

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031519\
 Data File : VU030015.D
 Acq On : 13 Mar 2019 08:54
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Quant Time: Mar 14 01:35:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Mar 12 08:53:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	512336	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	497173	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	260394	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	177607	52.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.82%
7) Chloroethane-d5	1.68	69	143604	52.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.98%
11) 1,1-Dichloroethene-d2	2.27	63	316214	51.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.40%
21) 2-Butanone-d5	4.17	46	256871	101.17	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.17%
24) Chloroform-d	4.64	84	319276	52.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.04%
26) 1,2-Dichloroethane-d4	5.31	65	183335	52.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.40%
32) Benzene-d6	5.34	84	674633	52.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.42%
36) 1,2-Dichloropropane-d6	6.32	67	204447	52.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.40%
41) Toluene-d8	7.56	98	636958	53.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.30%
43) trans-1,3-Dichloropropene-	7.85	79	99764	52.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.16%
47) 2-Hexanone-d5	8.31	63	225802	103.03	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.03%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	310940	51.66	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.32%
64) 1,2-Dichlorobenzene-d4	11.85	152	259587	51.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.92%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	164041	50.673	ug/L 100
3) Chloromethane	1.33	50	184158	51.564	ug/L 99
5) Vinyl chloride	1.40	62	196493	50.189	ug/L 99
6) Bromomethane	1.62	94	108479	44.729	ug/L 95
8) Chloroethane	1.70	64	120758	47.061	ug/L 96
9) Trichlorofluoromethane	1.88	101	268452	51.129	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	172987	51.394	ug/L 99
12) 1,1-Dichloroethene	2.28	96	160479	49.975	ug/L 97
13) Acetone	2.32	43	315618	106.316	ug/L 100
14) Carbon disulfide	2.48	76	504517	50.691	ug/L 100
15) Methyl Acetate	2.61	43	187704	48.939	ug/L 100
16) Methylene chloride	2.70	84	186405	49.160	ug/L 98
17) trans-1,2-Dichloroethene	2.98	96	173601	49.642	ug/L 97
18) Methyl tert-butyl Ether	3.00	73	518658	50.007	ug/L 100
19) 1,1-Dichloroethane	3.44	63	302847	50.439	ug/L 100
20) cis-1,2-Dichloroethene	4.22	96	197843	49.696	ug/L 100
22) 2-Butanone	4.26	43	352486	104.295	ug/L 99

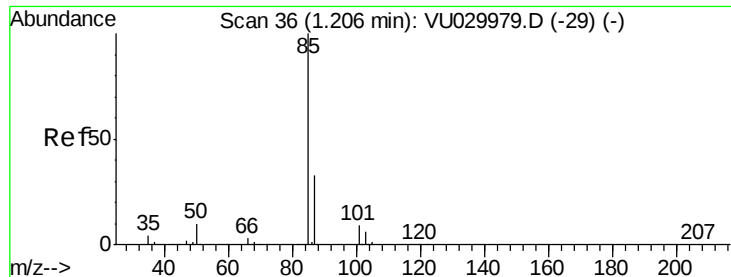
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031519\
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 Quant Title : VOC Analysis
 QLast Update : Tue Mar 12 08:53:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	102749	49.824	ug/L	96
25) Chloroform	4.67	83	320968	50.932	ug/L	98
27) 1,2-Dichloroethane	5.40	62	226232	49.933	ug/L	98
29) Cyclohexane	4.99	56	278452	50.780	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	275095	50.684	ug/L	98
31) Carbon tetrachloride	5.13	117	243995	50.910	ug/L	99
33) Benzene	5.39	78	720530	50.646	ug/L	100
34) Trichloroethene	6.18	95	188752	50.622	ug/L	99
35) Methylcyclohexane	6.41	83	320947	53.081	ug/L	99
37) 1,2-Dichloropropane	6.43	63	188099	50.264	ug/L	100
38) Bromodichloromethane	6.75	83	244170	52.470	ug/L	97
39) cis-1,3-Dichloropropene	7.26	75	296286	50.877	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	492144	97.400	ug/L	99
42) Toluene	7.63	91	793023	51.268	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	270384	50.851	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	188512	50.371	ug/L	98
46) Tetrachloroethene	8.22	164	167654	51.379	ug/L	98
48) 2-Hexanone	8.36	43	447890	103.903	ug/L	99
49) Dibromochloromethane	8.47	129	213904	51.157	ug/L	100
50) 1,2-Dibromoethane	8.58	107	206197	49.986	ug/L	99
51) Chlorobenzene	9.12	112	518490	49.719	ug/L	99
52) Ethylbenzene	9.24	91	862131	50.630	ug/L	99
53) m,p-Xylene	9.37	106	341880	51.893	ug/L	100
54) o-xylene	9.77	106	331065	51.161	ug/L	100
55) Styrene	9.79	104	570306	51.759	ug/L	98
56) Isopropylbenzene	10.16	105	866067	51.122	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	322051	50.138	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	239565	49.155	ug/L	99
61) Bromoform	9.95	173	170174	52.503	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	422802	50.278	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	429989	50.286	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	426519	50.389	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	69052	50.201	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	338716	51.894	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	306636	51.359	ug/L	99
69) Naphthalene	13.74	128	961115	49.547	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	314723	50.742	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.673 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

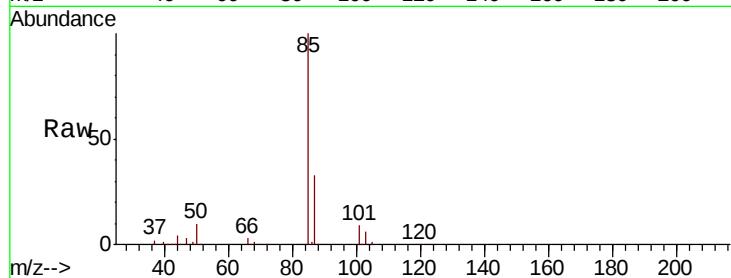
VSTD05032

Tgt Ion: 85 Resp: 164041

Ion Ratio Lower Upper

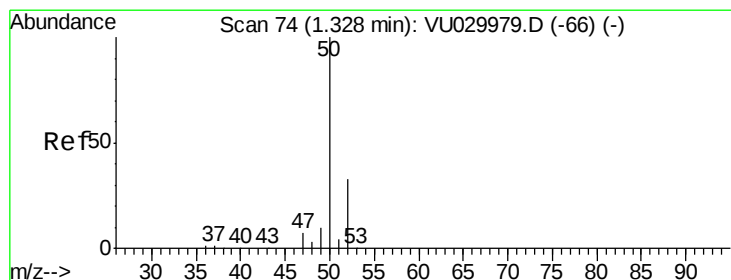
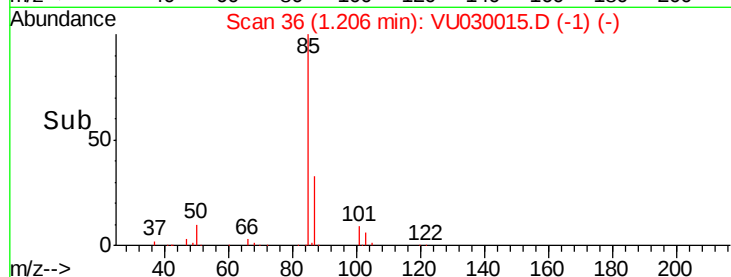
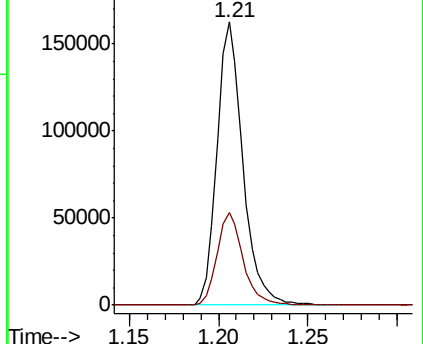
85 100

87 32.8 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU030015.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030015.D (-1) (-)



#3

Chloromethane

Concen: 51.564 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030015.D

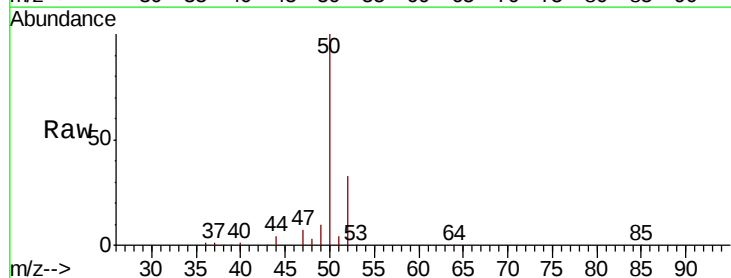
Acq: 13 Mar 2019 08:54

Tgt Ion: 50 Resp: 184158

Ion Ratio Lower Upper

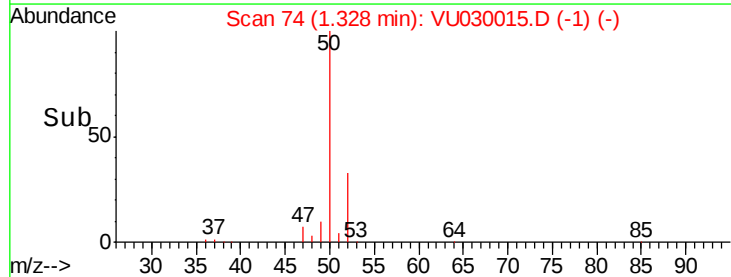
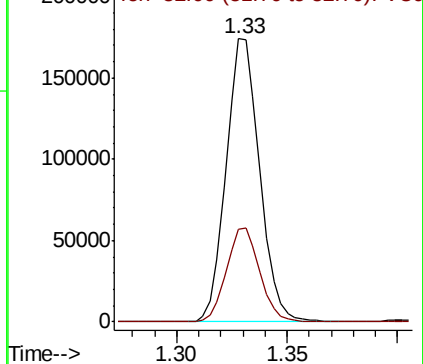
50 100

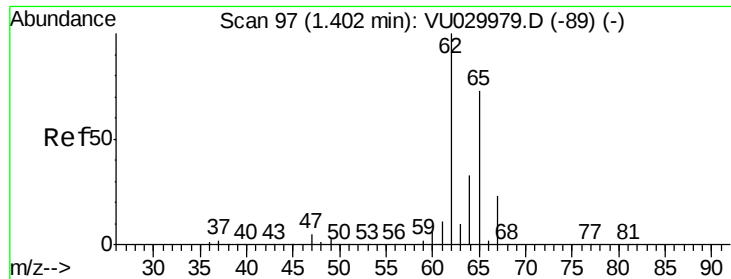
52 32.8 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030015.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU030015.D (-1) (-)





#5

Vinyl chloride

Concen: 50.189 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

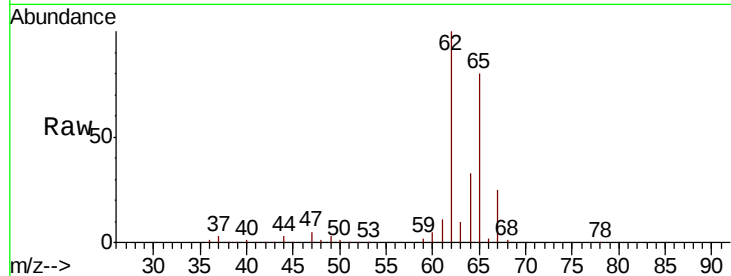
VSTD05032

Tgt Ion: 62 Resp: 196493

Ion Ratio Lower Upper

62 100

64 33.3 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

200000

150000

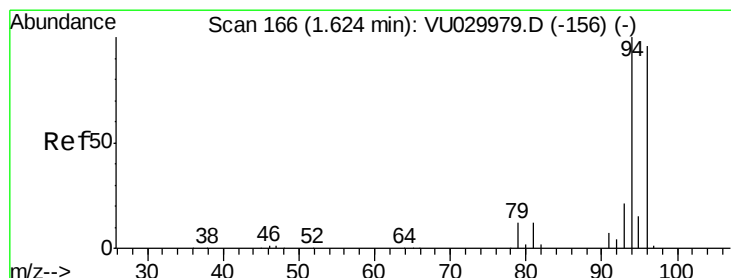
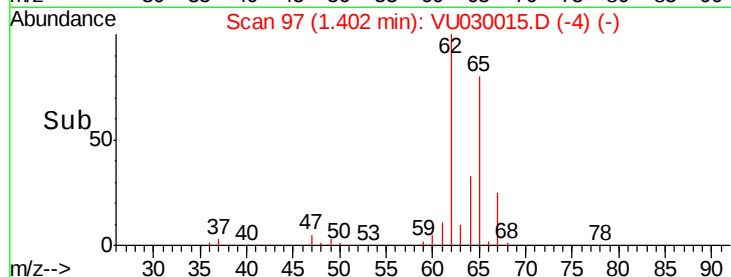
100000

50000

0

Time-->

1.35 1.40 1.45 1.50



#6

Bromomethane

Concen: 44.729 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU030015.D

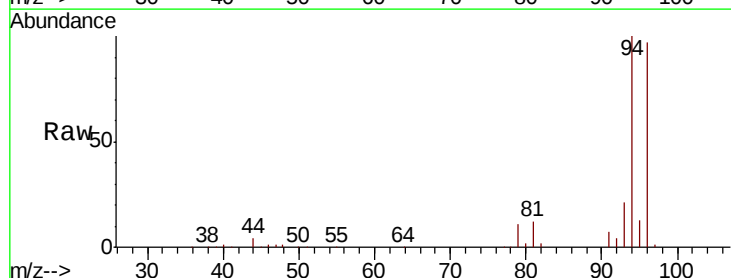
Acq: 13 Mar 2019 08:54

Tgt Ion: 94 Resp: 108479

Ion Ratio Lower Upper

94 100

96 97.3 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

80000

60000

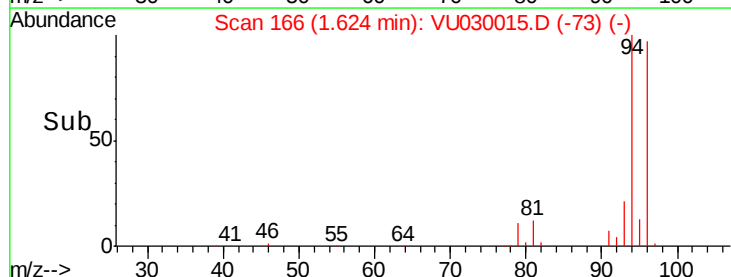
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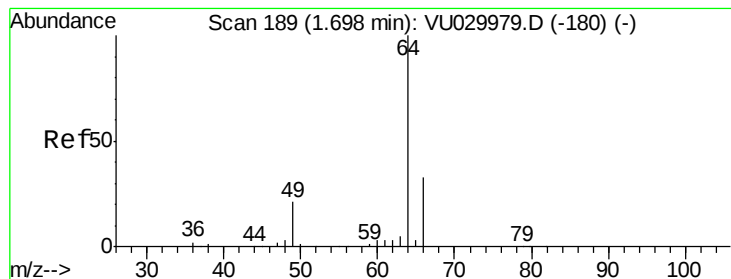
20000

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Time-->

1.55 1.60 1.65 1.70





#8

Chloroethane

Concen: 47.061 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

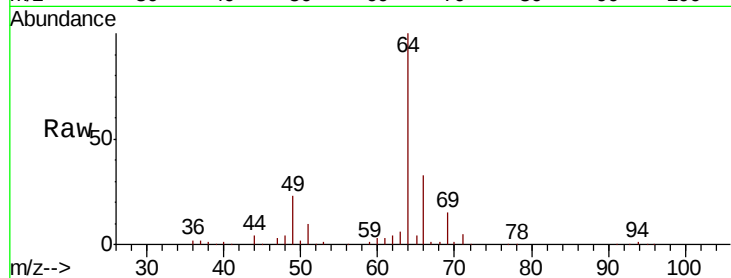
VSTD05032

Tgt Ion: 64 Resp: 120758

Ion Ratio Lower Upper

64 100

66 32.9 21.3 39.6



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

1.70

80000

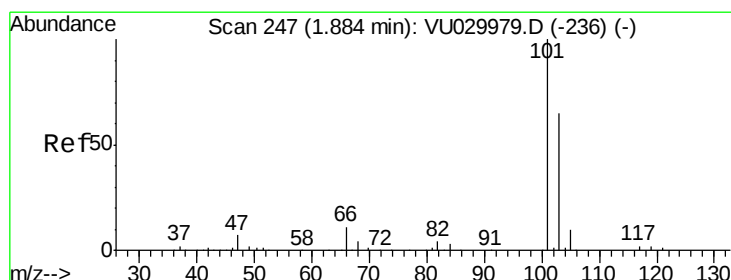
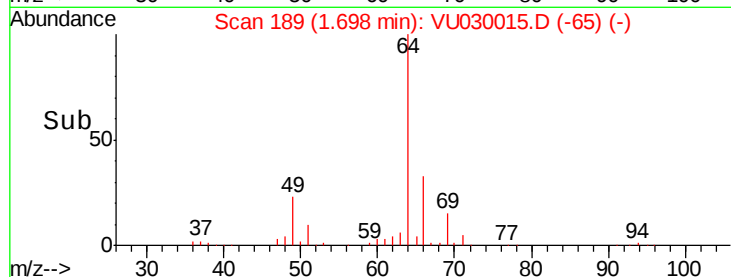
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 51.129 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU030015.D

