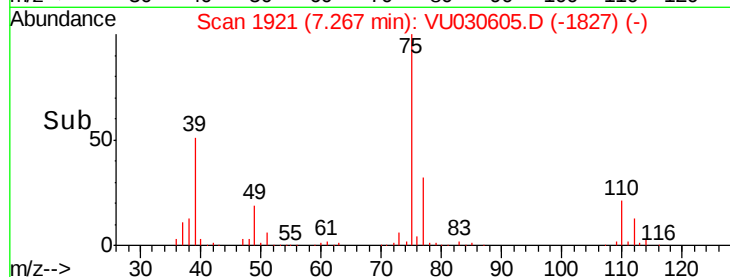
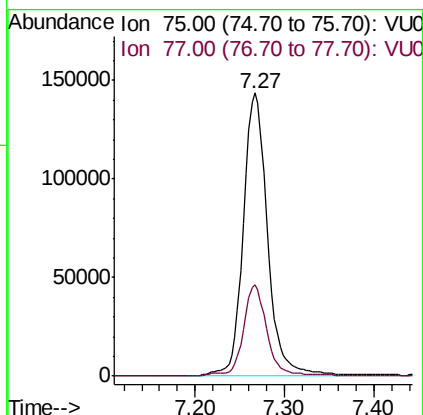
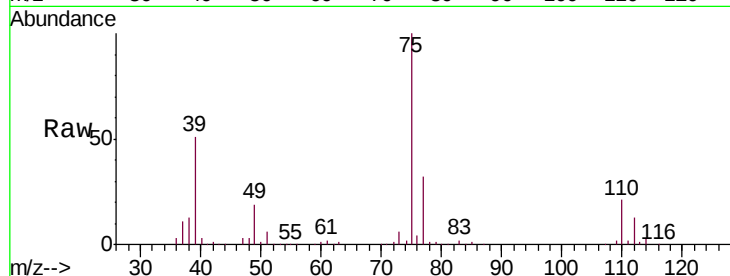




#39
 cis-1,3-Dichloropropene
 Concen: 44.582 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

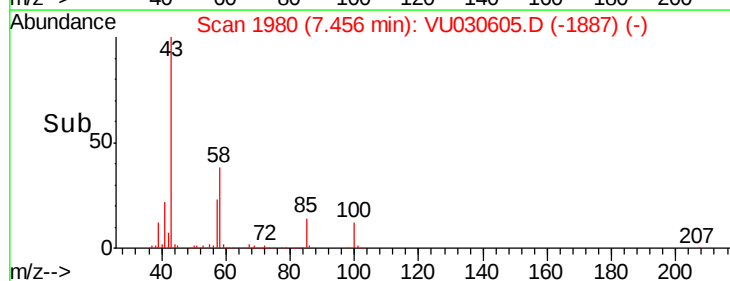
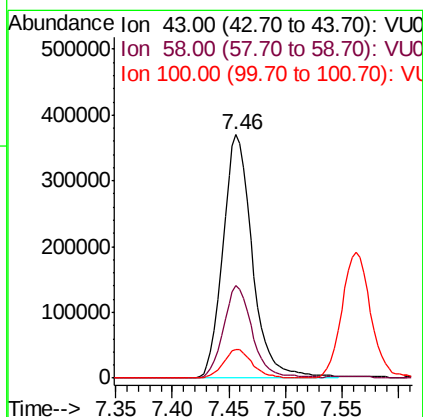
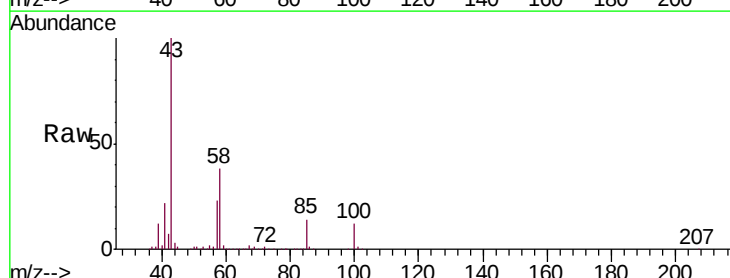
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

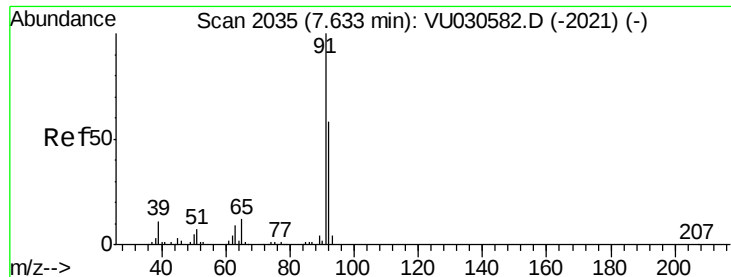
Tgt Ion: 75 Resp: 273514
 Ion Ratio Lower Upper
 75 100
 77 32.4 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 93.711 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Tgt Ion: 43 Resp: 671854
 Ion Ratio Lower Upper
 43 100
 58 37.1 30.6 45.8
 100 11.7 9.5 14.3





#42

Toluene

Concen: 46.206 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

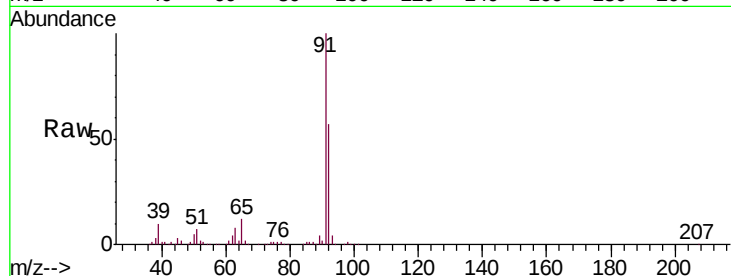
VSTD05043

Tgt Ion: 91 Resp: 721245

Ion Ratio Lower Upper

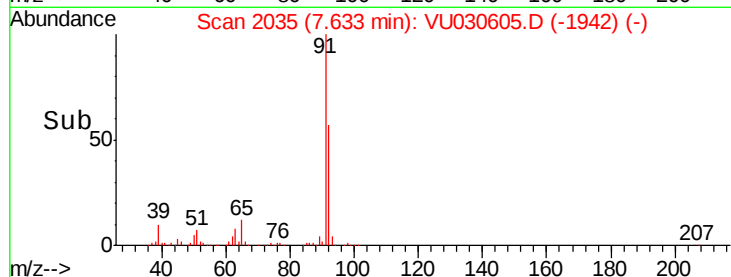
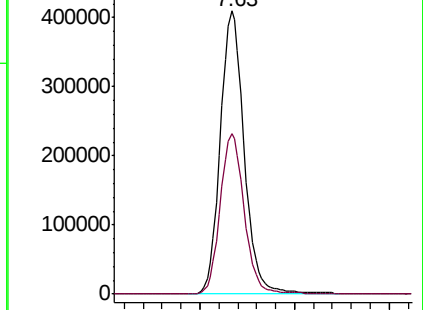
91 100

92 56.8 39.7 73.7

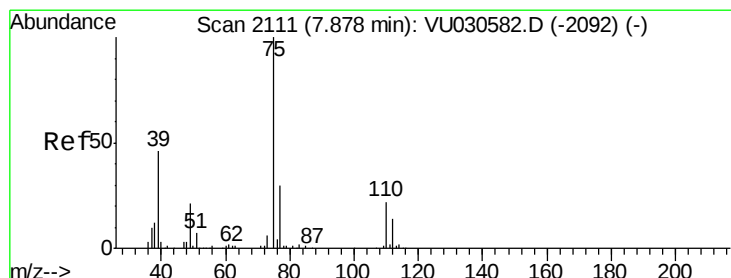


Abundance Ion 91.00 (90.70 to 91.70): VU030605.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU030605.D (-1942) (-)