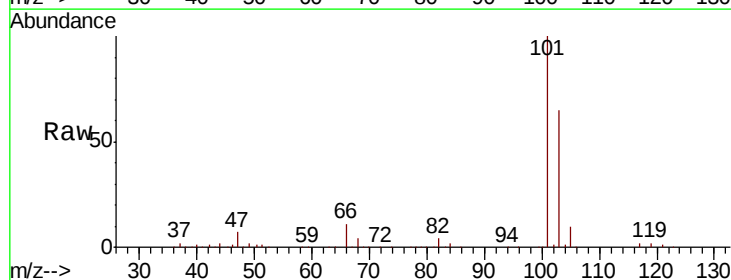
Acq: 13 Mar 2019 08:54

Tgt Ion: 101 Resp: 268452

Ion Ratio Lower Upper

101 100

103 64.9 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.88

200000

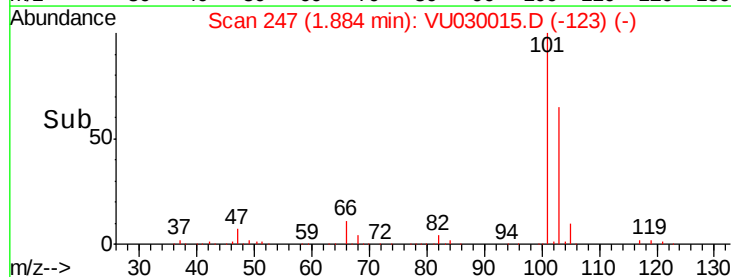
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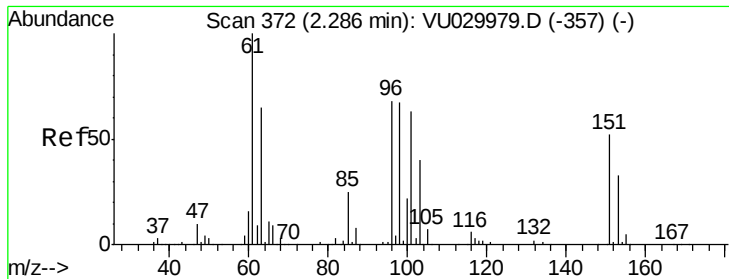
100000

50000

0

Time-->





#10

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

Concen: 51.394 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

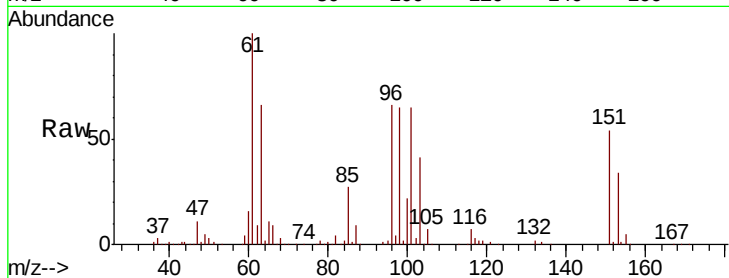
Tgt Ion: 101 Resp: 172987

Ion Ratio Lower Upper

101 100

85 41.1 33.0 49.4

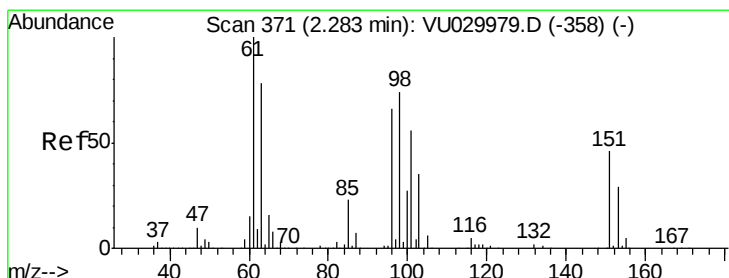
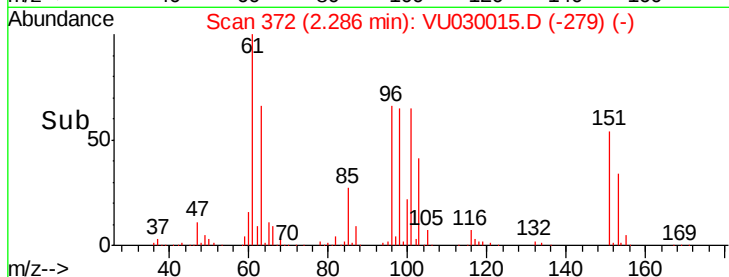
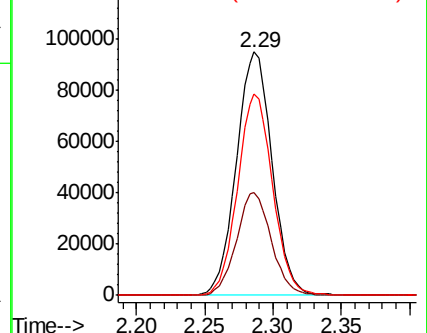
151 81.1 66.1 99.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.975 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

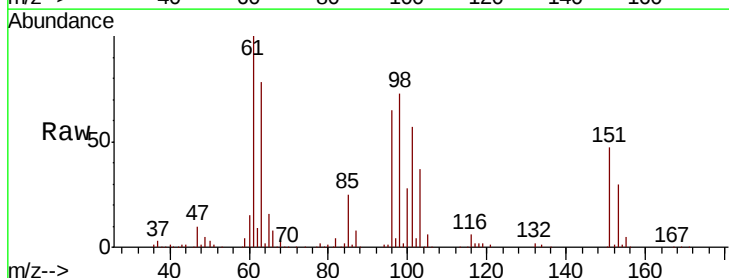
Tgt Ion: 96 Resp: 160479

Ion Ratio Lower Upper

96 100

61 154.4 110.4 205.0

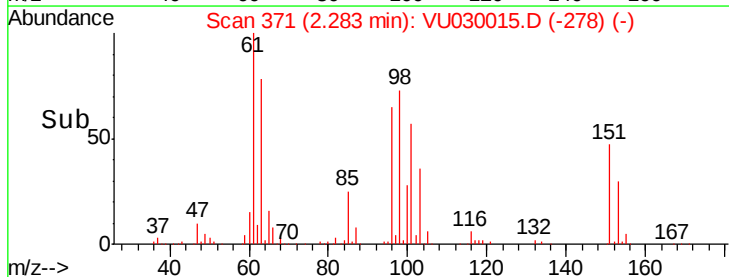
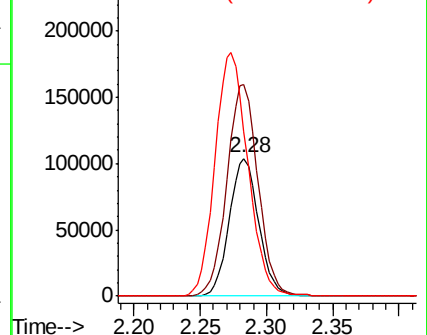
63 119.7 86.5 160.7

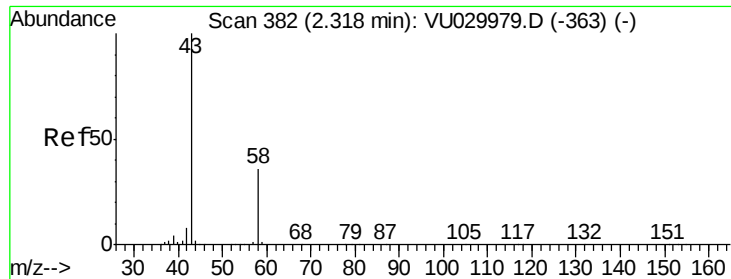


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 106.316 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

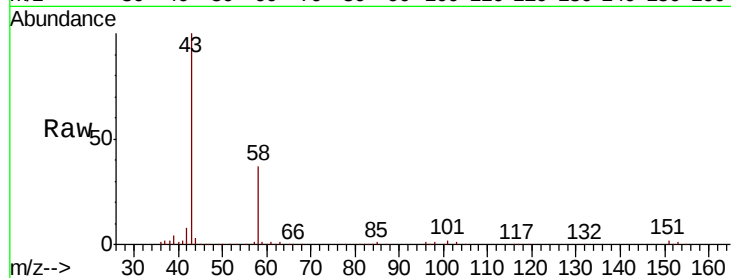
VSTD05032

Tgt Ion: 43 Resp: 315618

Ion Ratio Lower Upper

43 100

58 36.4 0.0 73.0



Abundance Ion 43.00 (42.70 to 43.70): VU030015.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU030015.D (-363) (-)

200000

150000

100000

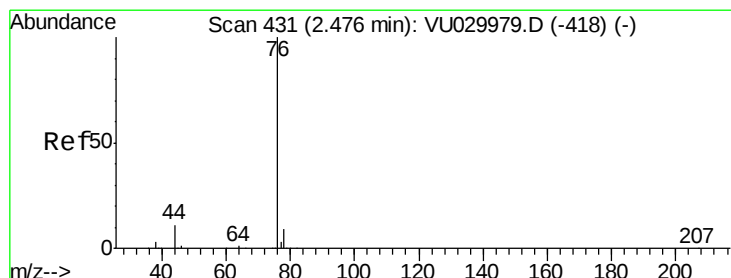
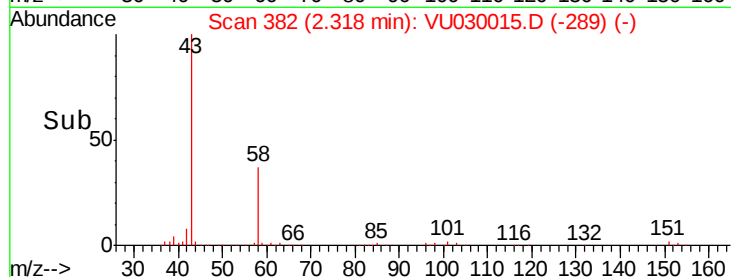
50000

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2.32

2.20 2.25 2.30 2.35 2.40

Time-->



#14

Carbon disulfide

Concen: 50.691 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU030015.D

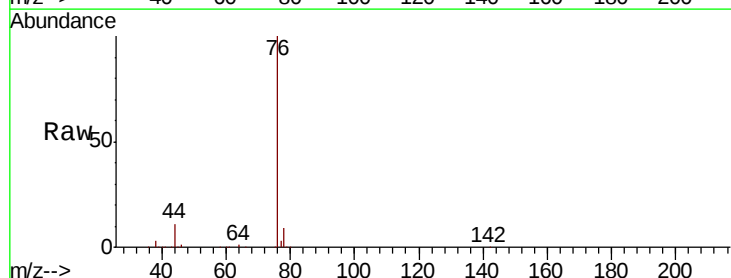
Acq: 13 Mar 2019 08:54

Tgt Ion: 76 Resp: 504517

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030015.D (-338) (-)

Ion 78.00 (77.70 to 78.70): VU030015.D (-338) (-)

300000

200000

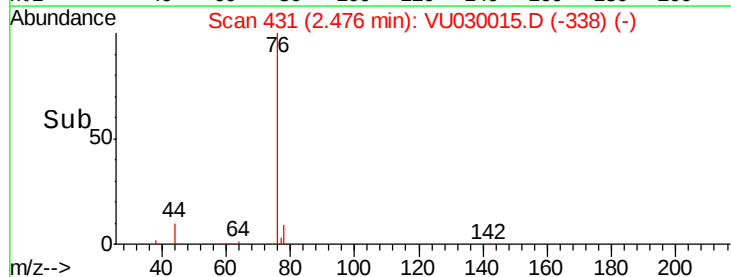
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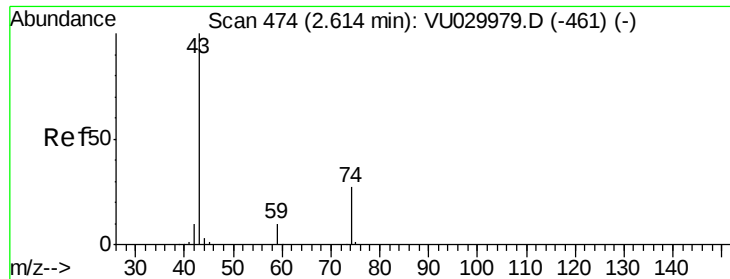
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2.48

2.40 2.45 2.50 2.55 2.60

Time-->

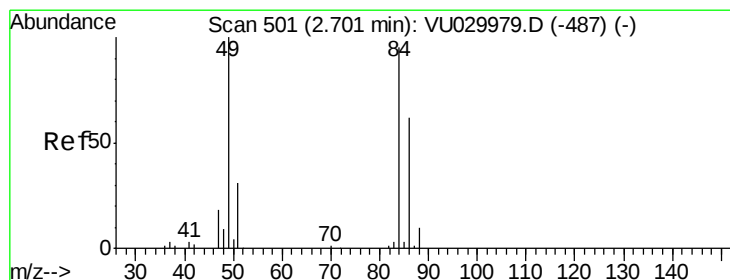
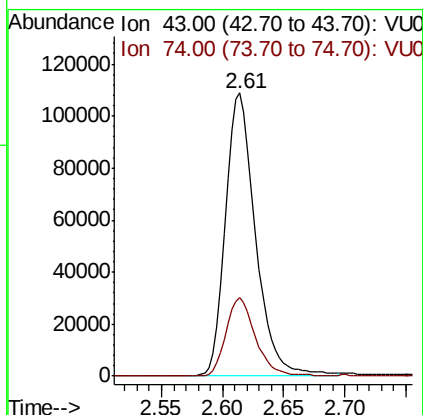
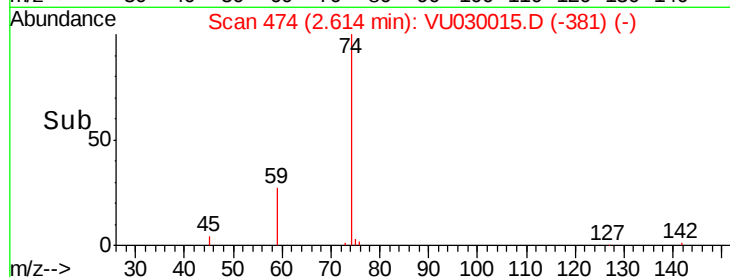
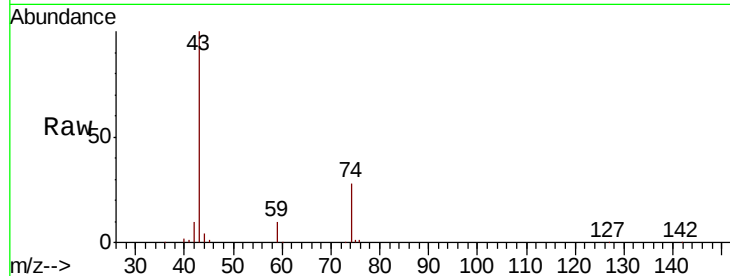




#15
Methyl Acetate
Concen: 48.939 ug/L
RT: 2.61 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

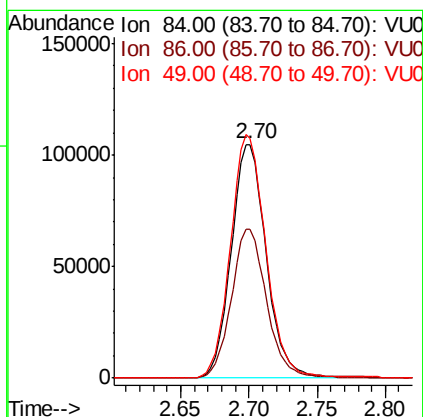
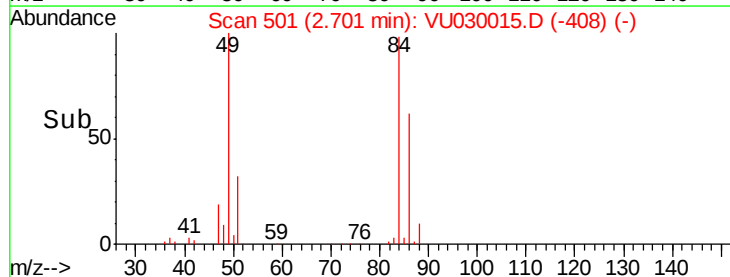
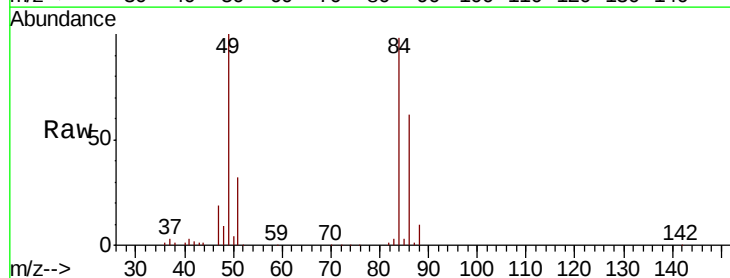
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

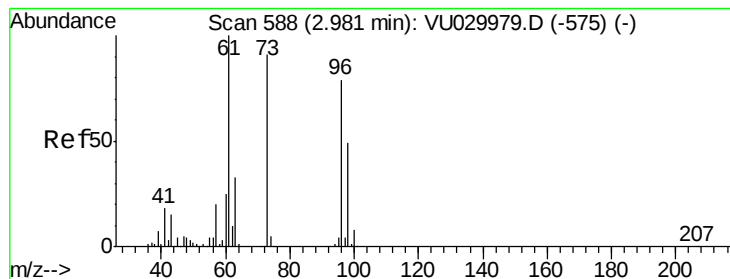
Tgt Ion: 43 Resp: 187704
Ion Ratio Lower Upper
43 100
74 27.4 21.9 32.9



#16
Methylene chloride
Concen: 49.160 ug/L
RT: 2.70 min Scan# 501
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

Tgt Ion: 84 Resp: 186405
Ion Ratio Lower Upper
84 100
86 63.6 45.2 84.0
49 102.5 73.6 136.6





#17

trans-1,2-Dichloroethene

Concen: 49.642 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

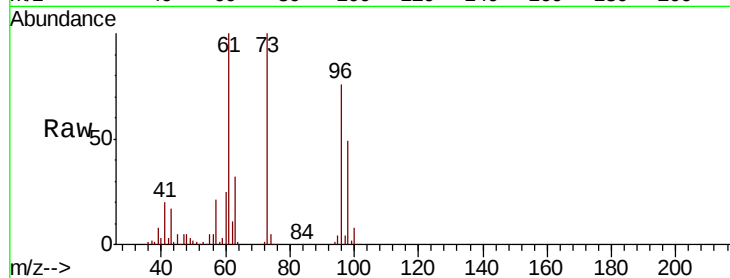
Tgt Ion: 96 Resp: 173601

Ion Ratio Lower Upper

96 100

61 131.0 89.4 166.0

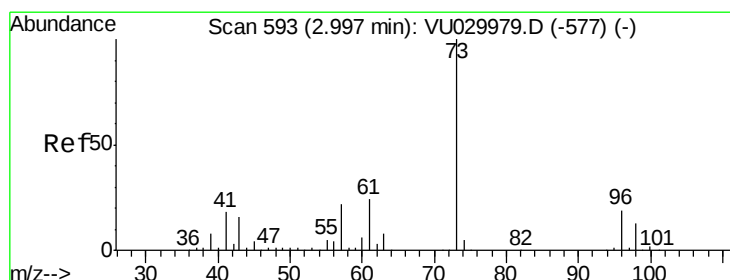
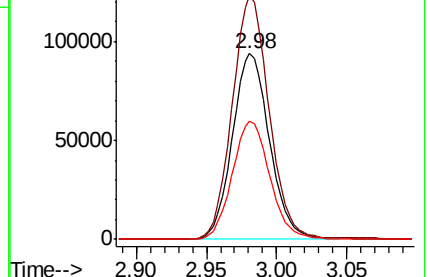
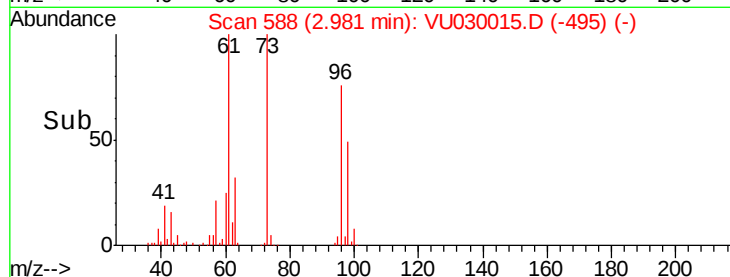
98 63.7 43.3 80.5



Abundance Ion 96.00 (95.70 to 96.70): VU030015.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU030015.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU030015.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 50.007 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

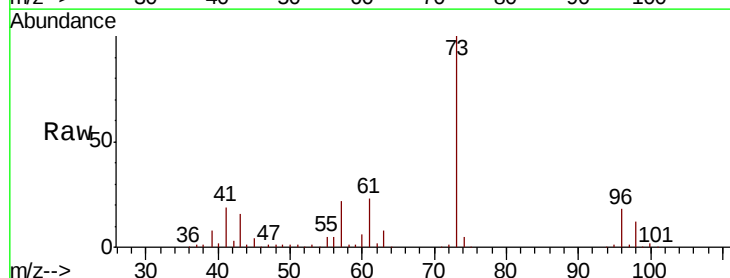
Tgt Ion: 73 Resp: 518658

Ion Ratio Lower Upper

73 100

43 16.5 13.1 19.7

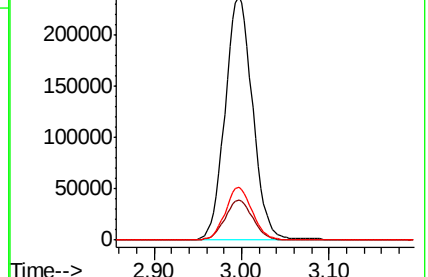
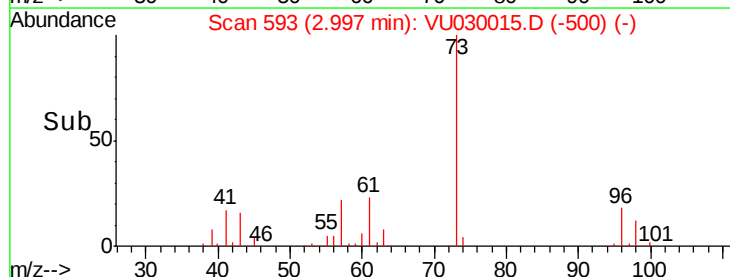
57 21.3 17.1 25.7

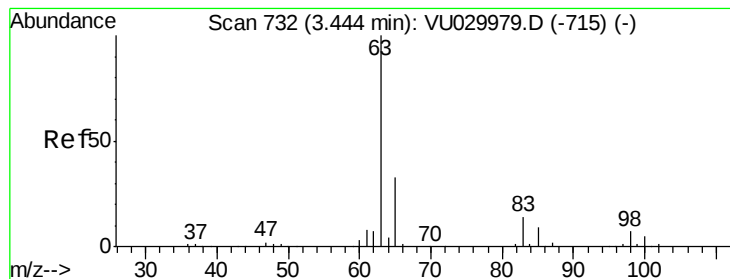


Abundance Ion 73.00 (72.70 to 73.70): VU030015.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU030015.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU030015.D (-500) (-)





#19

1,1-Dichloroethane

Concen: 50.439 ug/L

RT: 3.44 min Scan# 732

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

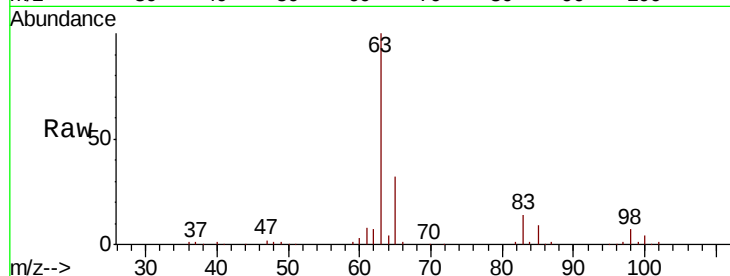
Tgt Ion: 63 Resp: 302847

Ion Ratio Lower Upper

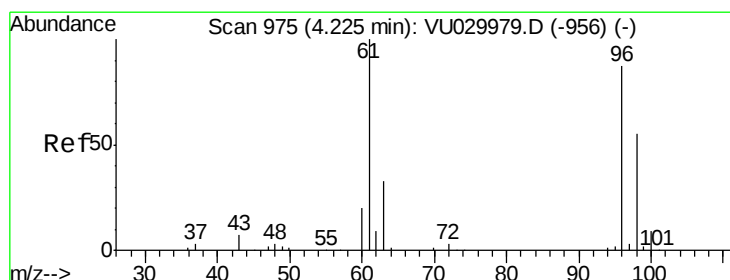
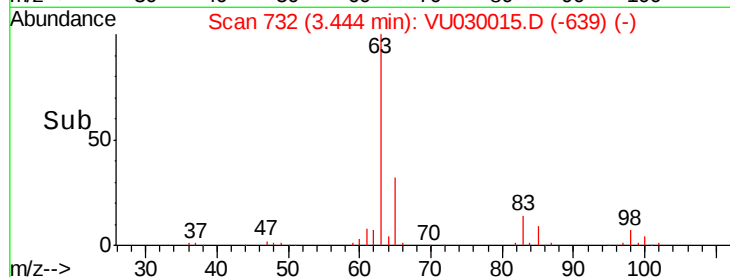
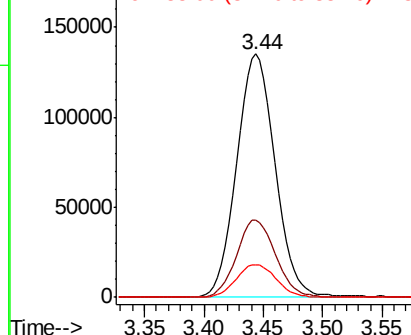
63 100

65 31.7 22.0 41.0

83 13.6 9.7 18.1



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



#20

cis-1,2-Dichloroethene

Concen: 49.696 ug/L

RT: 4.22 min Scan# 974

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

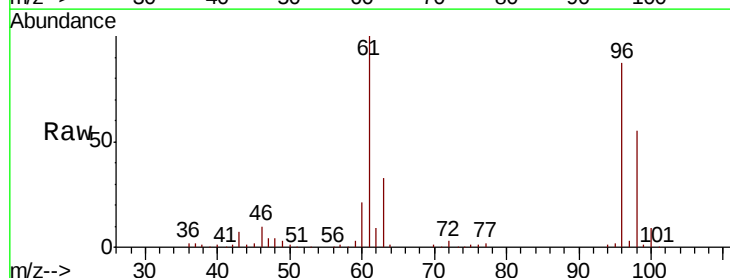
Tgt Ion: 96 Resp: 197843

Ion Ratio Lower Upper

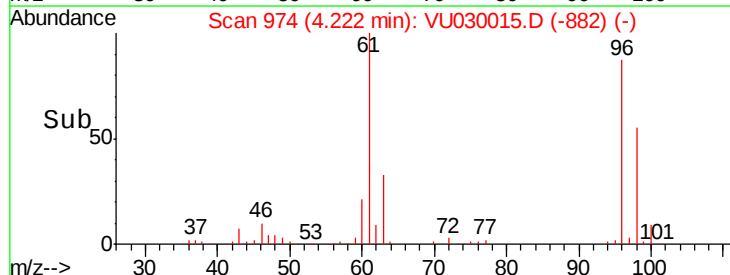
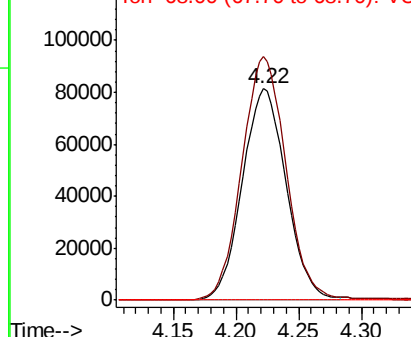
96 100

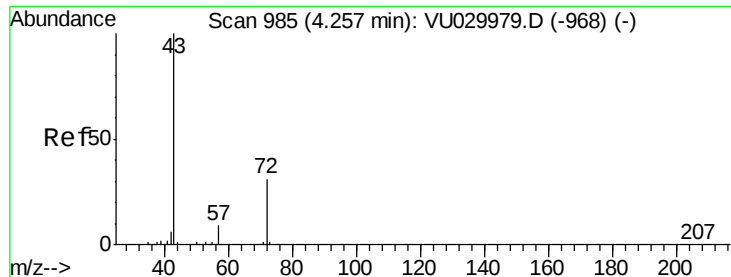
61 115.3 80.8 150.2

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: 104.295 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

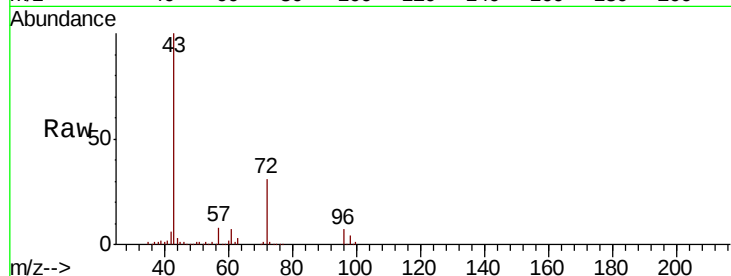
VSTD05032

Tgt Ion: 43 Resp: 352486

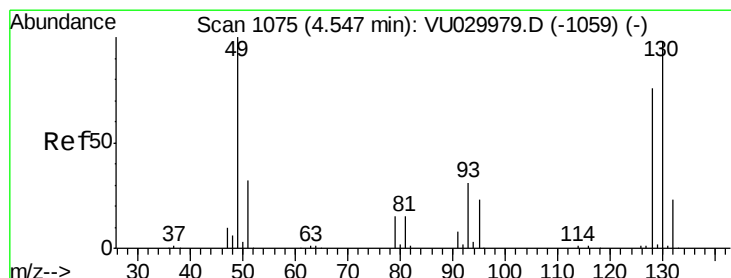
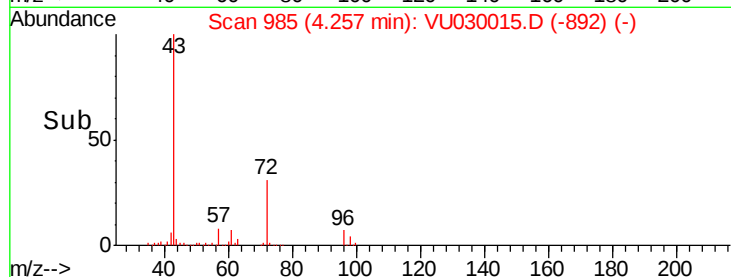
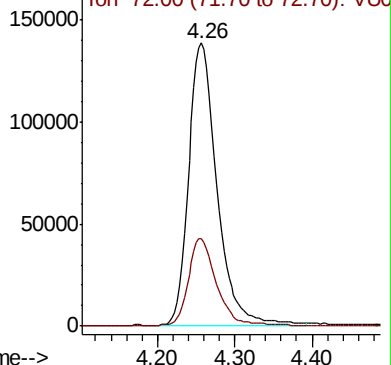
Ion Ratio Lower Upper

43 100

72 31.0 15.3 45.9



Abundance Ion 43.00 (42.70 to 43.70): VU030015.D (-892) (-)



#23

Bromochloromethane

Concen: 49.824 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Tgt Ion: 128 Resp: 102749

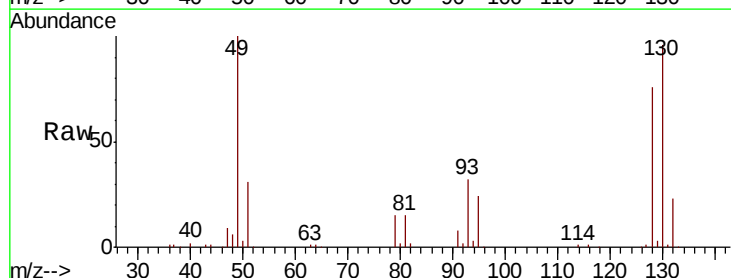
Ion Ratio Lower Upper

128 100

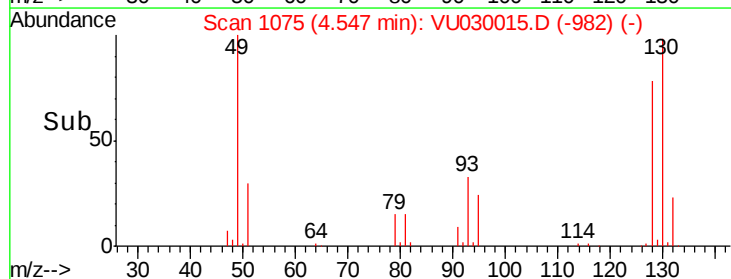
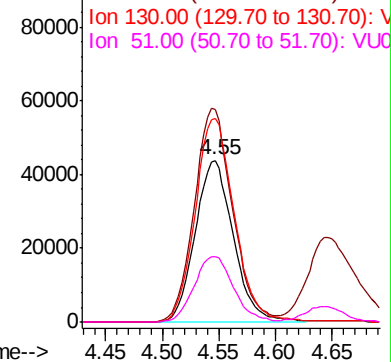
49 131.2 94.5 175.5

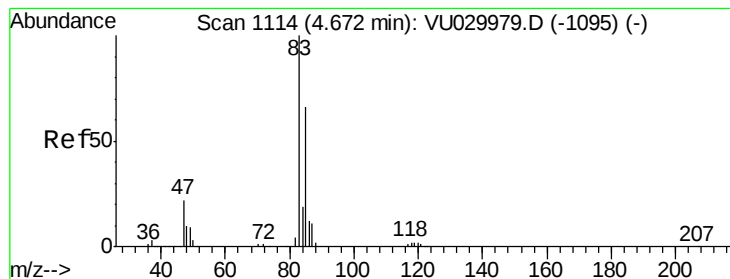
130 125.9 91.4 169.8

51 40.6 34.2 51.2



Abundance Ion 128.00 (127.70 to 128.70): VU030015.D (-982) (-)





#25

Chloroform

Concen: 50.932 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

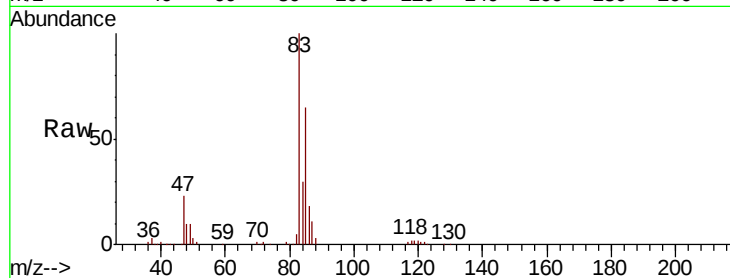
VSTD05032

Tgt Ion: 83 Resp: 320968

Ion Ratio Lower Upper

83 100

85 65.5 44.9 83.5



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

4.67

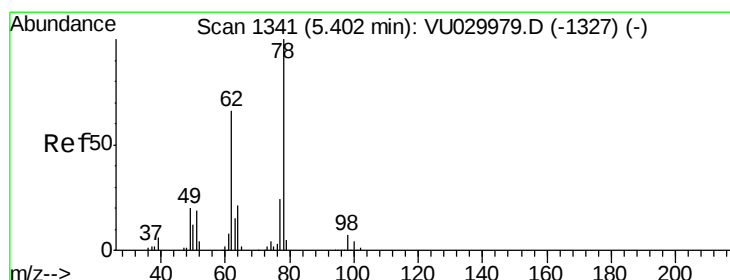
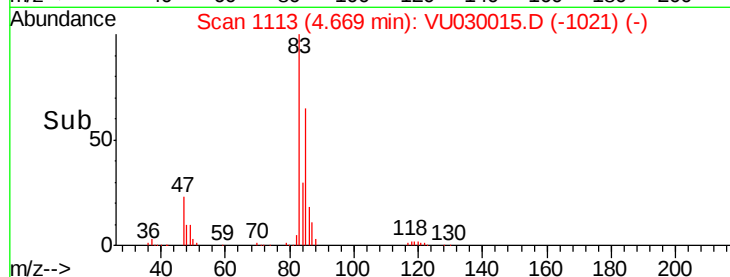
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 49.933 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU030015.D