Time-->



#44

trans-1,3-Dichloropropene

Concen: 45.518 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030605.D

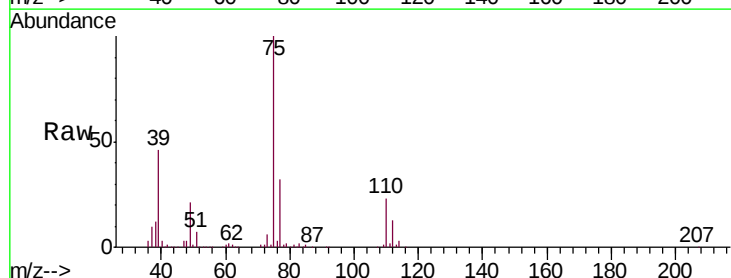
Acq: 31 Mar 2019 21:02

Tgt Ion: 75 Resp: 245711

Ion Ratio Lower Upper

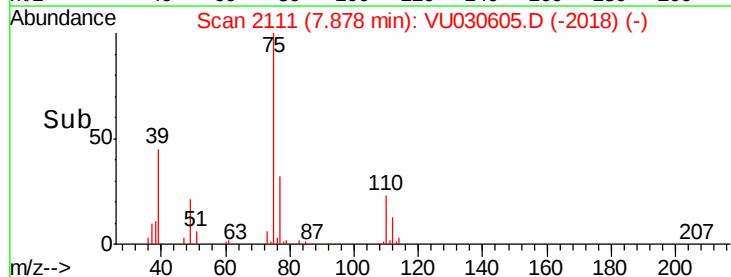
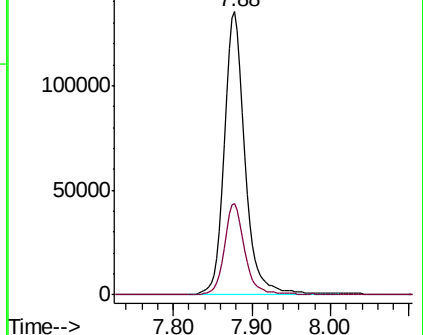
75 100

77 32.4 22.0 40.8

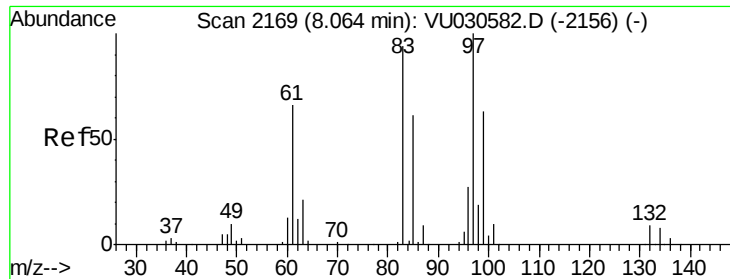


Abundance Ion 75.00 (74.70 to 75.70): VU030605.D (-2018) (-)

Ion 77.00 (76.70 to 77.70): VU030605.D (-2018) (-)



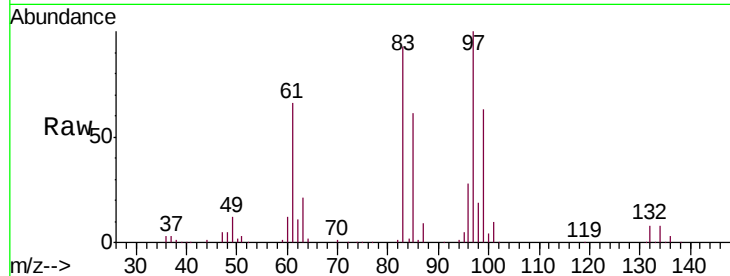
Time-->



#45
 1,1,2-Trichloroethane
 Concen: 45.244 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tgt Ion:	97	Resp:	163169
Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.0	81.8
83	93.1	65.3	121.3
85	61.4	41.8	77.6



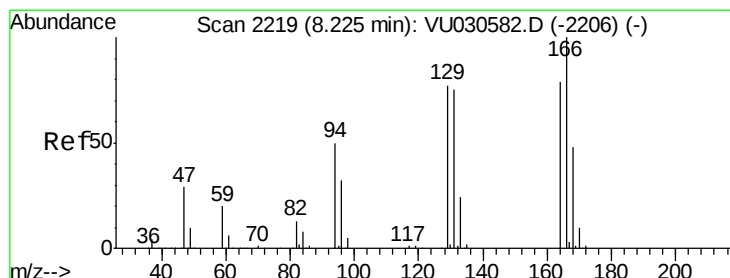
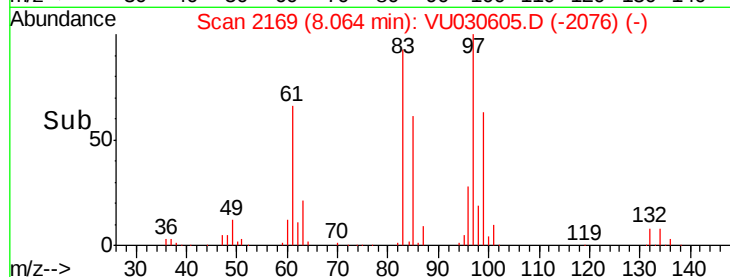
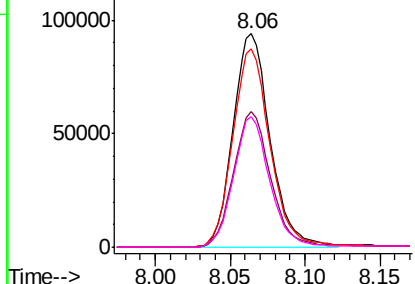
Abundance

Ion 97.00 (96.70 to 97.70): VU030582.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU030582.D (-2156) (-)

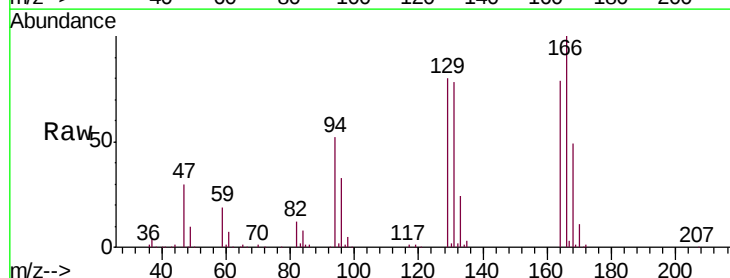
Ion 83.00 (82.70 to 83.70): VU030582.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU030582.D (-2156) (-)



#46
 Tetrachloroethene
 Concen: 45.375 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Tgt Ion:	164	Resp:	117179
Ion	Ratio	Lower	Upper
164	100		
129	101.0	68.1	126.5
131	98.1	67.7	125.7
166	125.9	92.4	171.6



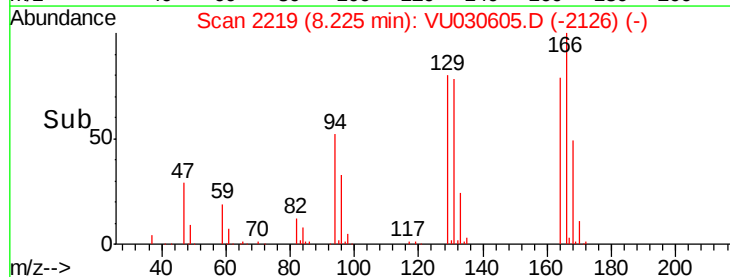
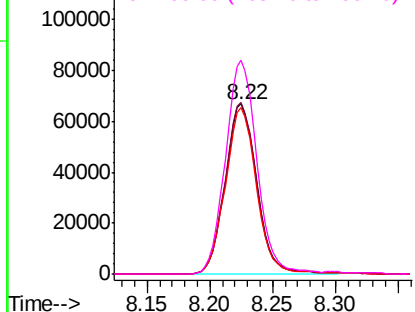
Abundance

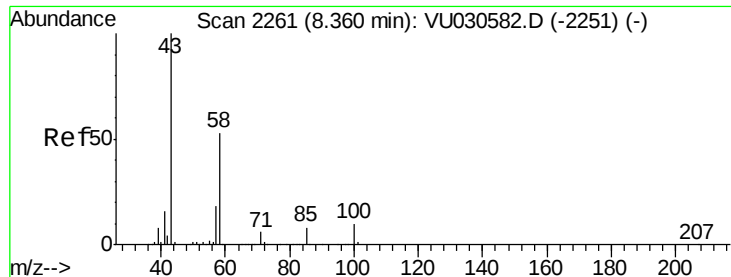
Ion 164.00 (163.70 to 164.70): VU030582.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU030582.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU030582.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU030582.D (-2206) (-)