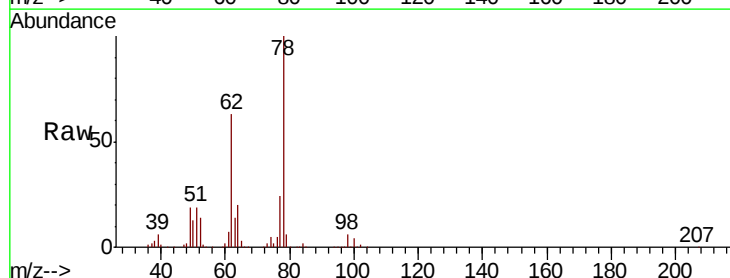
Acq: 13 Mar 2019 08:54

Tgt Ion: 62 Resp: 226232

Ion Ratio Lower Upper

62 100

98 10.3 8.8 13.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.40

120000

100000

80000

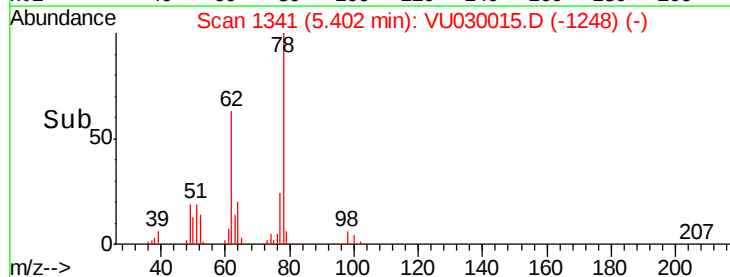
60000

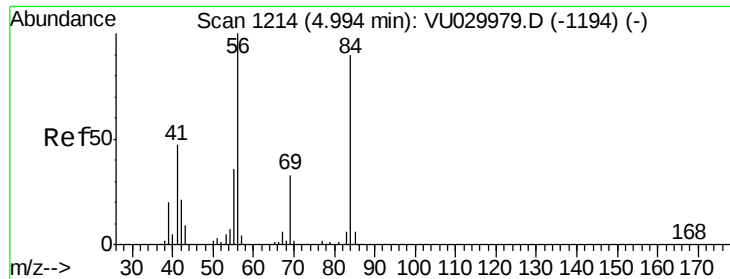
40000

20000

0

Time-->

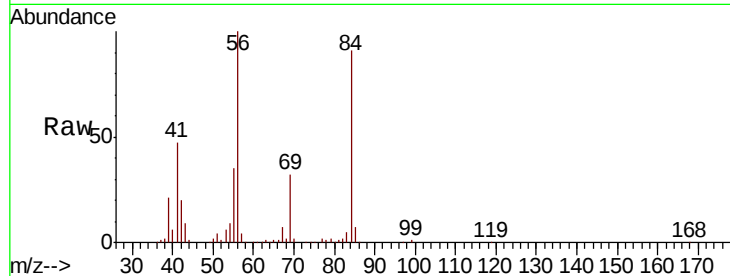




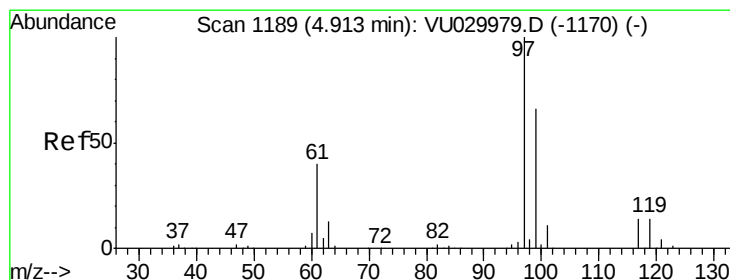
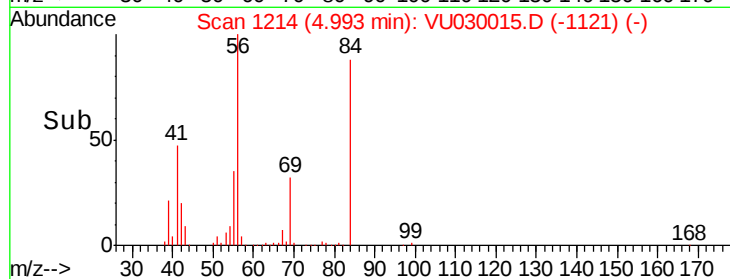
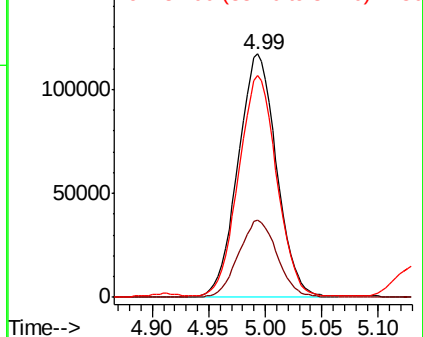
#29
Cyclohexane
Concen: 50.780 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

Tgt Ion: 56 Resp: 278452
Ion Ratio Lower Upper
56 100
69 31.8 25.3 37.9
84 91.0 73.5 110.3

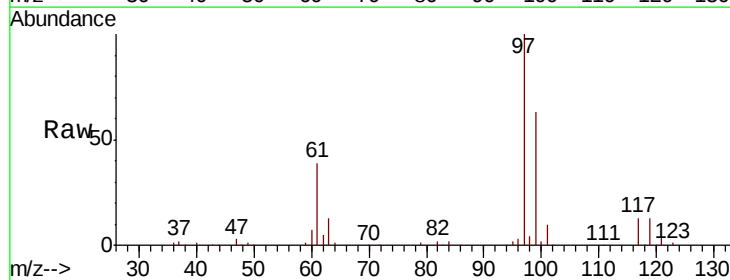


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

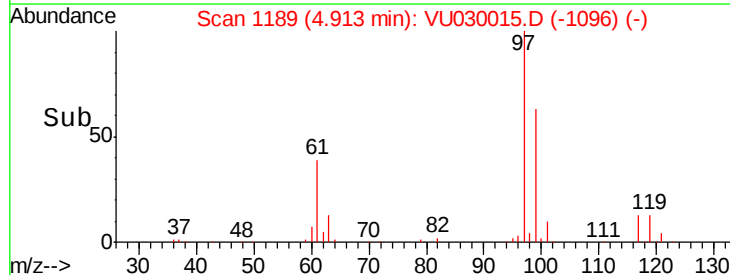
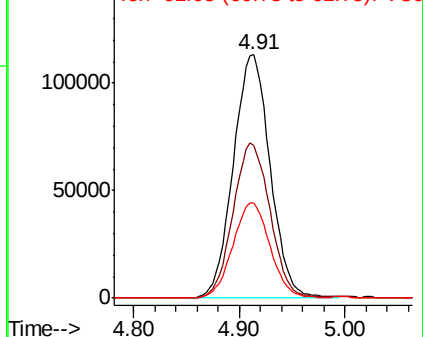


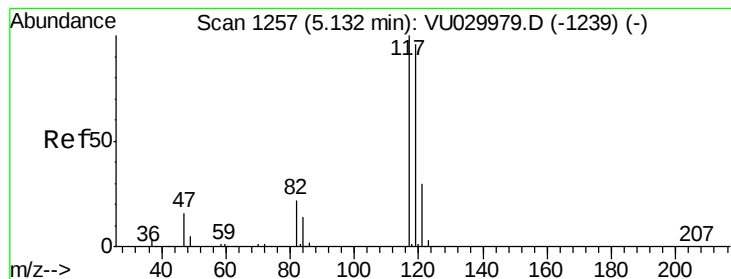
#30
1,1,1-Trichloroethane
Concen: 50.684 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

Tgt Ion: 97 Resp: 275095
Ion Ratio Lower Upper
97 100
99 63.7 52.2 78.2
61 39.6 32.2 48.4



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 50.910 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

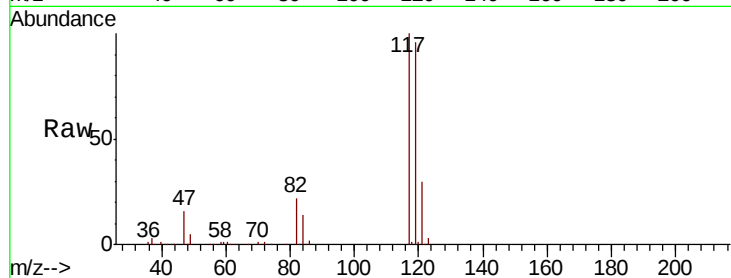
VSTD05032

Tgt Ion:117 Resp: 243995

Ion Ratio Lower Upper

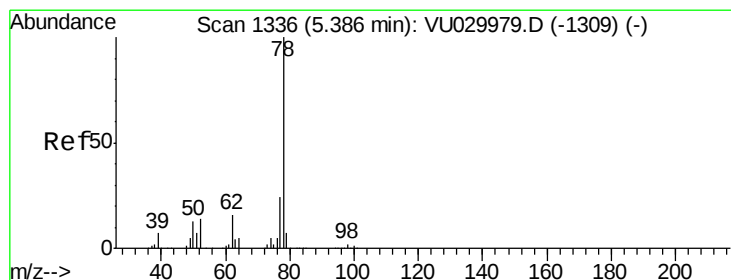
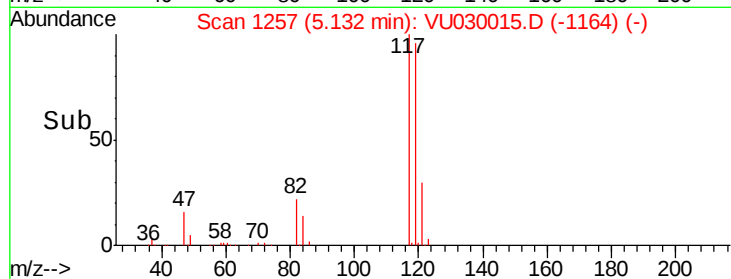
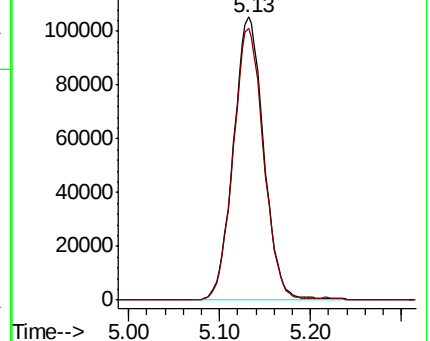
117 100

119 96.0 77.3 115.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.646 ug/L

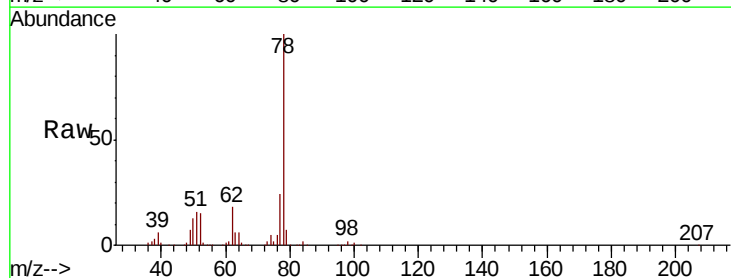
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

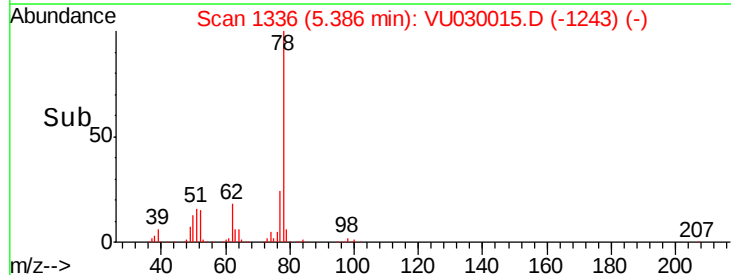
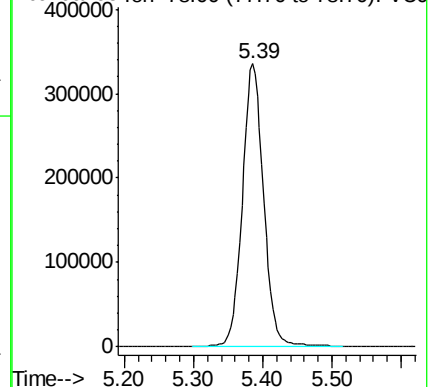
Lab File: VU030015.D

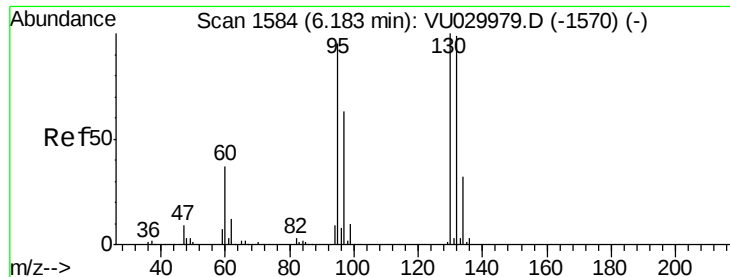
Acq: 13 Mar 2019 08:54

Tgt Ion: 78 Resp: 720530



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.622 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

Tgt Ion: 95 Resp: 188752

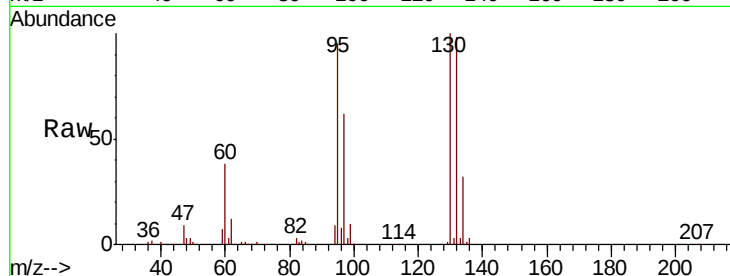
Ion Ratio Lower Upper

95 100

97 65.5 45.5 84.5

132 103.2 71.5 132.7

130 105.5 73.5 136.5

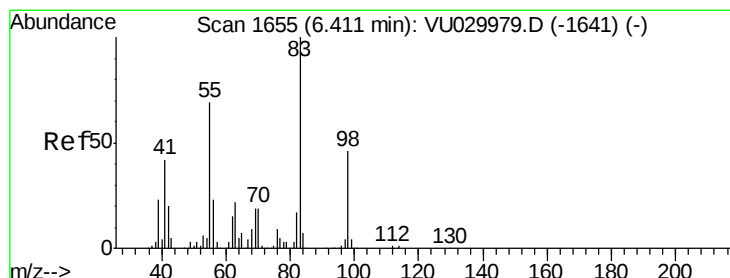
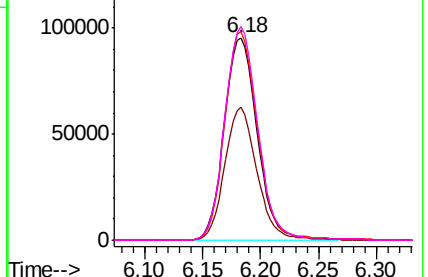
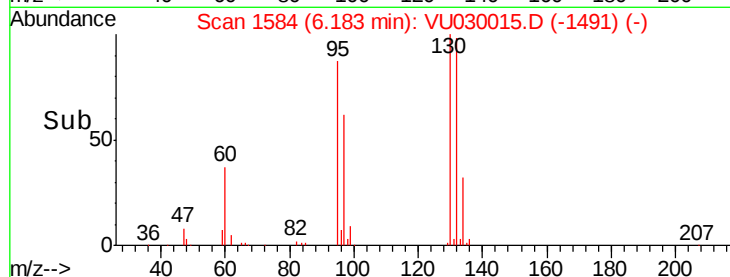


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 53.081 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

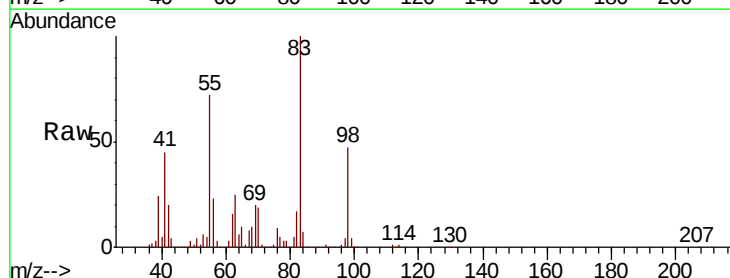
Tgt Ion: 83 Resp: 320947

Ion Ratio Lower Upper

83 100

55 70.5 56.6 84.8

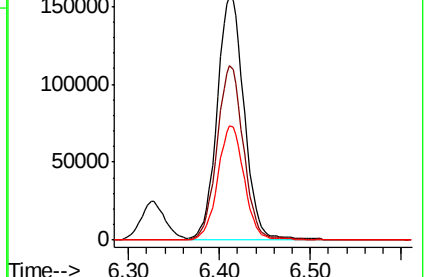
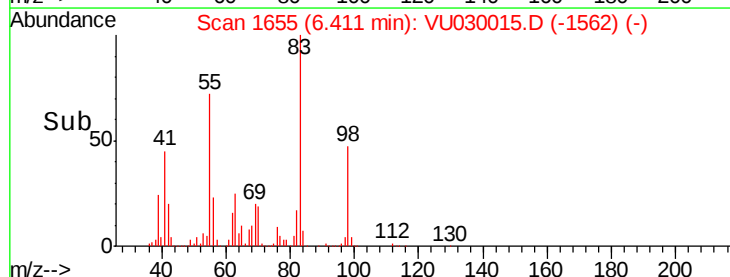
98 45.9 37.8 56.6

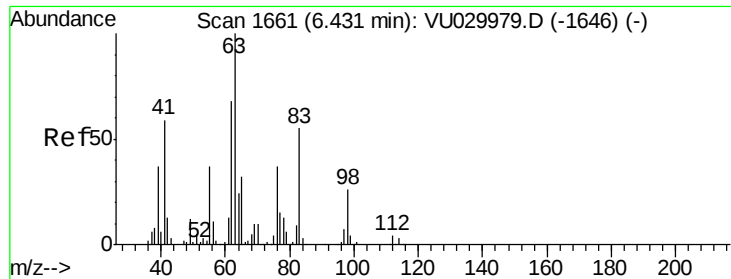


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

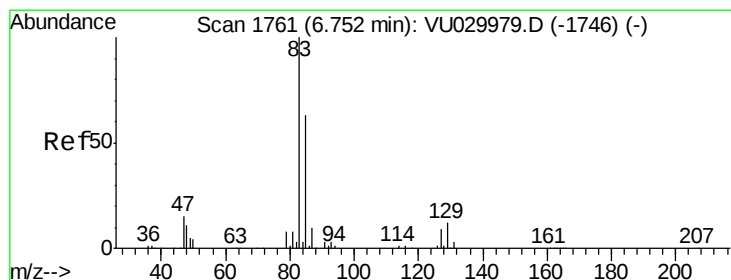
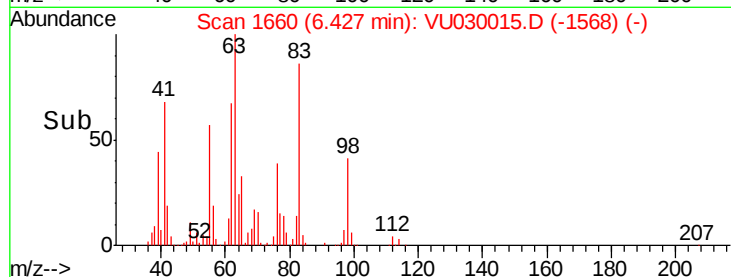
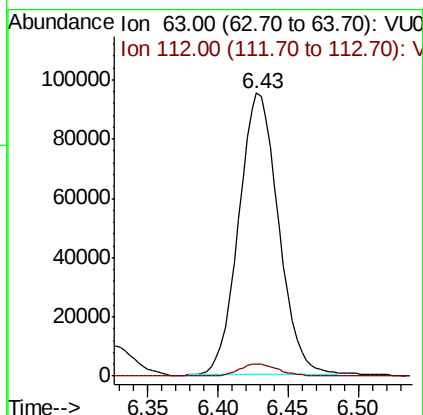
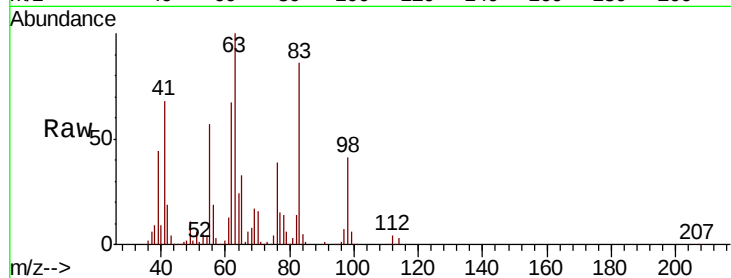




#37
 1,2-Dichloropropane
 Concen: 50.264 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

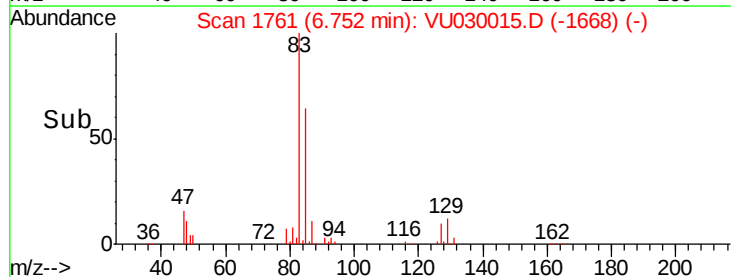
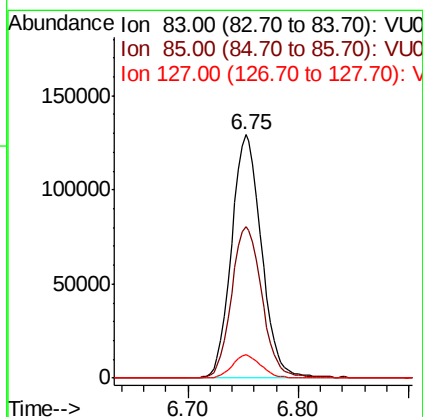
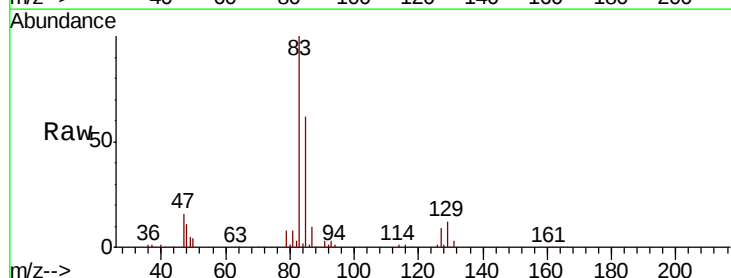
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05032

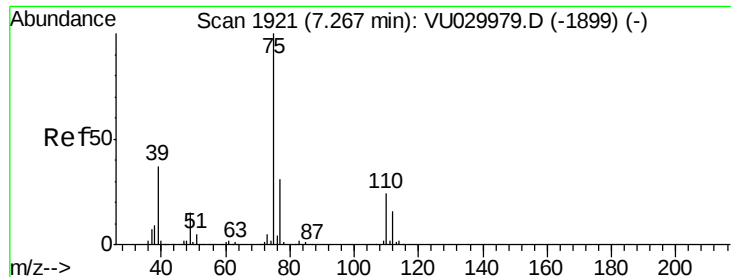
Tgt Ion: 63 Resp: 188099
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.4 5.2



#38
 Bromodichloromethane
 Concen: 52.470 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

Tgt Ion: 83 Resp: 244170
 Ion Ratio Lower Upper
 83 100
 85 62.3 45.7 84.9
 127 9.4 7.7 11.5

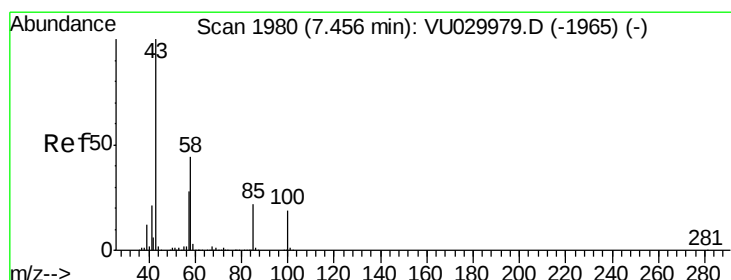
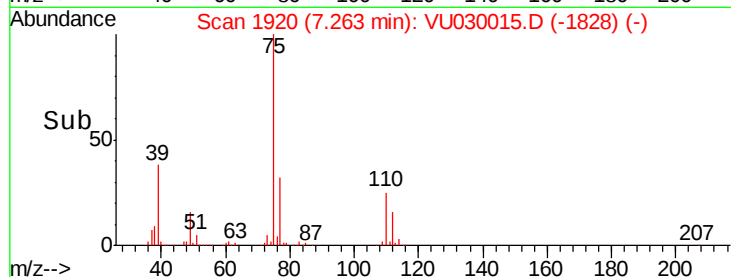
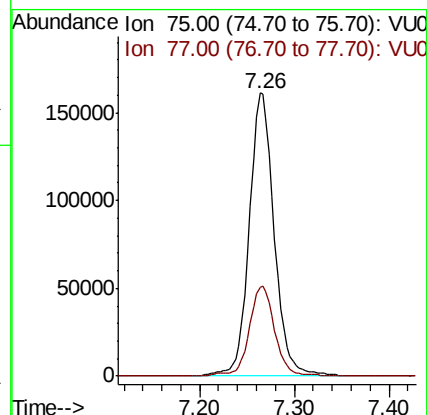
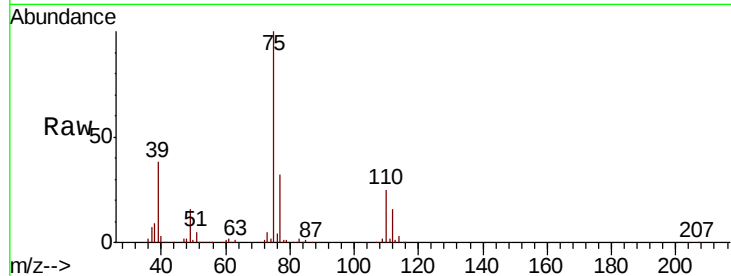




#39
 cis-1,3-Dichloropropene
 Concen: 50.877 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

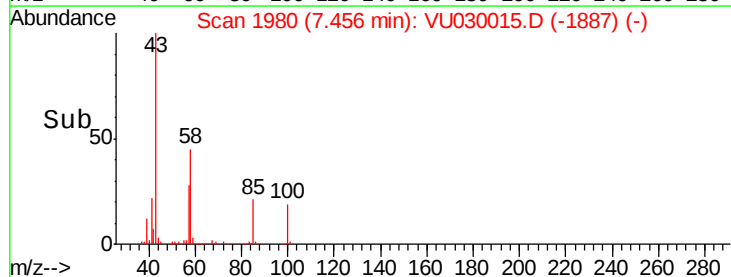
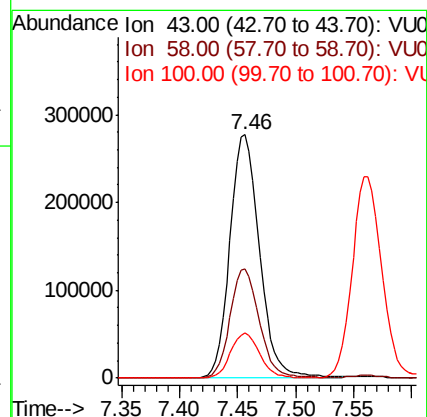
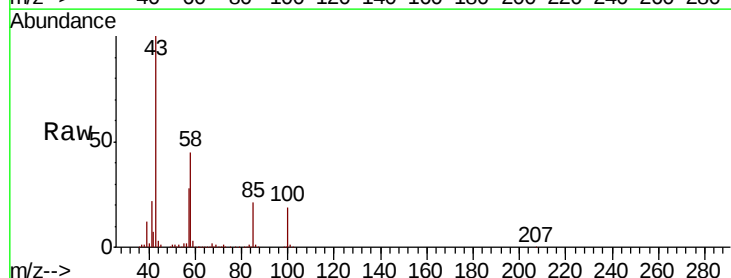
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

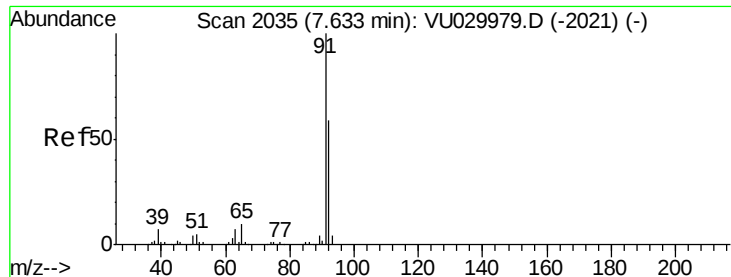
Tgt Ion: 75 Resp: 296286
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 97.400 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

Tgt Ion: 43 Resp: 492144
 Ion Ratio Lower Upper
 43 100
 58 44.3 35.1 52.7
 100 18.2 14.4 21.6





#42

Toluene

Concen: 51.268 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

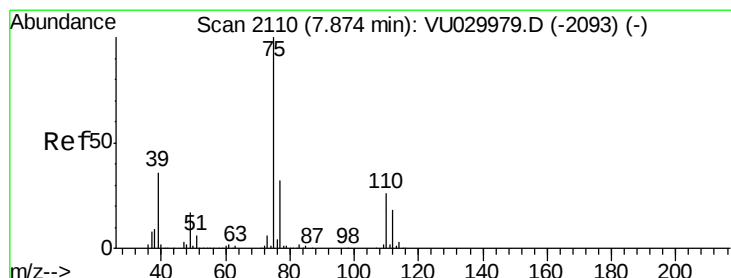
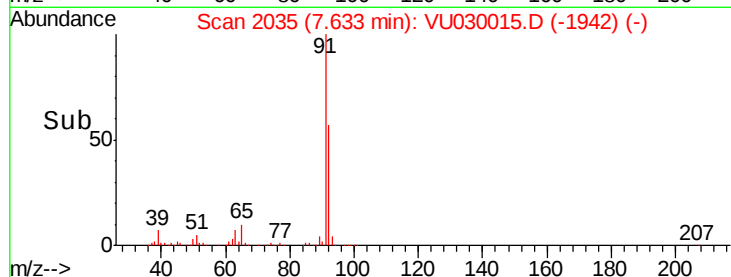
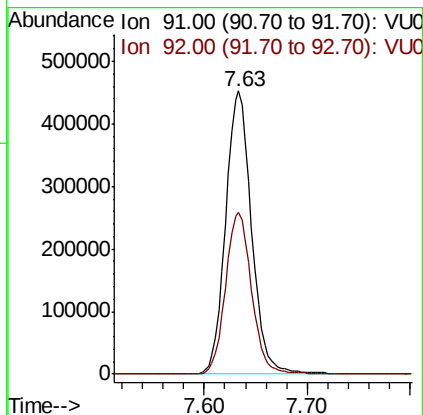
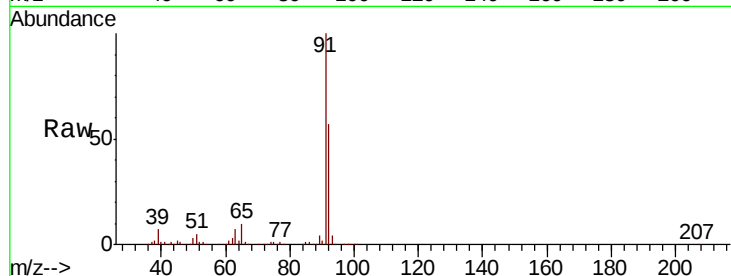
VSTD05032

Tgt Ion: 91 Resp: 793023

Ion Ratio Lower Upper

91 100

92 57.3 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 50.851 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU030015.D

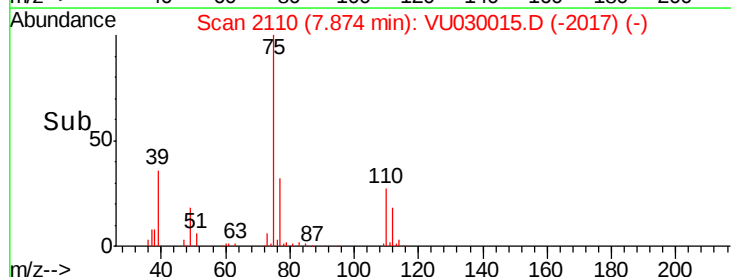
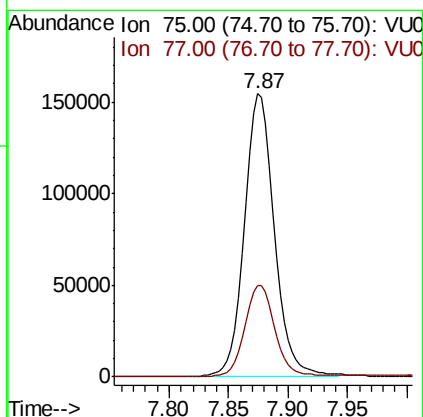
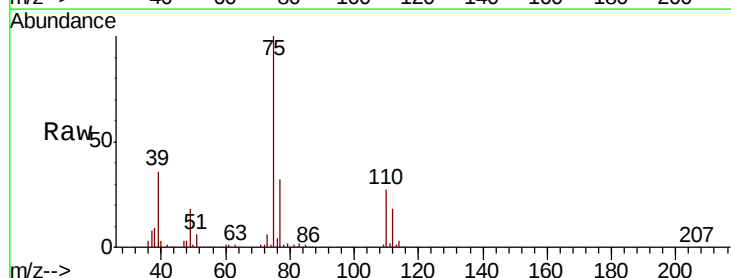
Acq: 13 Mar 2019 08:54

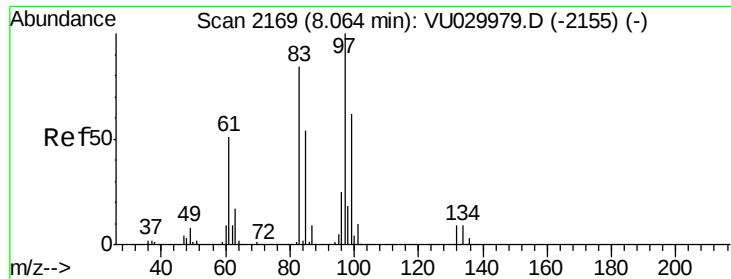
Tgt Ion: 75 Resp: 270384

Ion Ratio Lower Upper

75 100

77 32.2 21.9 40.7

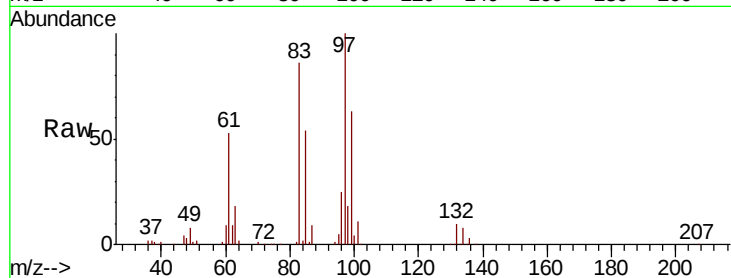




#45
 1,1,2-Trichloroethane
 Concen: 50.371 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Tgt Ion:	97	Resp:	188512
Ion	Ratio	Lower	Upper
97	100		
99	62.6	44.7	82.9
83	86.1	58.6	108.8
85	54.2	38.1	70.7



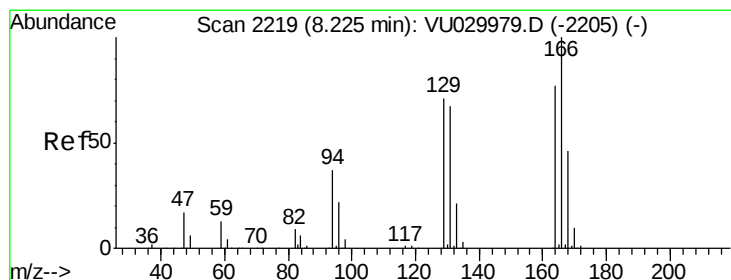
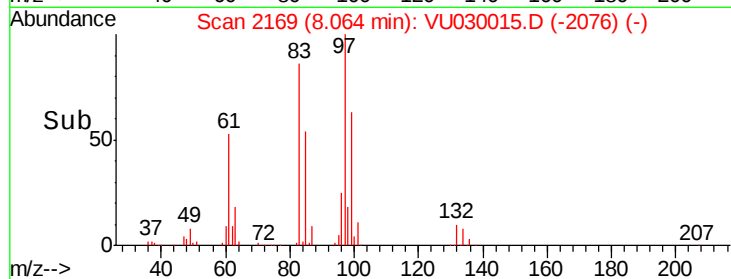
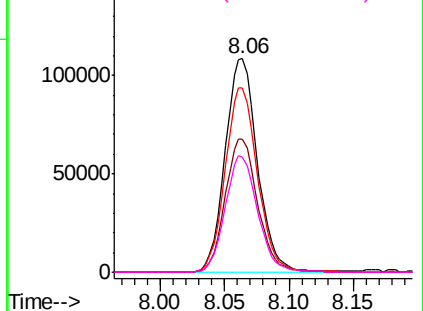
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