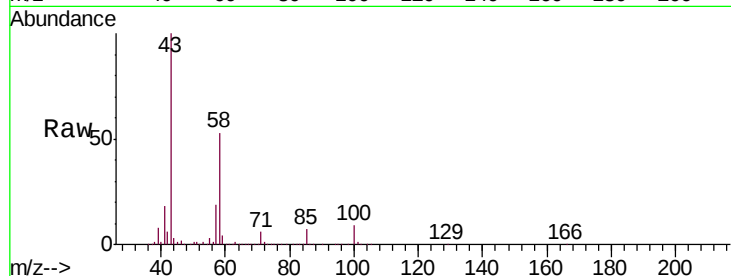




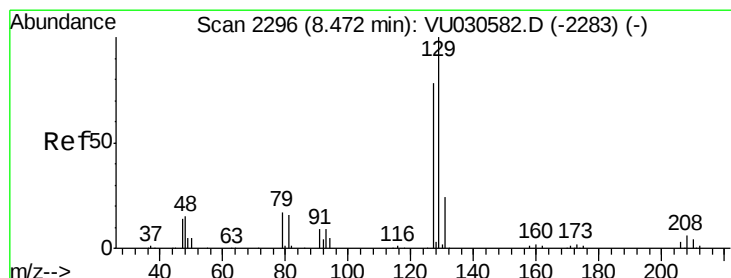
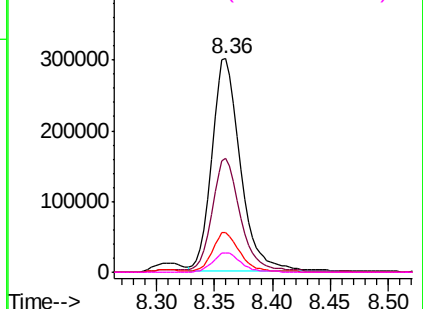
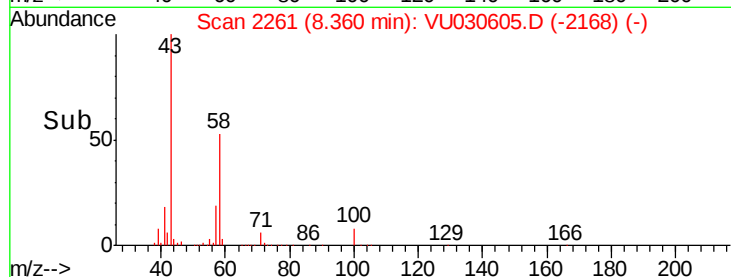
#48
2-Hexanone
Concen: 88.649 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030605.D
Acq: 31 Mar 2019 21:02

Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

Tgt Ion: 43 Resp: 520899
Ion Ratio Lower Upper
43 100
58 52.6 42.5 63.7
57 17.7 15.0 22.6
100 9.3 7.4 11.2

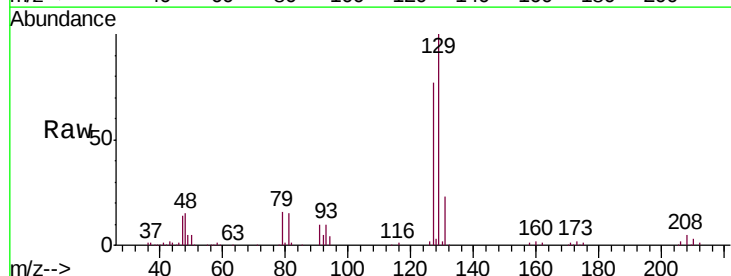


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

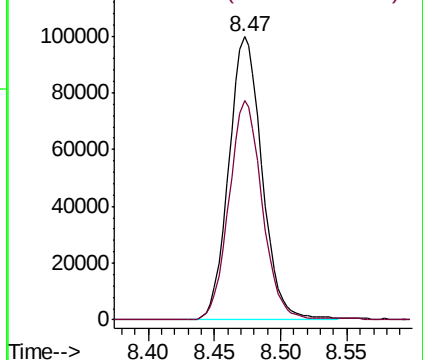
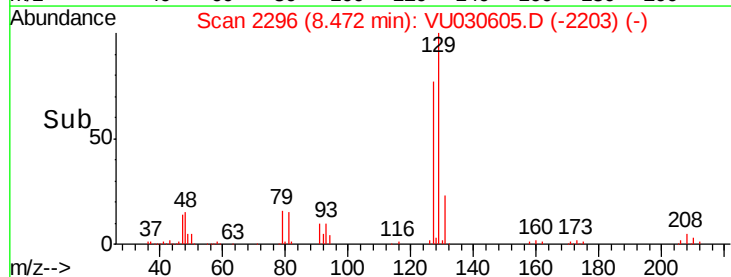


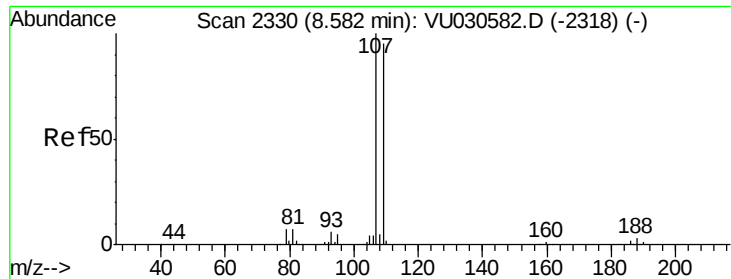
#49
Dibromochloromethane
Concen: 46.409 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030605.D
Acq: 31 Mar 2019 21:02

Tgt Ion: 129 Resp: 173909
Ion Ratio Lower Upper
129 100
127 77.3 53.2 98.8



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 45.009 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

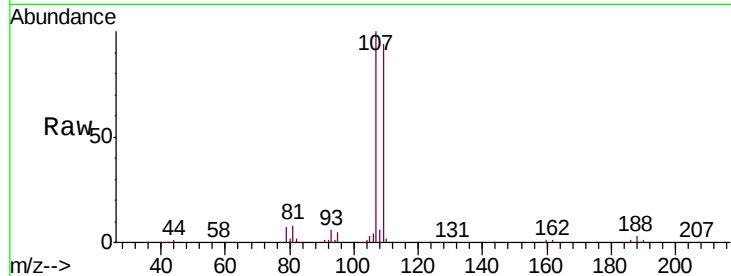
Tgt Ion:107 Resp: 174206

Ion Ratio Lower Upper

107 100

109 93.7 65.8 122.2

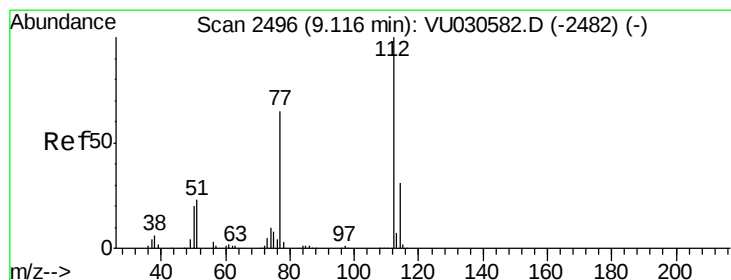
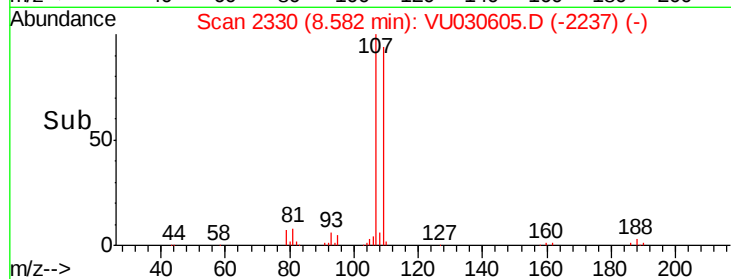
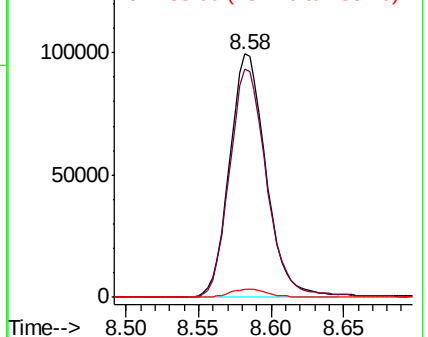
188 3.3 2.6 4.0



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: 45.236 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