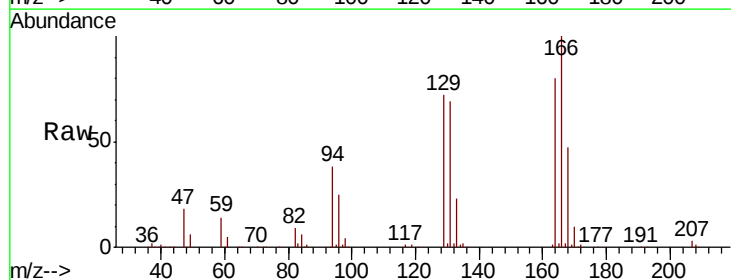
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 51.379 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

Tgt Ion:	164	Resp:	167654
Ion	Ratio	Lower	Upper
164	100		
129	90.7	63.3	117.7
131	86.4	62.0	115.2
166	125.5	90.5	168.1



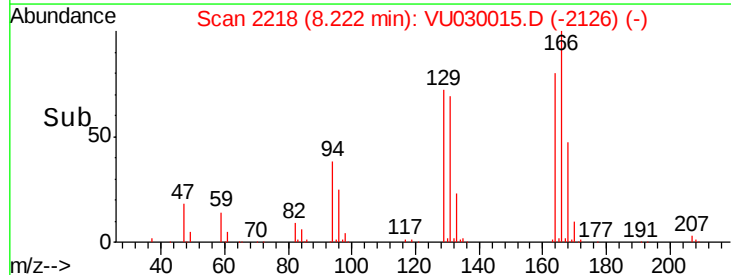
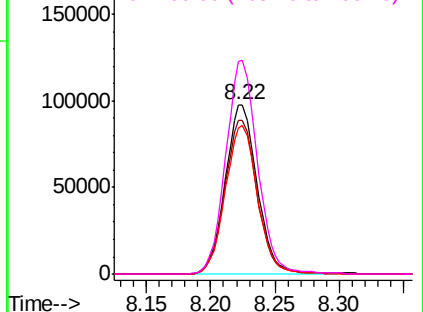
Abundance

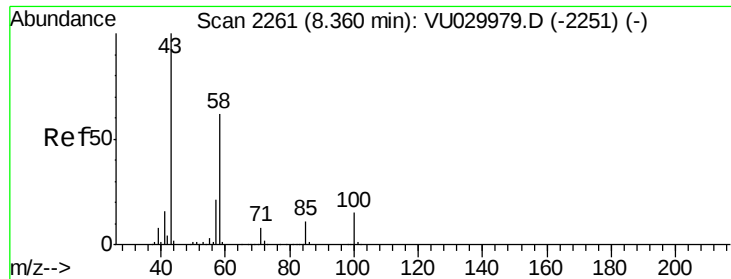
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

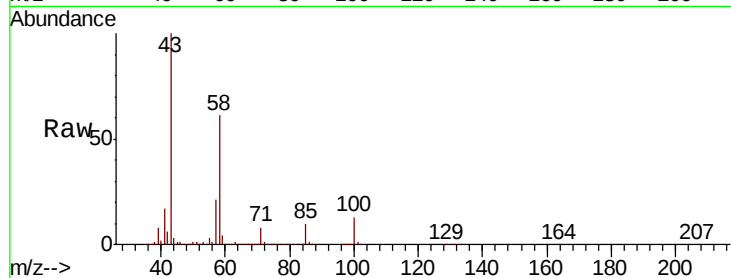




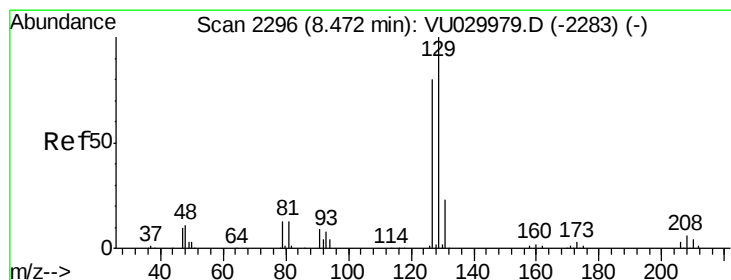
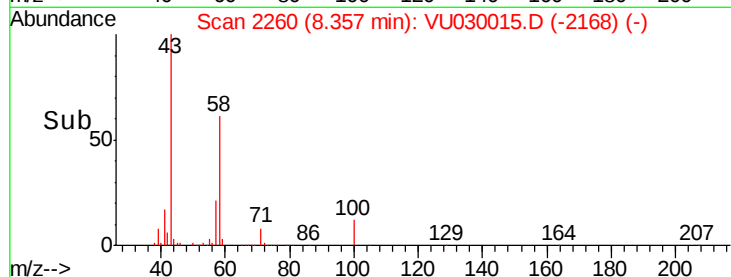
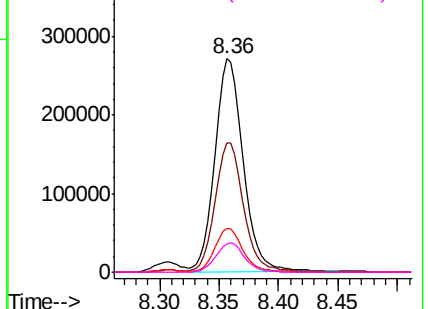
#48
2-Hexanone
Concen: 103.903 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

Tgt Ion: 43 Resp: 447890
Ion Ratio Lower Upper
43 100
58 61.2 48.6 72.8
57 20.4 16.1 24.1
100 13.9 11.6 17.4

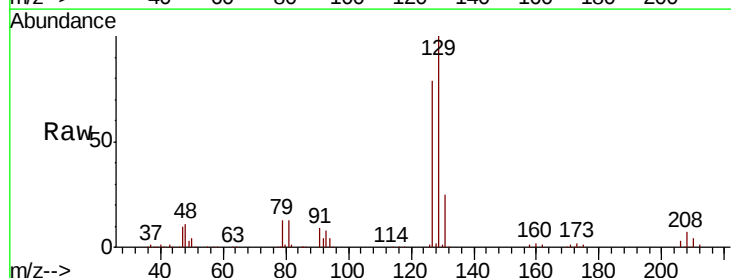


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

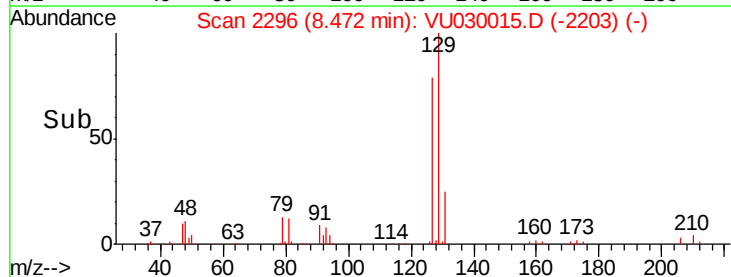
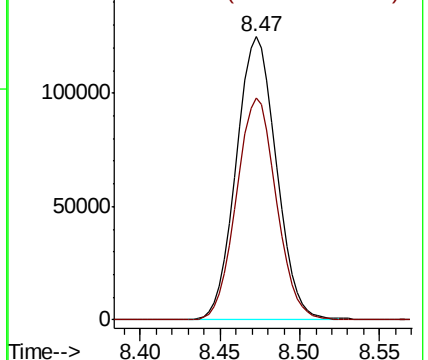


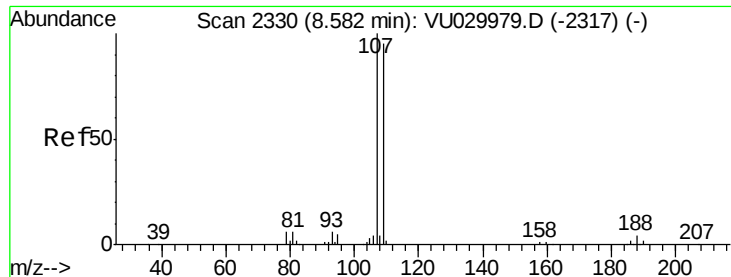
#49
Dibromochloromethane
Concen: 51.157 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

Tgt Ion: 129 Resp: 213904
Ion Ratio Lower Upper
129 100
127 78.6 55.2 102.4



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

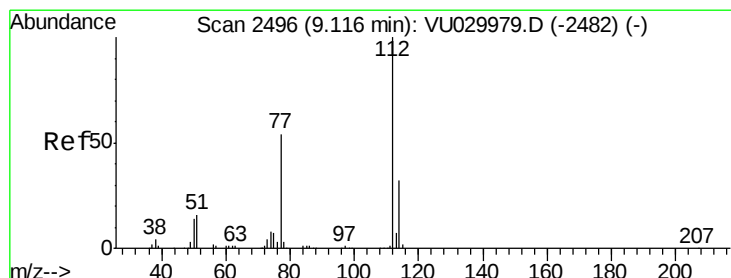
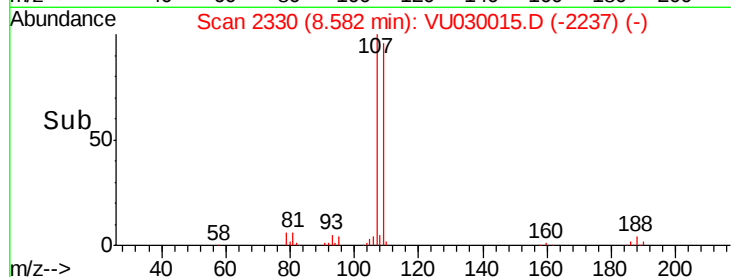
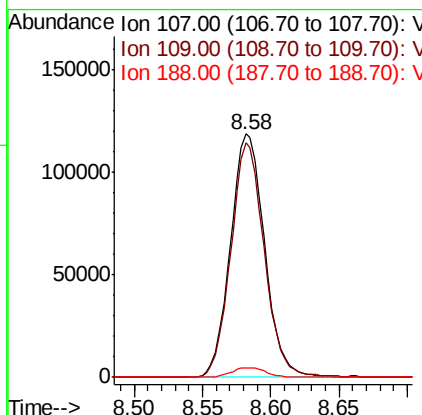
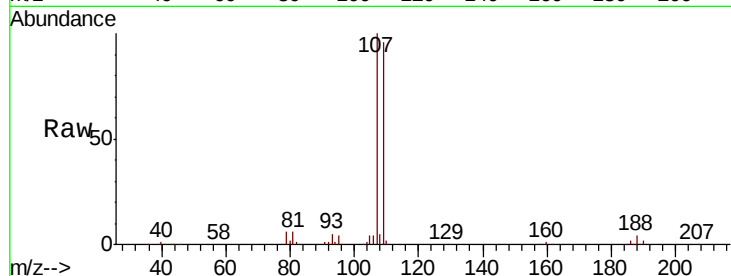




#50
1,2-Dibromoethane
Concen: 49.986 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

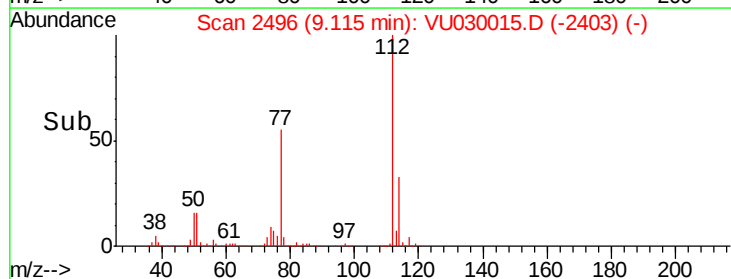
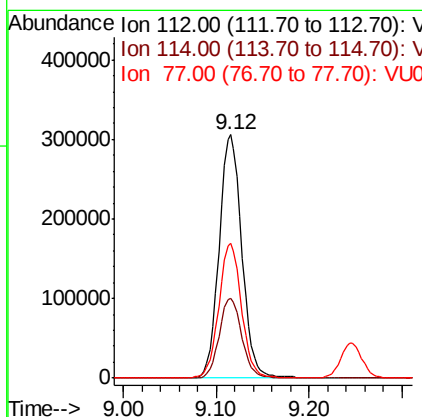
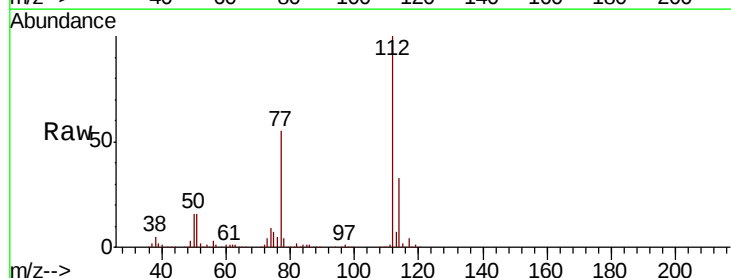
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

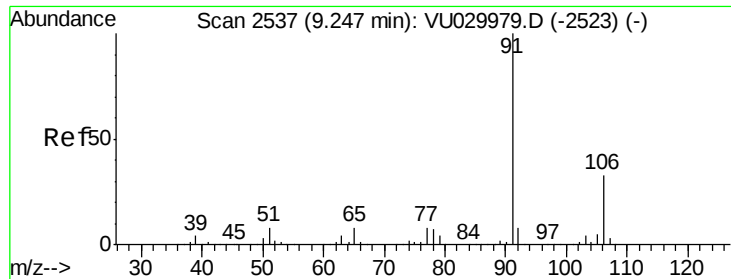
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.3	67.8	126.0
188	4.1	3.2	4.8



#51
Chlorobenzene
Concen: 49.719 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.0	22.5	41.9
77	55.4	44.6	66.8





#52

Ethylbenzene

Concen: 50.630 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

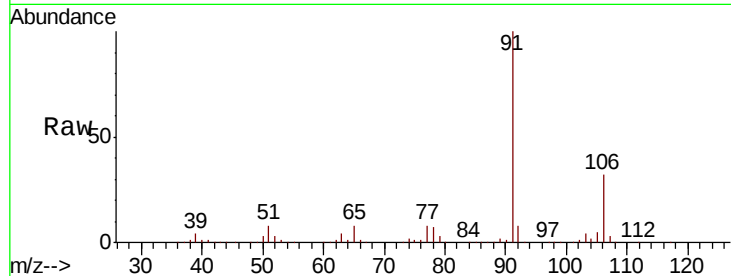
VSTD05032

Tgt Ion: 91 Resp: 862131

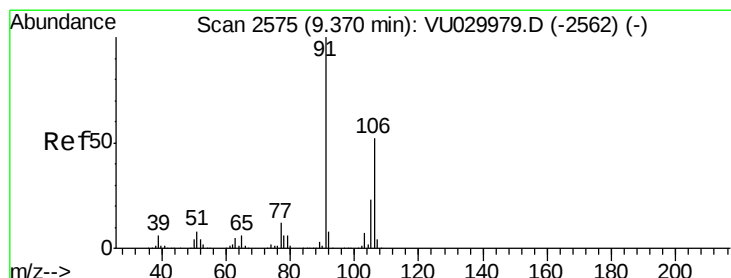
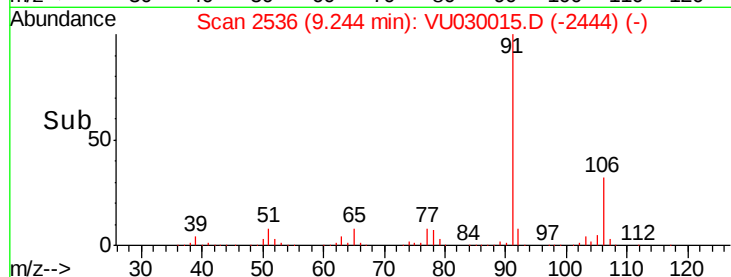
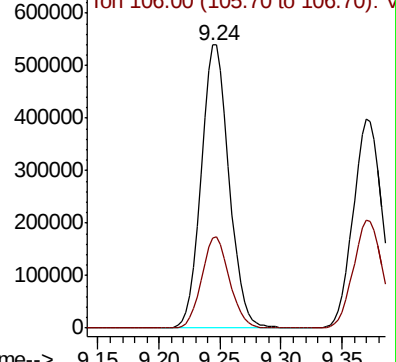
Ion Ratio Lower Upper

91 100

106 31.9 22.5 41.9



Abundance Ion 91.00 (90.70 to 91.70): VU030015.D (-2444) (-)



#53

m,p-Xylene

Concen: 51.893 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030015.D

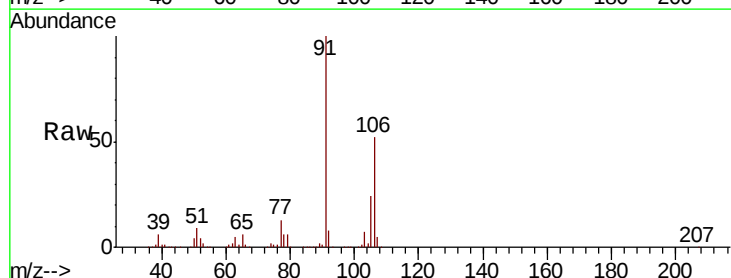
Acq: 13 Mar 2019 08:54

Tgt Ion: 106 Resp: 341880

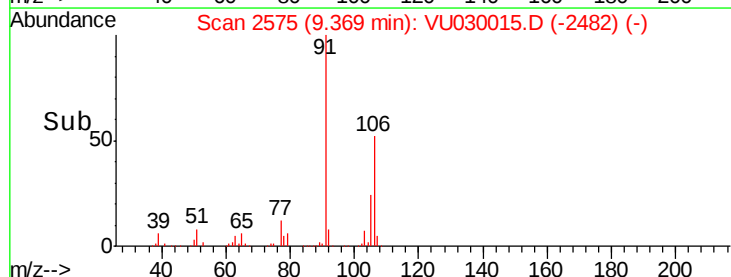
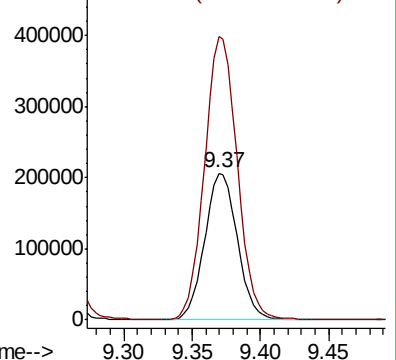
Ion Ratio Lower Upper

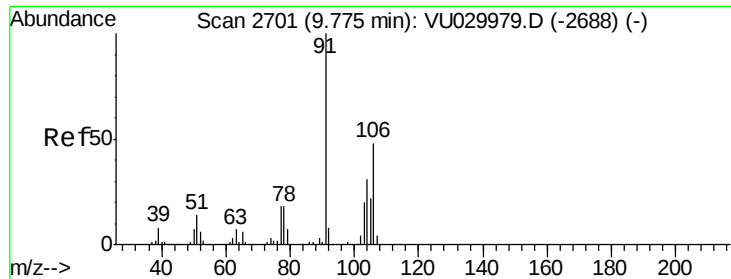
106 100

91 193.2 135.1 250.9



Abundance Ion 106.00 (105.70 to 106.70): VU030015.D (-2482) (-)

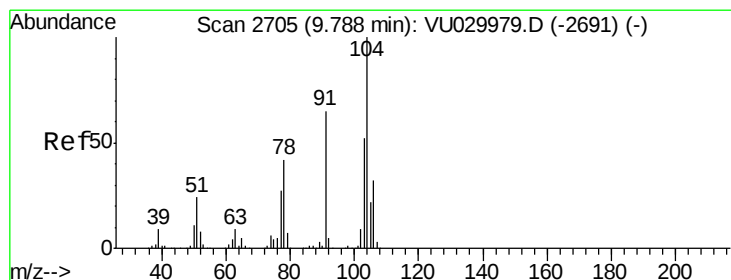
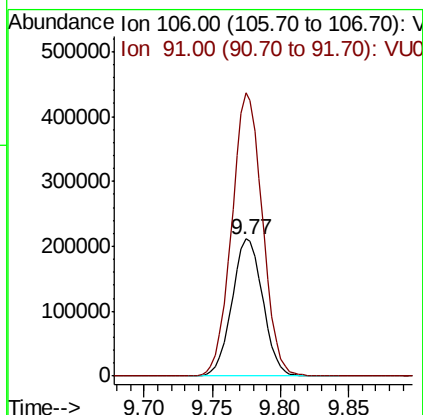
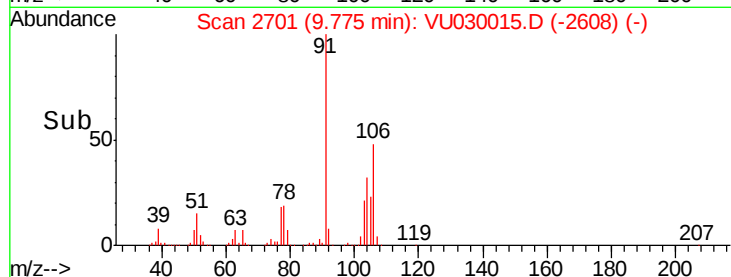
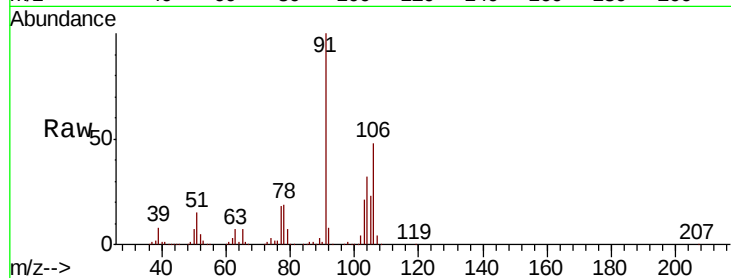




#54
o-xylene
Concen: 51.161 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

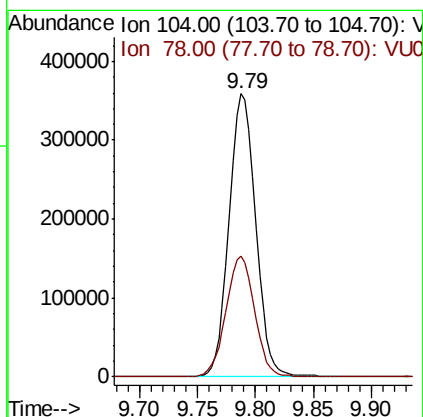
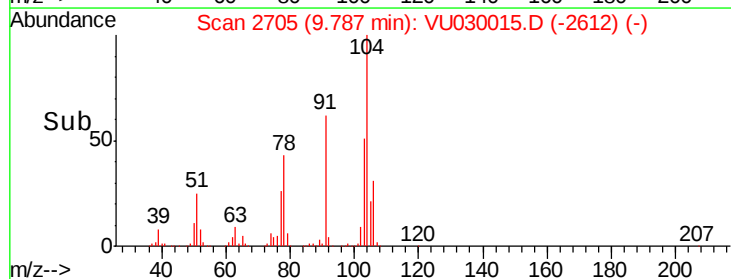
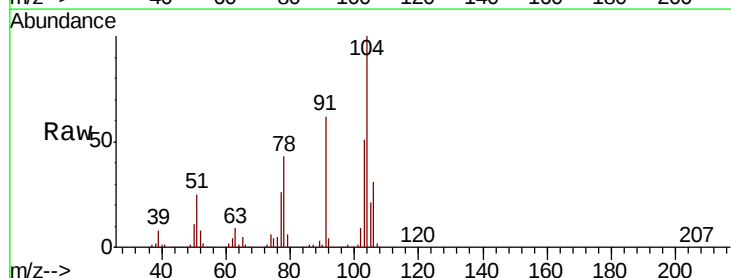
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

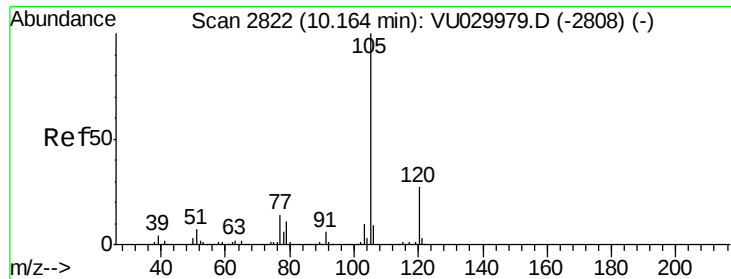
Tgt Ion:106 Resp: 331065
Ion Ratio Lower Upper
106 100
91 206.7 144.5 268.4



#55
Styrene
Concen: 51.759 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

Tgt Ion:104 Resp: 570306
Ion Ratio Lower Upper
104 100
78 42.7 30.6 56.8

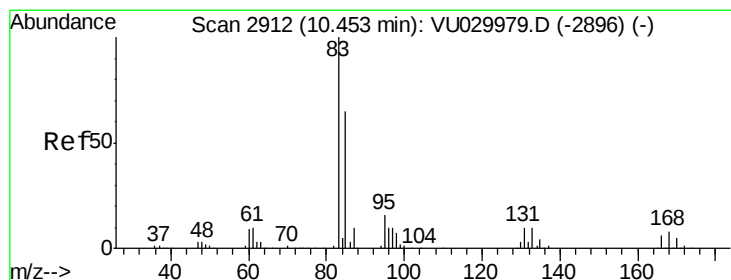
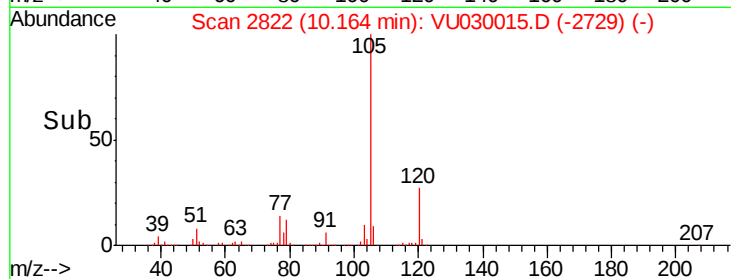
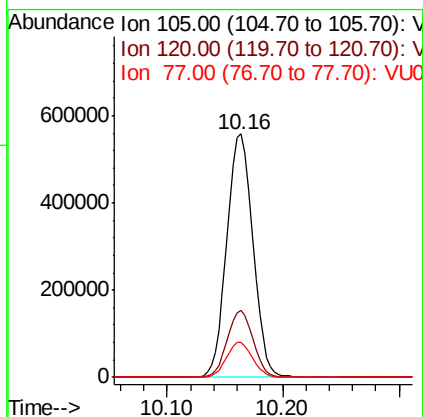
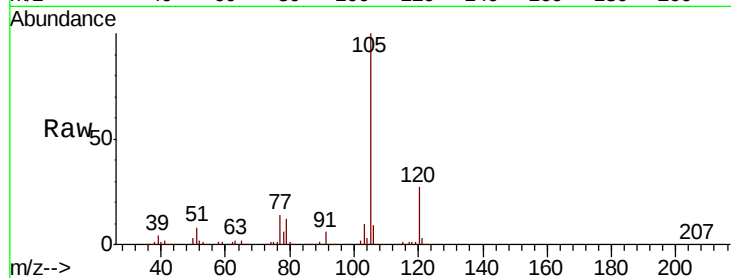




#56
Isopropylbenzene
Concen: 51.122 ug/L
RT: 10.16 min Scan# 2822
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

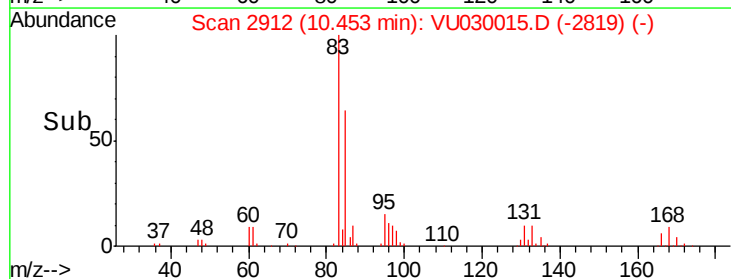
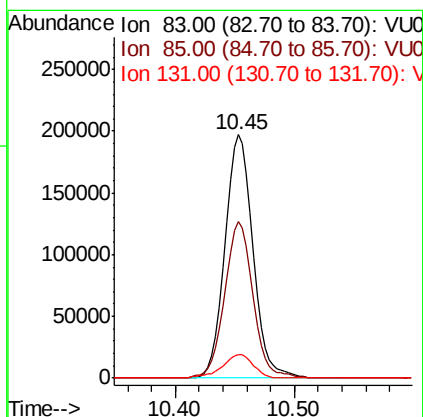
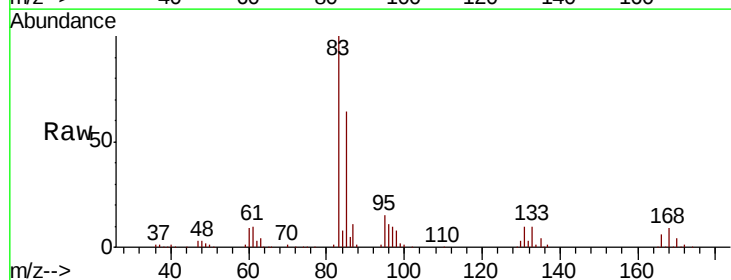
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

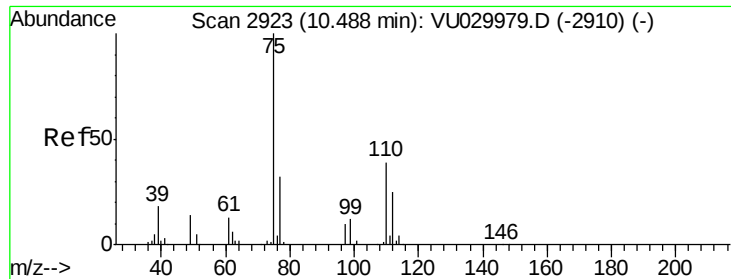
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.2	21.7	32.5
77	14.2	11.1	16.7



#58
1,1,2,2-Tetrachloroethane
Concen: 50.138 ug/L
RT: 10.45 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VU030015.D
Acq: 13 Mar 2019 08:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	45.9	85.3
131	9.8	8.5	12.7

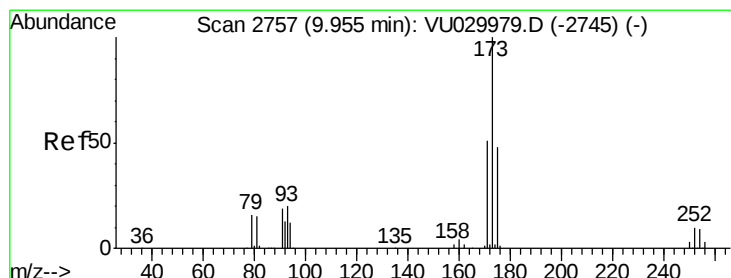
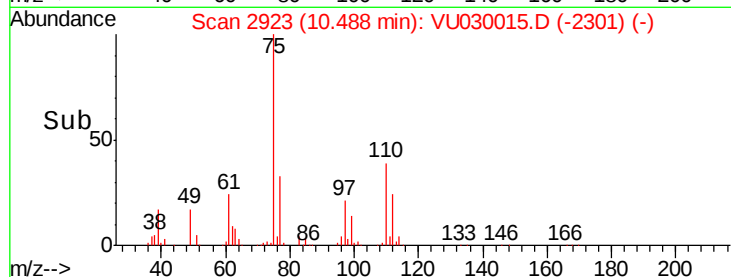
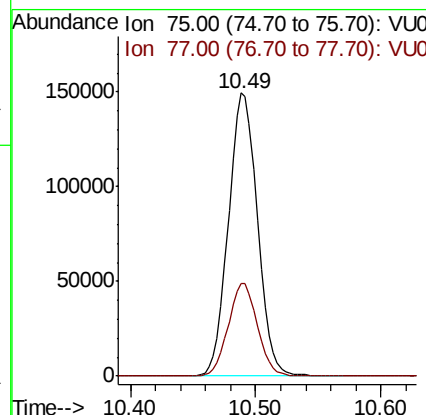
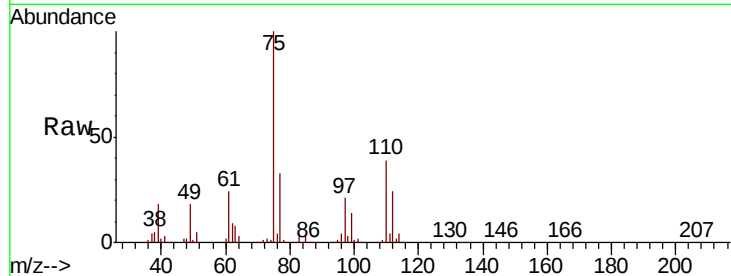




#59
 1,2,3-Trichloropropane
 Concen: 49.155 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

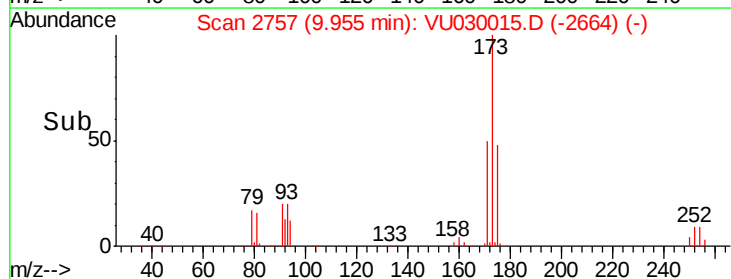
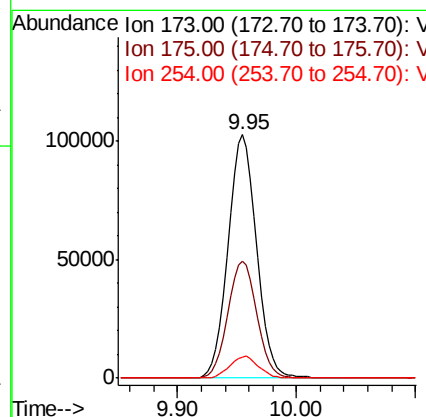
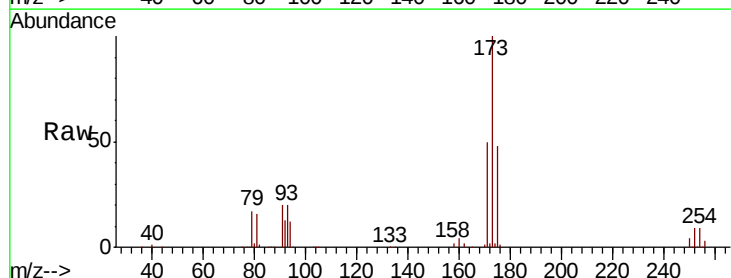
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

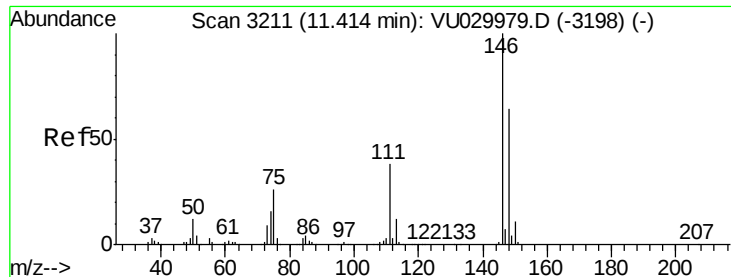
Tgt Ion: 75 Resp: 239565
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.8 38.8



#61
 Bromoform
 Concen: 52.503 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

Tgt Ion: 173 Resp: 170174
 Ion Ratio Lower Upper
 173 100
 175 49.0 39.0 58.6
 254 9.1 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 50.278 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