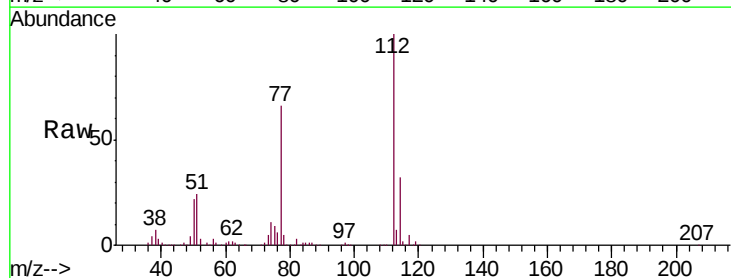
Tgt Ion:112 Resp: 427938

Ion Ratio Lower Upper

112 100

114 32.3 21.5 39.9

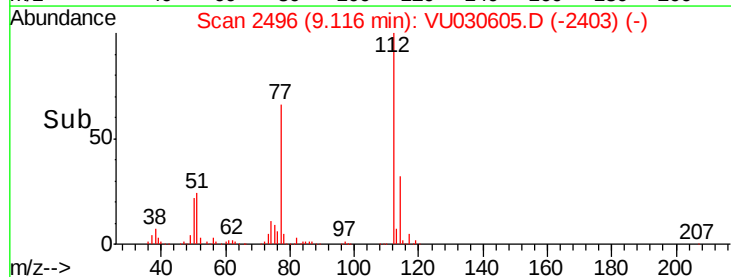
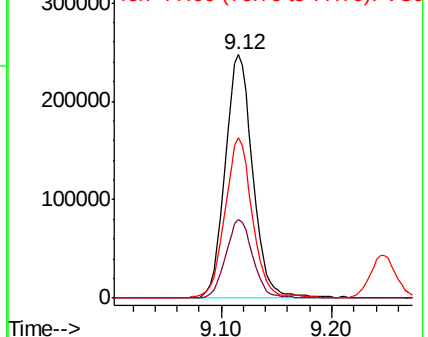
77 65.8 51.4 77.0

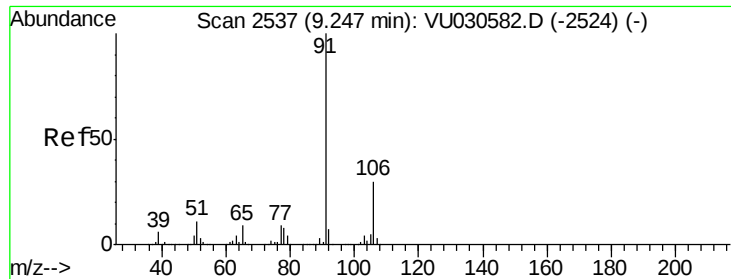


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 45.843 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

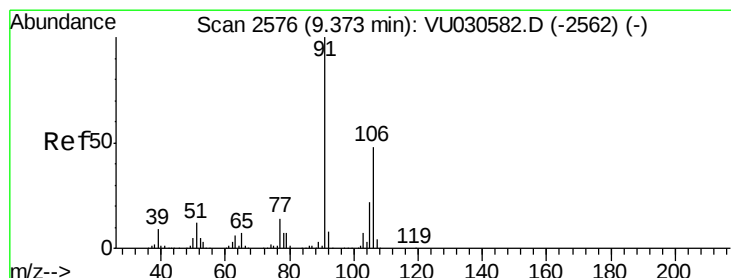
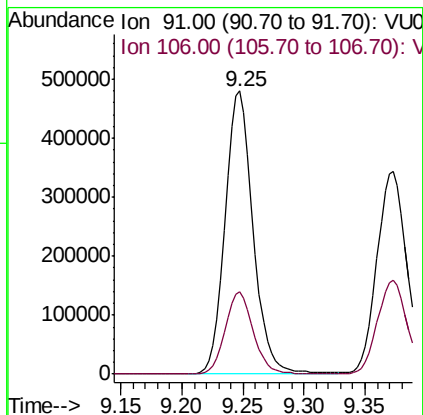
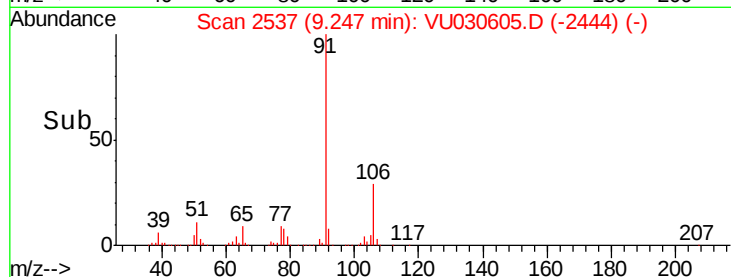
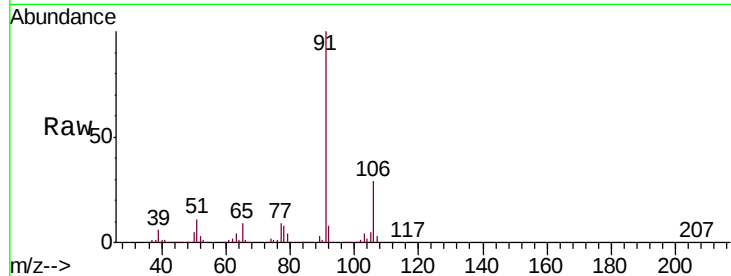
VSTD05043

Tgt Ion: 91 Resp: 775161

Ion Ratio Lower Upper

91 100

106 28.9 20.6 38.2



#53

m,p-Xylene

Concen: 44.627 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030605.D

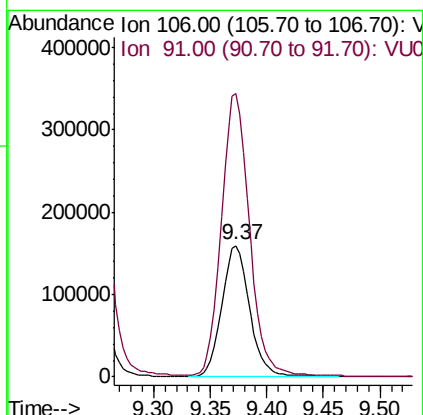
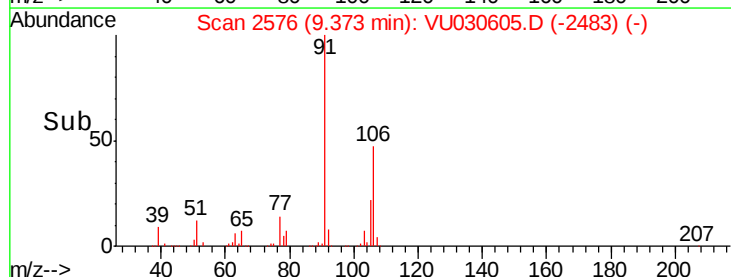
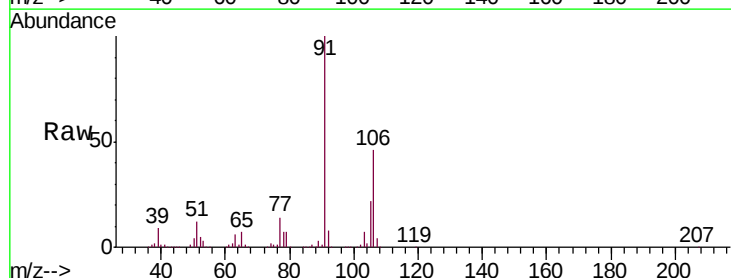
Acq: 31 Mar 2019 21:02