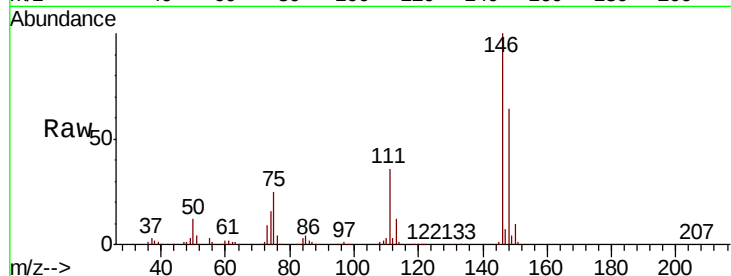
Tgt Ion:146 Resp: 422802

Ion Ratio Lower Upper

146 100

111 36.4 26.7 49.5

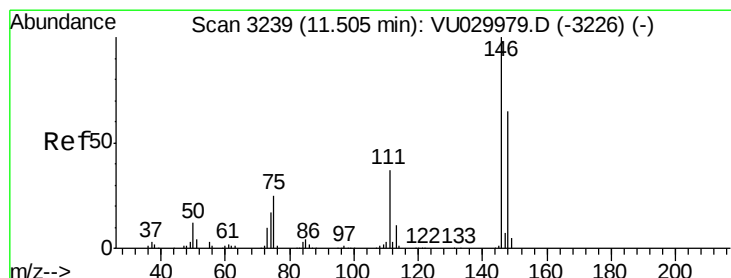
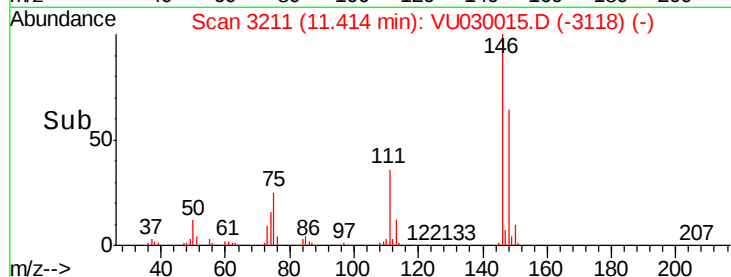
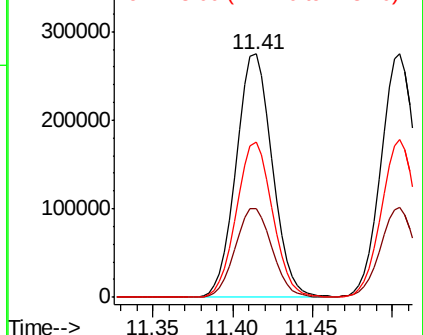
148 63.6 44.9 83.5



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: 50.286 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

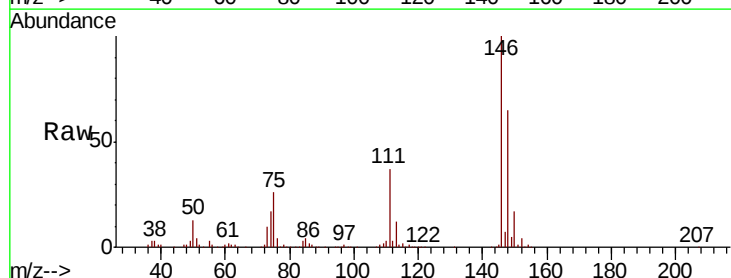
Tgt Ion:146 Resp: 429989

Ion Ratio Lower Upper

146 100

111 36.7 25.5 47.3

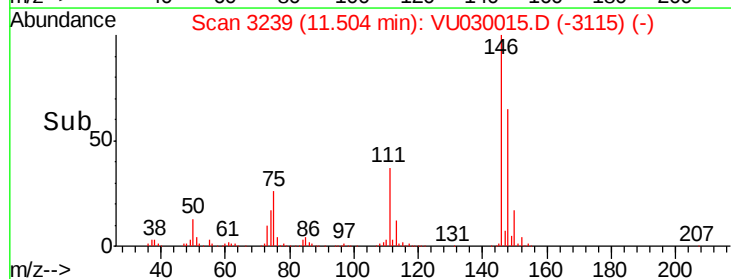
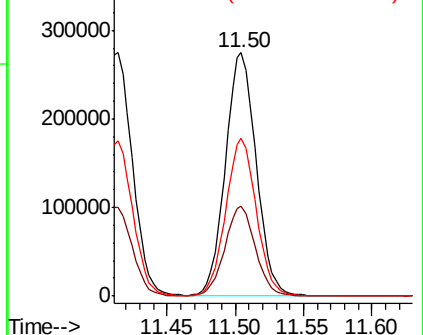
148 64.7 45.0 83.6

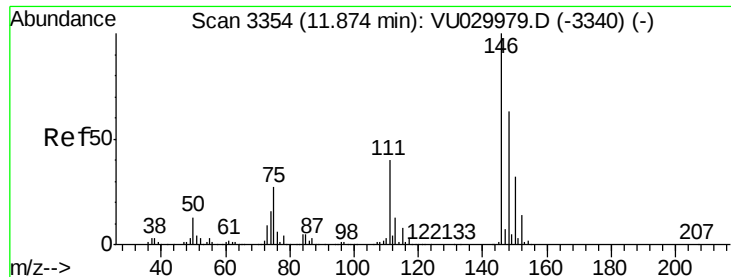


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

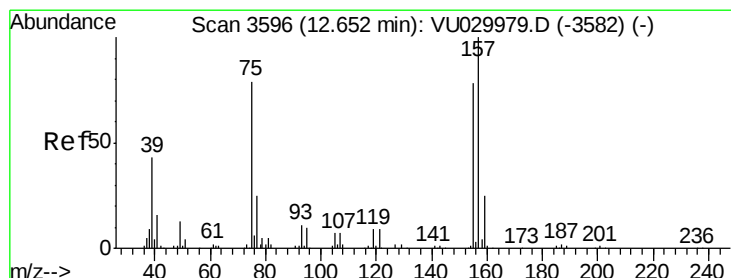
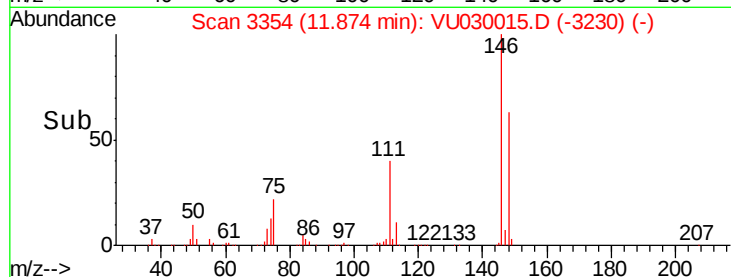
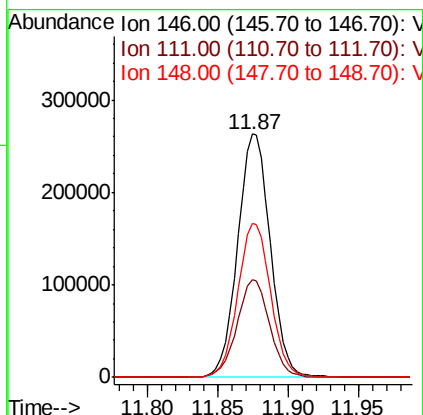
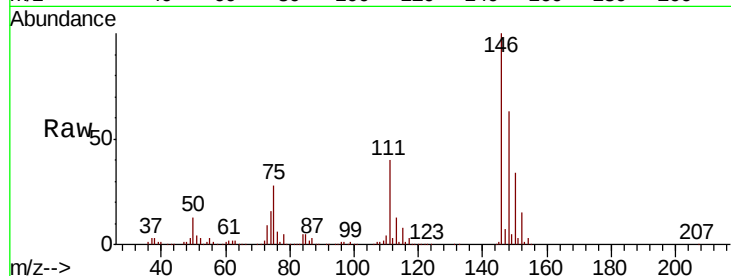




#65
 1,2-Dichlorobenzene
 Concen: 50.389 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

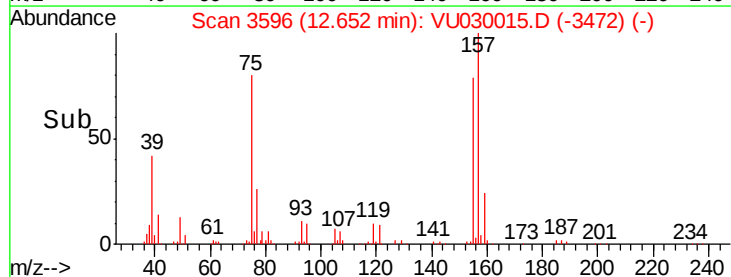
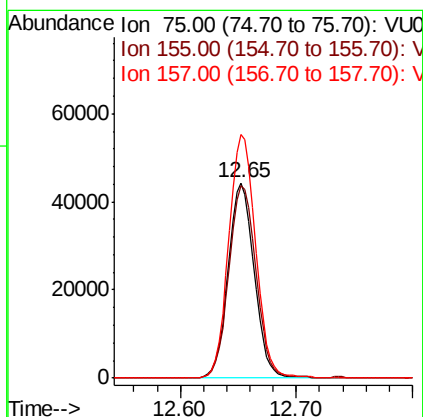
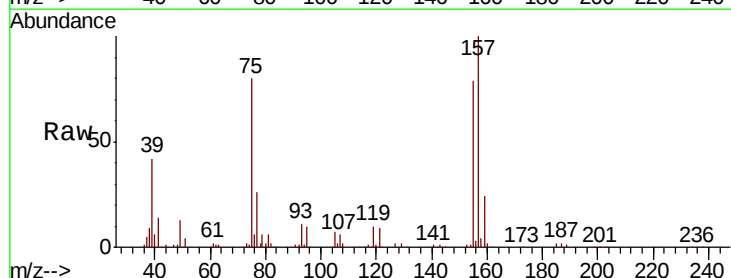
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

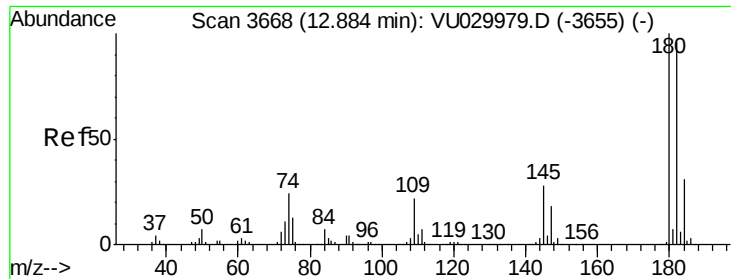
Tgt Ion: 146 Resp: 426519
 Ion Ratio Lower Upper
 146 100
 111 40.3 30.9 46.3
 148 63.5 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.201 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

Tgt Ion: 75 Resp: 69052
 Ion Ratio Lower Upper
 75 100
 155 98.4 80.9 121.3
 157 124.8 104.6 156.8

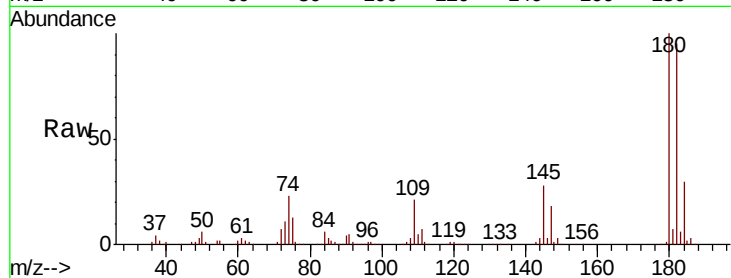




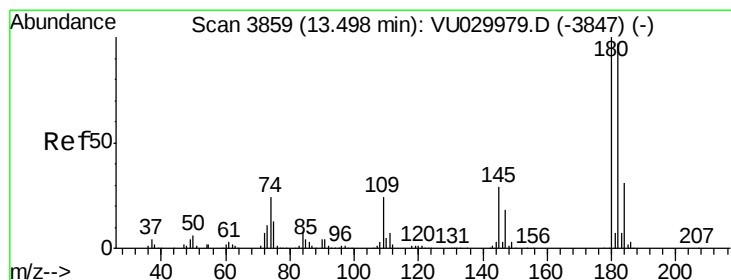
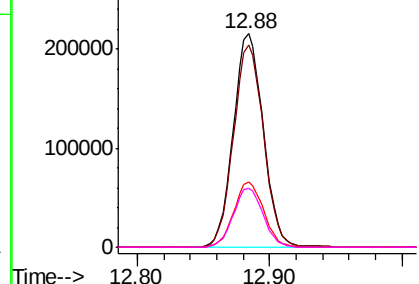
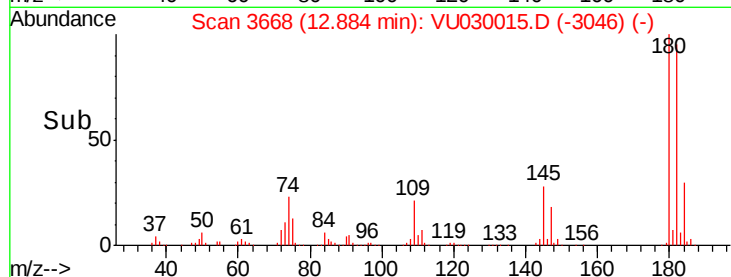
#67
 1,3,5-Trichlorobenzene
 Concen: 51.894 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Tgt Ion:180 Resp: 338716
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.3 114.5
 184 30.3 24.7 37.1
 145 27.5 22.3 33.5

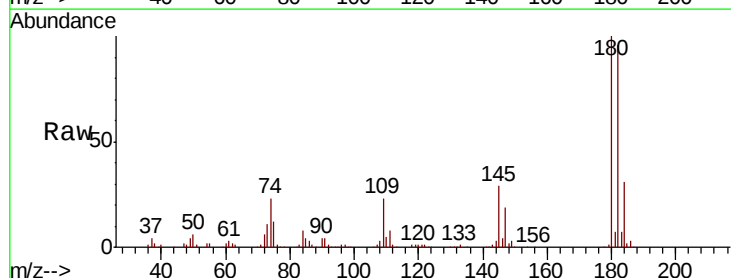


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

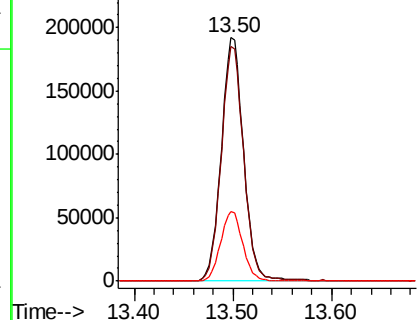
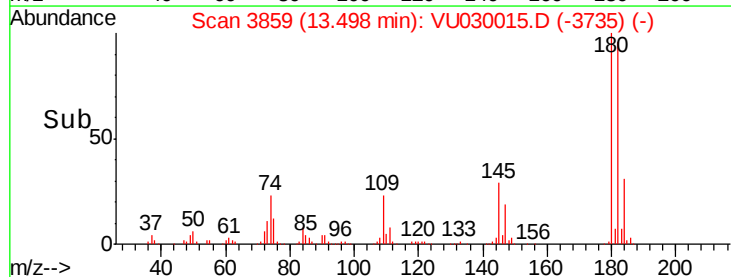


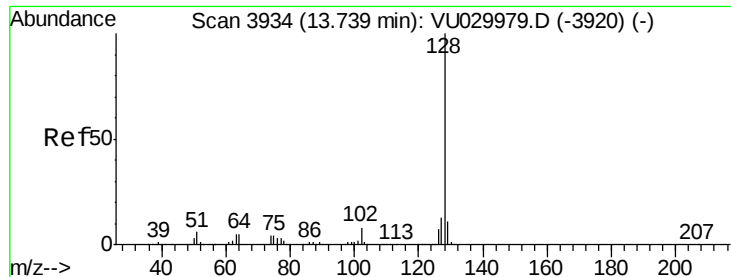
#68
 1,2,4-trichlorobenzene
 Concen: 51.359 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030015.D
 Acq: 13 Mar 2019 08:54

Tgt Ion:180 Resp: 306636
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.1 114.1
 145 28.2 23.0 34.4



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: 49.547 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

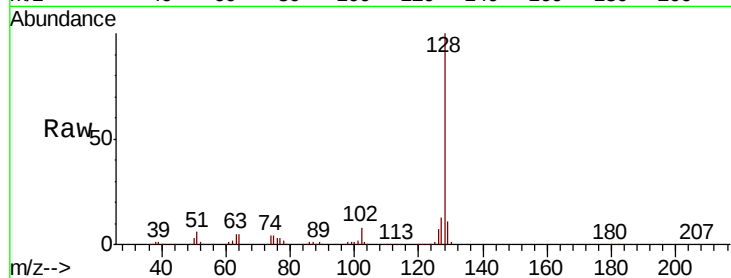
Tgt Ion:128 Resp: 961115

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

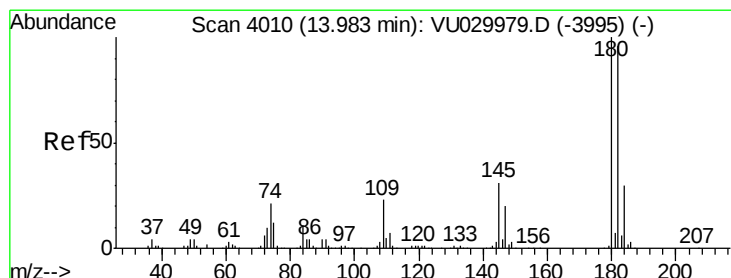
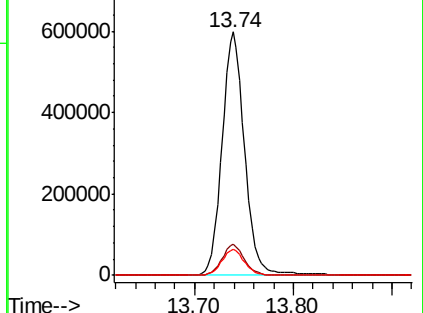
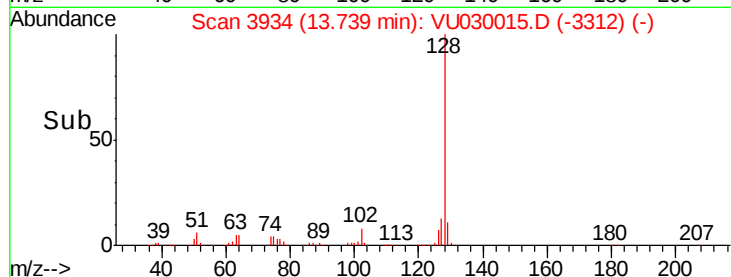
129 10.6 8.7 13.1



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: 50.742 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030015.D

Acq: 13 Mar 2019 08:54

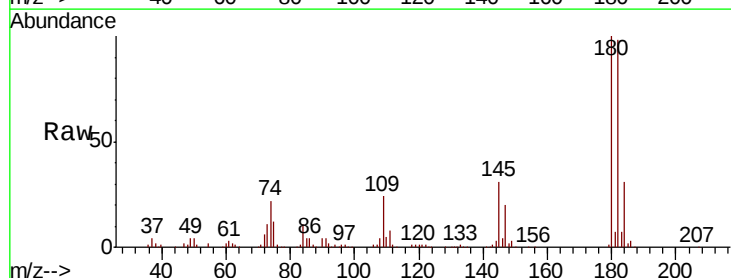
Tgt Ion:180 Resp: 314723

Ion Ratio Lower Upper

180 100

182 96.3 75.9 113.9

145 30.3 24.0 36.0



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