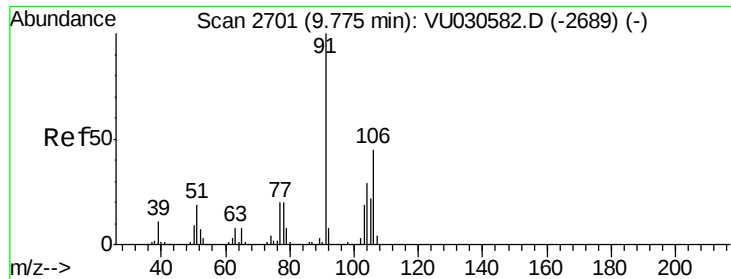
Tgt Ion: 106 Resp: 272464

Ion Ratio Lower Upper

106 100

91 215.2 151.2 280.8





#54

o-xylene

Concen: 45.703 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

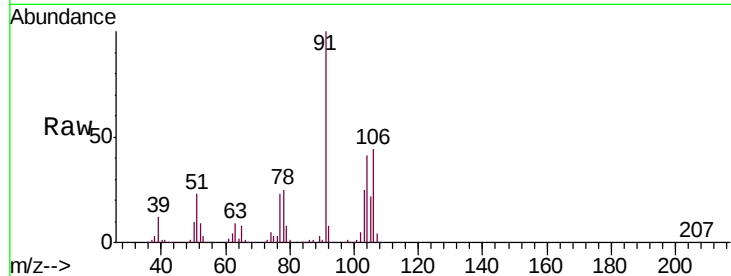
VSTD05043

Tgt Ion:106 Resp: 272269

Ion Ratio Lower Upper

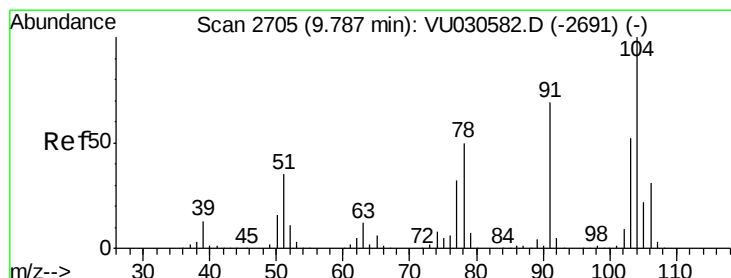
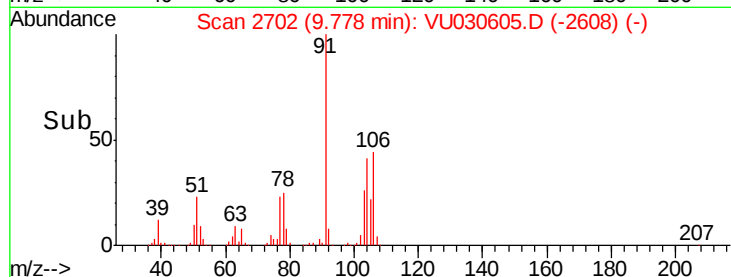
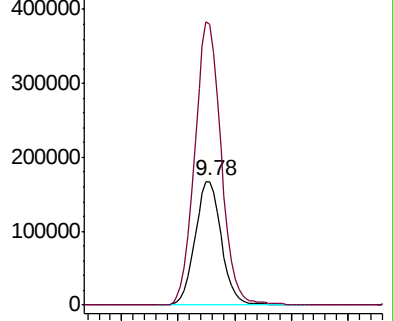
106 100

91 227.5 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 45.833 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030605.D

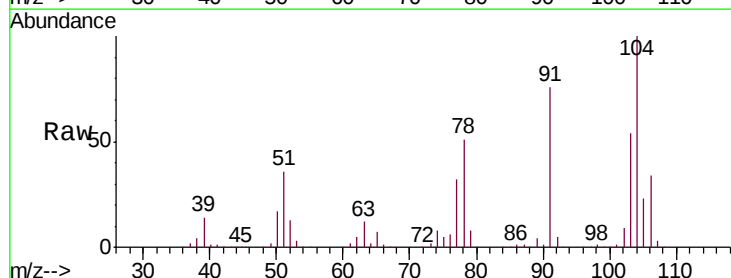
Acq: 31 Mar 2019 21:02

Tgt Ion:104 Resp: 470338

Ion Ratio Lower Upper

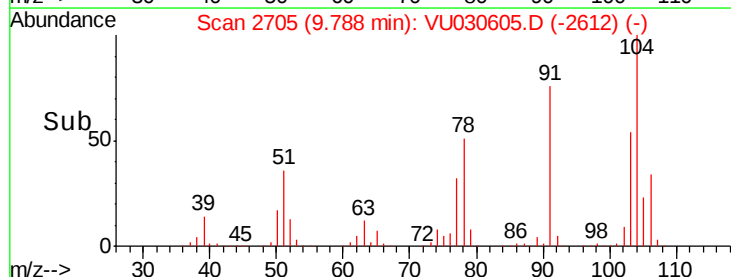
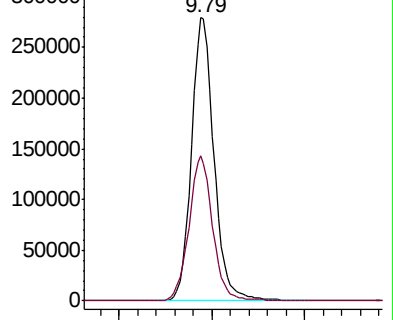
104 100

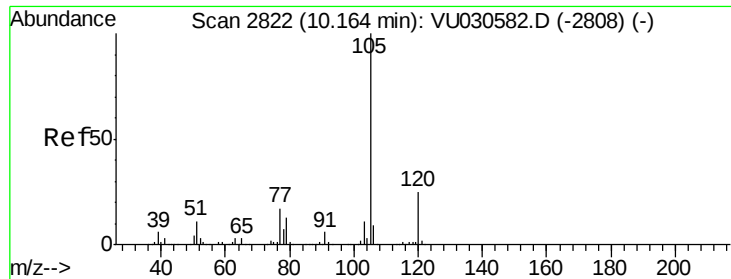
78 51.2 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 45.659 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

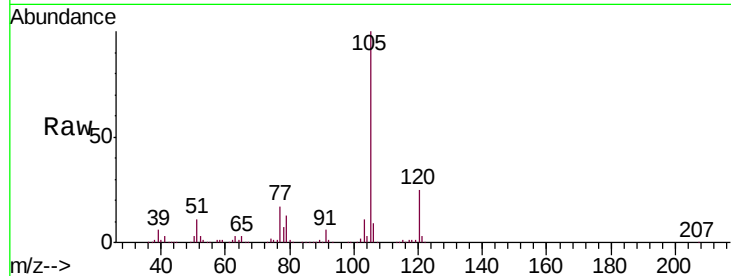
Tgt Ion: 105 Resp: 720220

Ion Ratio Lower Upper

105 100

120 25.0 20.2 30.2

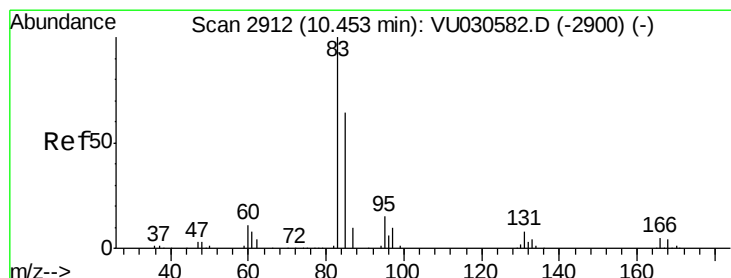
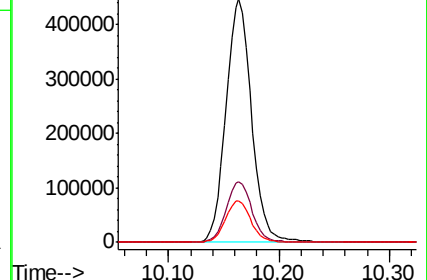
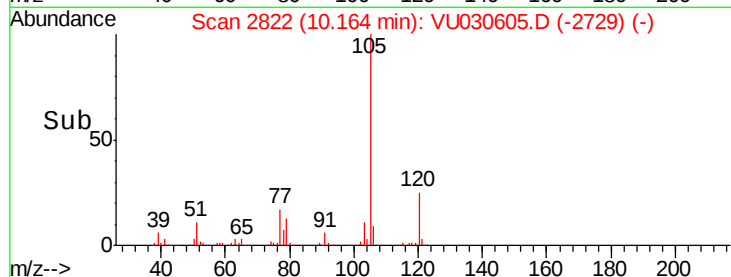
77 17.2 13.2 19.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.350 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

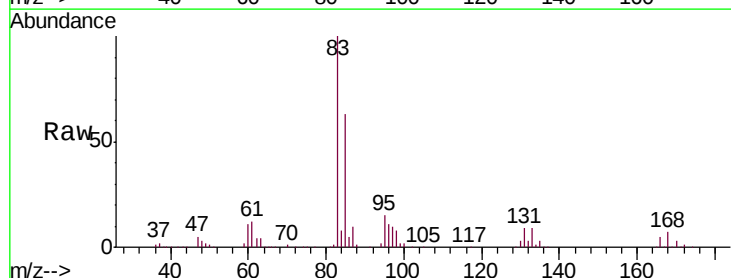
Tgt Ion: 83 Resp: 308074

Ion Ratio Lower Upper

83 100

85 62.7 44.3 82.3

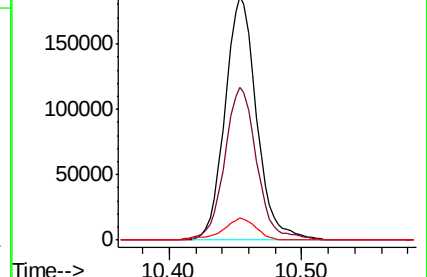
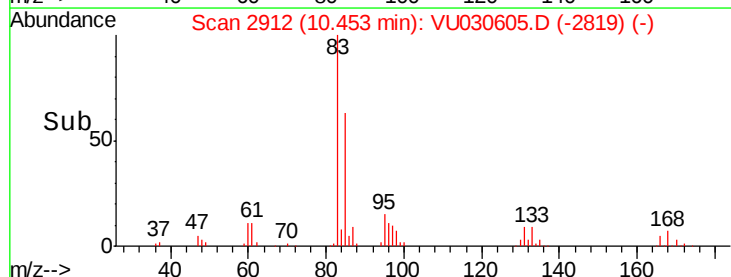
131 8.9 6.7 10.1

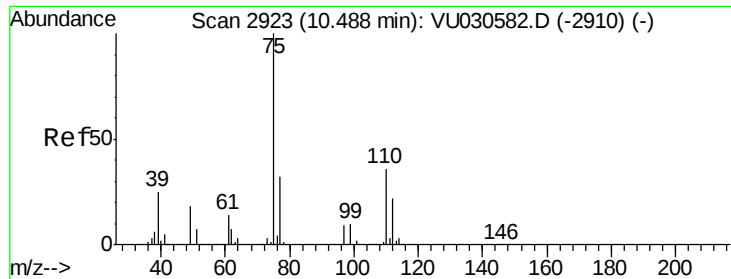


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

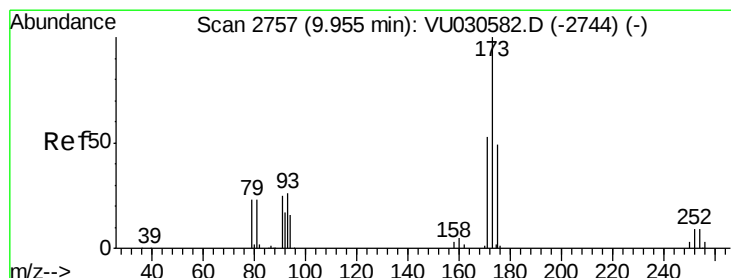
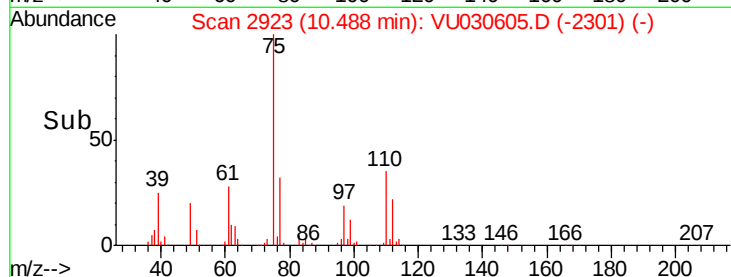
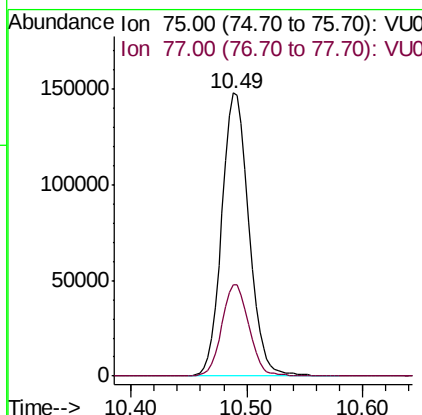
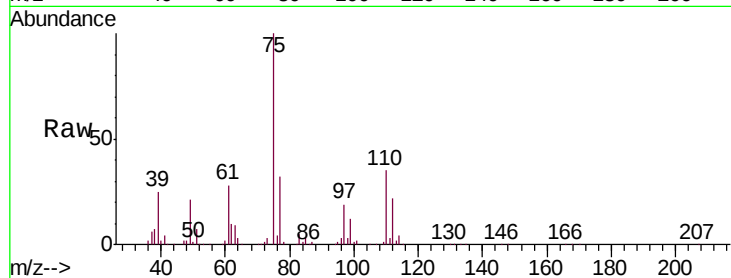




#59
 1,2,3-Trichloropropane
 Concen: 46.221 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

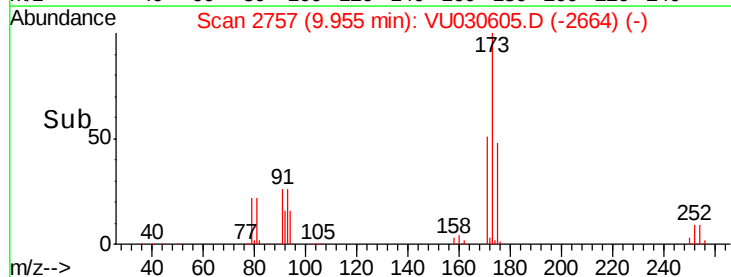
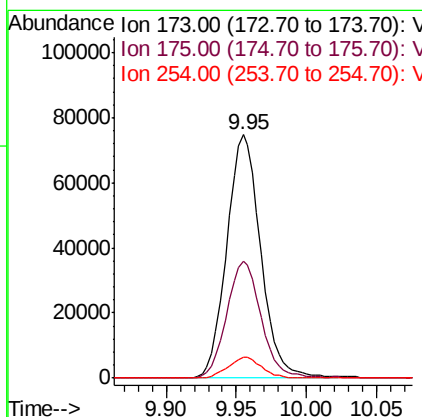
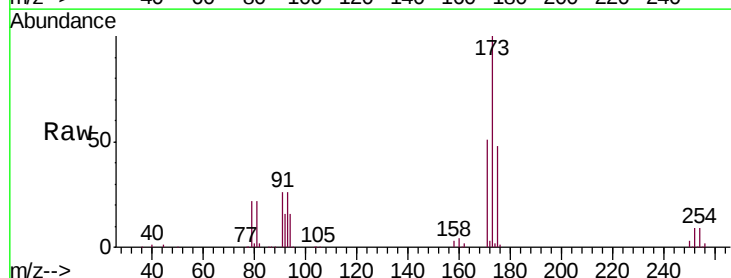
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

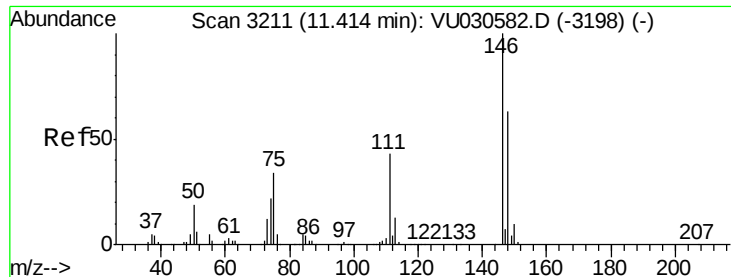
Tgt Ion: 75 Resp: 240130
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.4 38.2



#61
 Bromoform
 Concen: 45.591 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Tgt Ion: 173 Resp: 125934
 Ion Ratio Lower Upper
 173 100
 175 48.4 38.5 57.7
 254 8.4 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 43.641 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

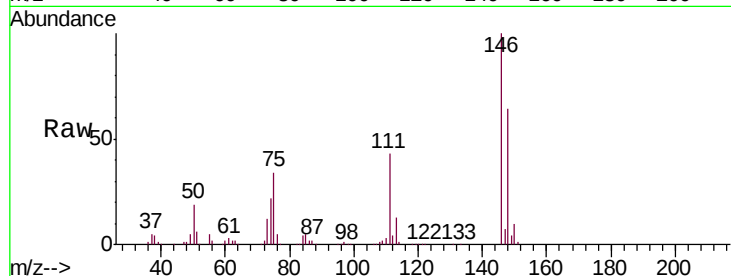
Tgt Ion:146 Resp: 296507

Ion Ratio Lower Upper

146 100

111 42.7 29.2 54.2

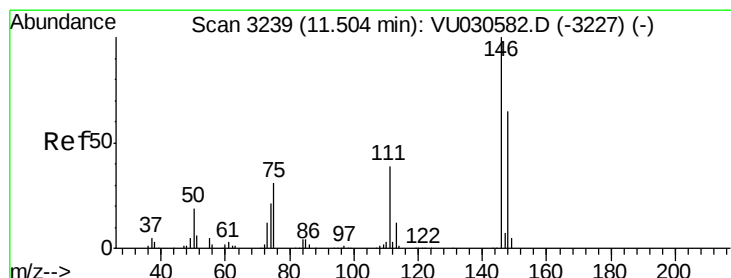
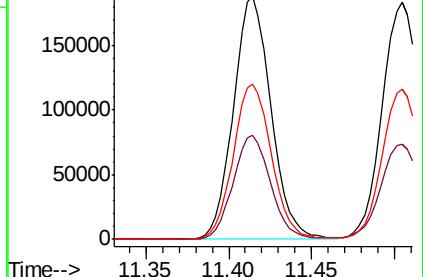
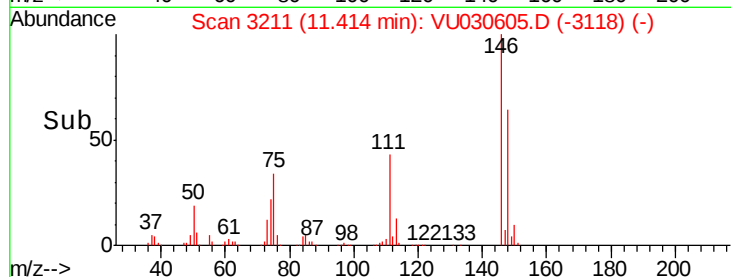
148 63.8 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 43.247 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

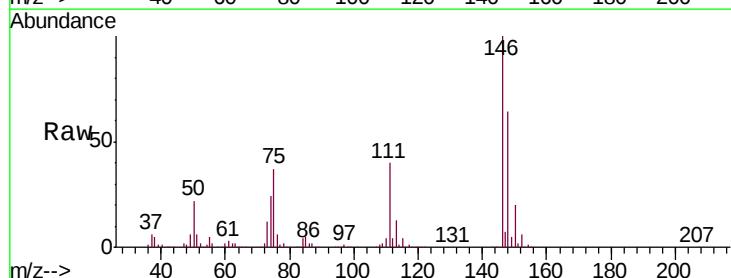
Tgt Ion:146 Resp: 302487

Ion Ratio Lower Upper

146 100

111 40.4 28.7 53.3

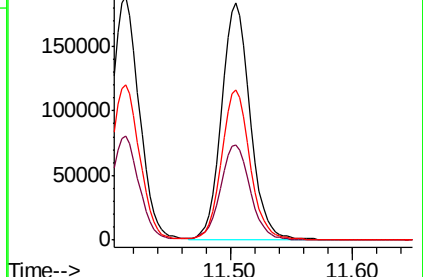
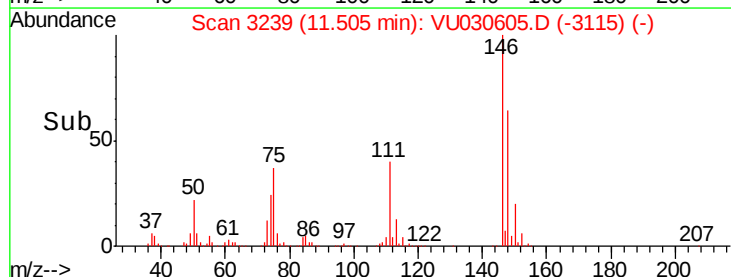
148 63.7 44.3 82.3

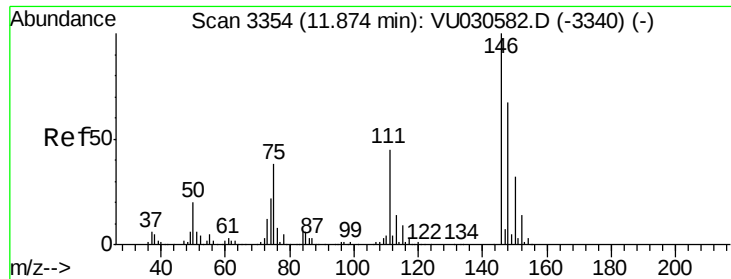


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

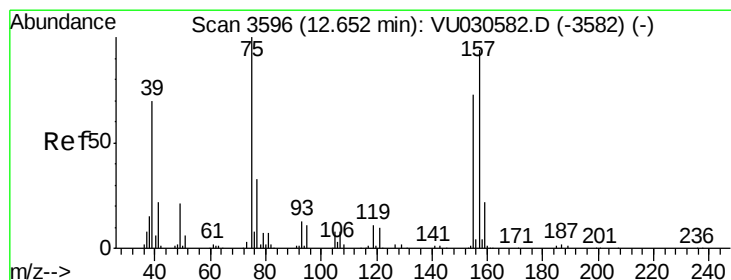
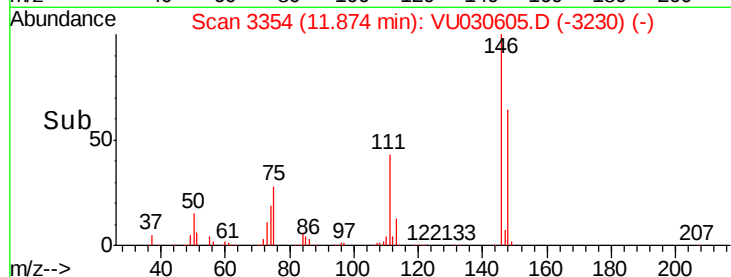
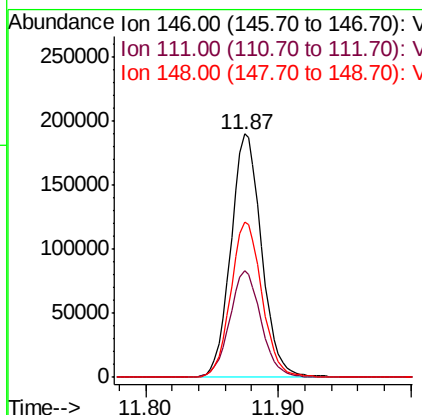
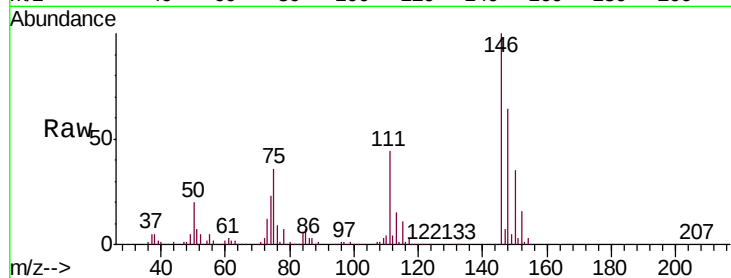




#65
 1,2-Dichlorobenzene
 Concen: 44.422 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

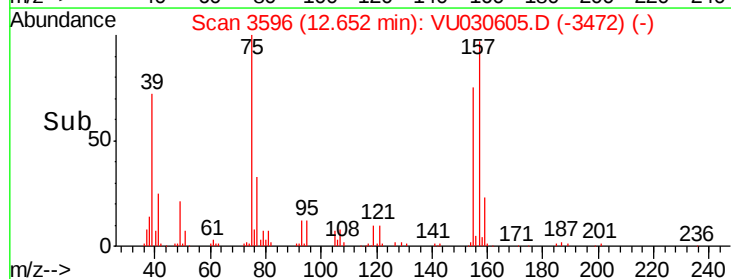
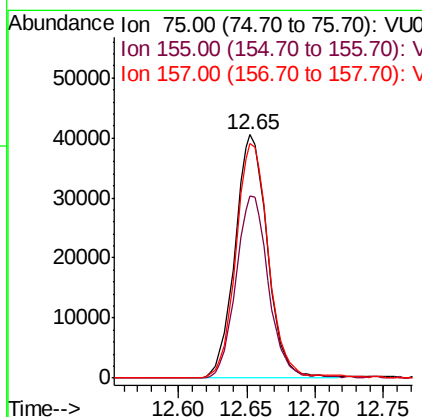
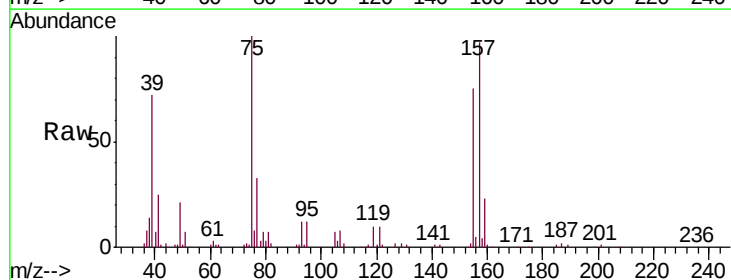
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

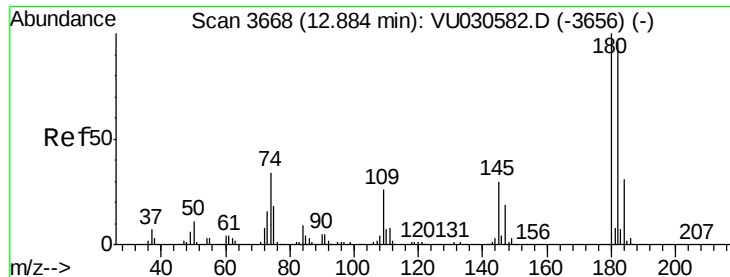
Tgt Ion: 146 Resp: 305177
 Ion Ratio Lower Upper
 146 100
 111 43.8 34.9 52.3
 148 63.7 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 43.744 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Tgt Ion: 75 Resp: 66916
 Ion Ratio Lower Upper
 75 100
 155 75.0 61.8 92.6
 157 96.6 80.2 120.4

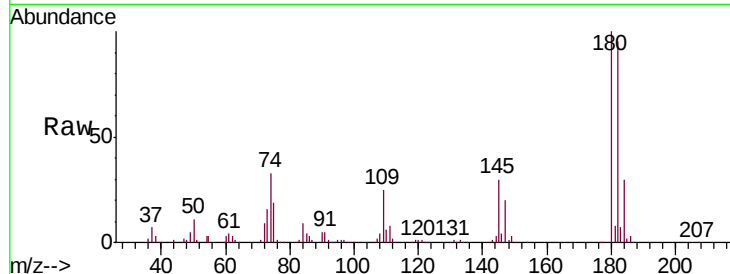




#67
 1,3,5-Trichlorobenzene
 Concen: 42.306 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	75.9	113.9
184	30.0	24.1	36.1
145	29.8	23.8	35.8



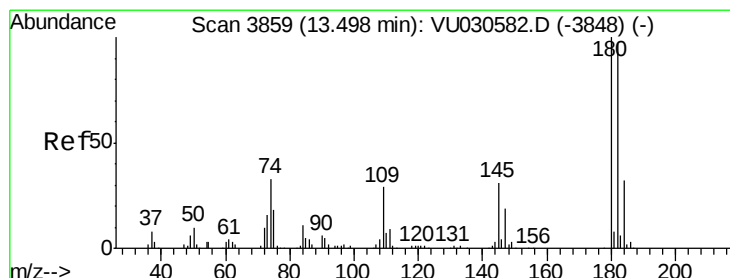
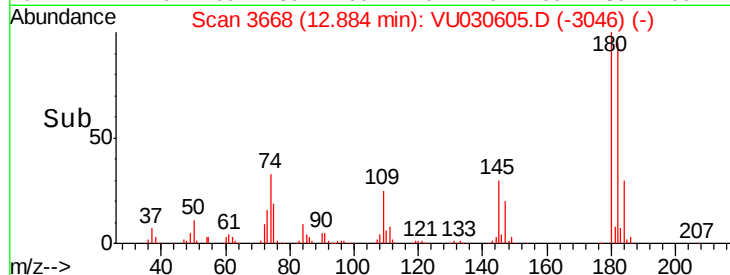
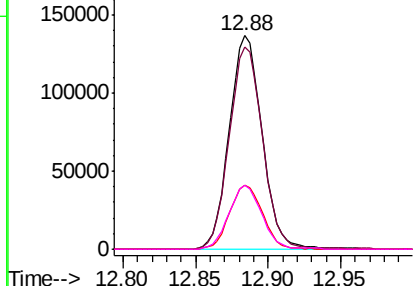
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

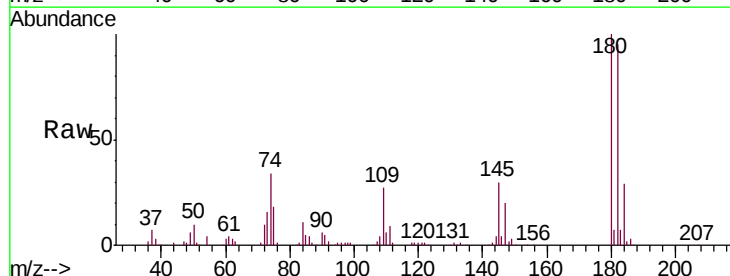
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 40.108 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU030605.D
 Acq: 31 Mar 2019 21:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.1	114.1
145	29.6	24.5	36.7

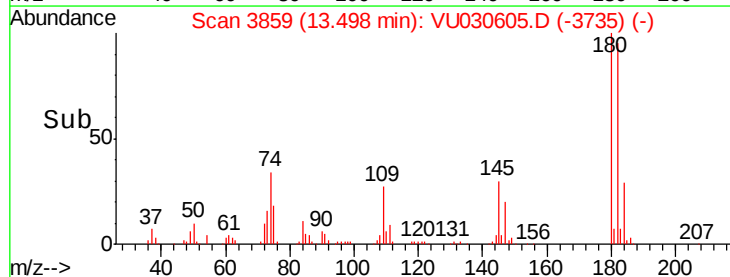
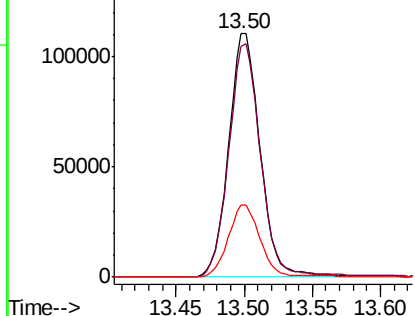


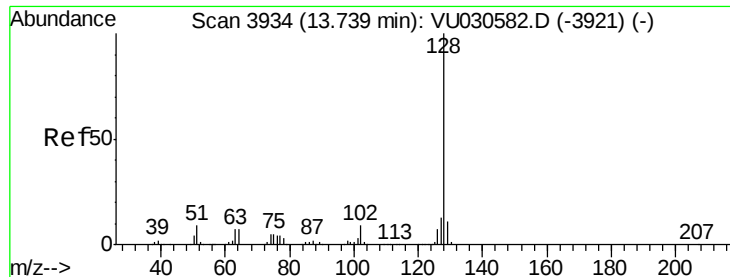
Abundance

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





#69

Naphthalene

Concen: 37.661 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

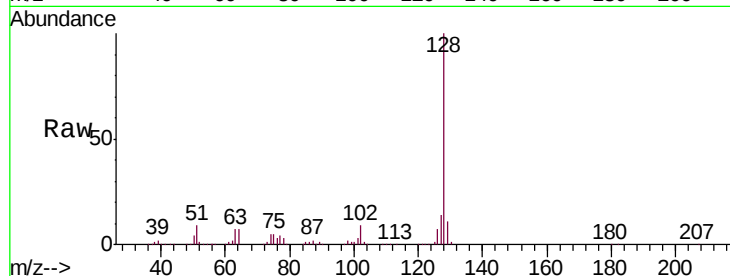
Tgt Ion:128 Resp: 591834

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

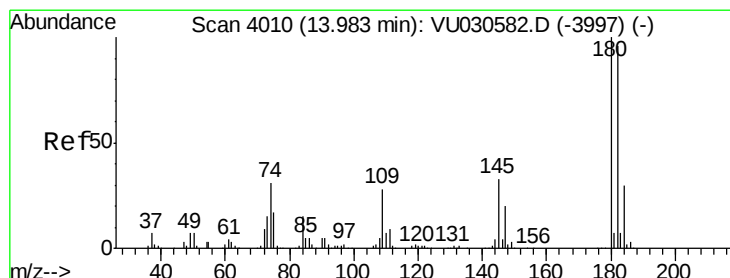
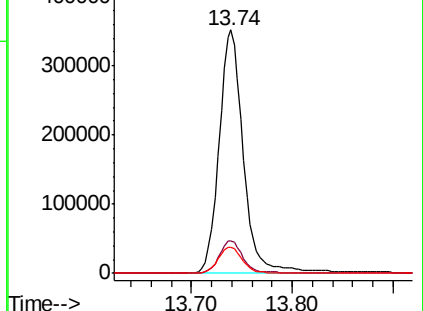
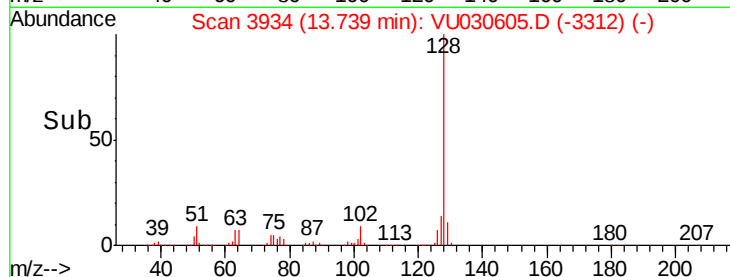
129 11.0 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 40.891 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030605.D

Acq: 31 Mar 2019 21:02

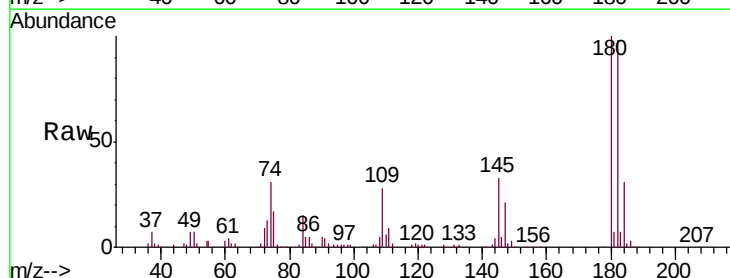
Tgt Ion:180 Resp: 190826

Ion Ratio Lower Upper

180 100

182 95.9 77.4 116.2

145 32.4 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

