

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010419\
 Data File : VU029020.D
 Acq On : 04 Jan 2019 12:03
 Operator : MD/SY
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

Quant Time: Jan 04 22:44:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR122818WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 04 22:41:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	93028	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	87744	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	43800	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	28006	5.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.60%
7) Chloroethane-d5	1.68	69	23642	5.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.80%
11) 1,1-Dichloroethene-d2	2.27	63	53578	5.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.60%
20) 2-Butanone-d5	4.20	46	71790	55.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.34%
24) Chloroform-d	4.65	84	51541	5.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.40%
26) 1,2-Dichloroethane-d4	5.31	65	25172	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
32) Benzene-d6	5.34	84	106530	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.80%
36) 1,2-Dichloropropane-d6	6.33	67	35667	5.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.80%
41) Toluene-d8	7.56	98	99647	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.00%
43) trans-1,3-Dichloropropene-	7.85	79	13584	5.51	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	110.20%
46) 2-Hexanone-d5	8.31	63	64480	57.36	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.72%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	27233	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	34980	4.77	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	40925	5.023	ug/L	98
3) Chloromethane	1.32	50	46244	5.087	ug/L	99
5) Vinyl chloride	1.40	62	47949	5.162	ug/L	97
6) Bromomethane	1.63	94	20958	4.873	ug/L	98
8) Chloroethane	1.70	64	26946	5.083	ug/L	98
9) Trichlorofluoromethane	1.88	101	49129	4.625	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	31971	4.664	ug/L	98
12) 1,1-Dichloroethene	2.28	96	30896	4.635	ug/L	85
13) Acetone	2.34	43	49976	47.582	ug/L	100
14) Carbon disulfide	2.48	76	107707	4.625	ug/L	99
15) Methyl Acetate	2.62	43	15812	5.138	ug/L	92
16) Methylene chloride	2.70	84	34841	3.651	ug/L	95
17) Methyl tert-butyl Ether	3.00	73	77583	4.740	ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	33949	4.639	ug/L	98
19) 1,1-Dichloroethane	3.44	63	61245	4.930	ug/L	98
21) 2-Butanone	4.29	43	86169	54.837	ug/L	94
22) cis-1,2-Dichloroethene	4.22	96	36073	4.765	ug/L	92

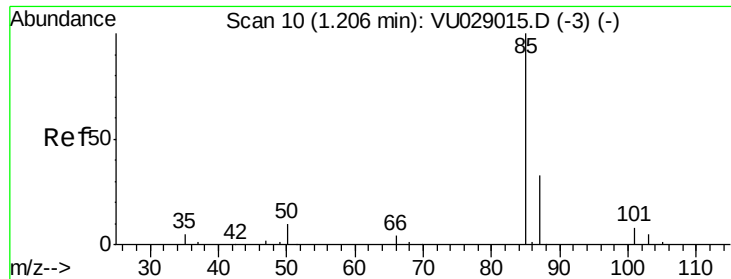
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010419\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	15235	4.959	ug/L	95
25) Chloroform	4.67	83	59610	5.050	ug/L	99
27) 1,2-Dichloroethane	5.40	62	35669	5.108	ug/L	98
29) 1,1,1-Trichloroethane	4.91	97	48681	5.052	ug/L	98
30) Cyclohexane	4.99	56	57264	4.960	ug/L	96
31) Carbon tetrachloride	5.13	117	38840	5.062	ug/L	98
33) Benzene	5.39	78	142520	5.080	ug/L	100
34) Trichloroethene	6.18	95	35367	4.930	ug/L	97
35) Methylcyclohexane	6.41	83	58335	4.734	ug/L	95
37) 1,2-Dichloropropane	6.43	63	39024	5.460	ug/L	99
38) Bromodichloromethane	6.76	83	42023	5.222	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	51287	5.004	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	211704	55.662	ug/L	97
42) Toluene	7.64	91	148536	4.946	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	41823	5.237	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	24496	5.036	ug/L	95
47) Tetrachloroethene	8.22	164	28221	4.750	ug/L	97
48) 2-Hexanone	8.37	43	149495	56.822	ug/L	97
49) Dibromochloromethane	8.48	129	27563	5.337	ug/L	100
50) 1,2-Dibromoethane	8.58	107	23336	5.129	ug/L	99
51) Chlorobenzene	9.12	112	90820	4.821	ug/L	96
52) Ethylbenzene	9.25	91	153408	4.815	ug/L	98
53) m,p-xylene	9.37	106	59183	4.881	ug/L	100
54) o-xylene	9.78	106	57237	4.863	ug/L	98
55) Styrene	9.79	104	97455	4.975	ug/L	100
56) Isopropylbenzene	10.16	105	147868	4.764	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	32944	5.532	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	22379	5.371	ug/L	99
61) Bromoform	9.96	173	15583	5.214	ug/L	95
62) 1,3-Dichlorobenzene	11.41	146	68952	4.657	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	68280	4.519	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	66087	4.717	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	4413	5.335	ug/L	91
67) 1,3,5-Trichlorobenzene	12.89	180	54135	4.725	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	44274	4.637	ug/L	99
69) Naphthalene	13.74	128	75099	4.599	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	42712	4.690	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.023 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

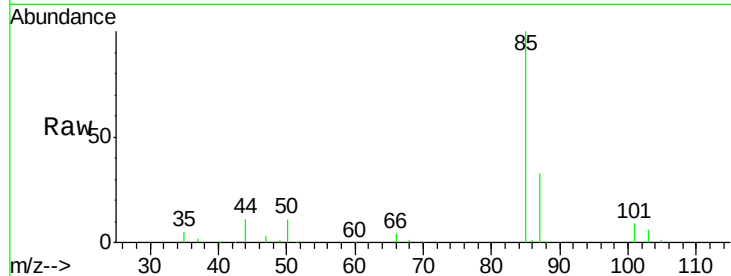
VSTD00552

Tot Ion: 85 Resp: 40925

Ion Ratio Lower Upper

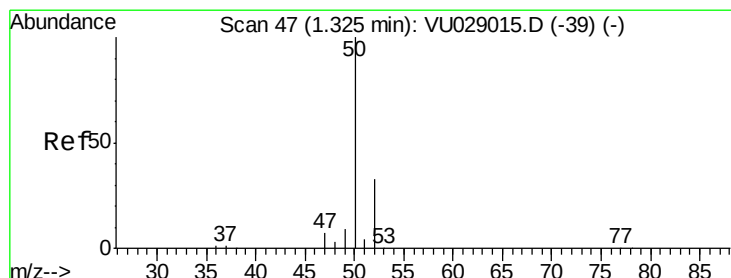
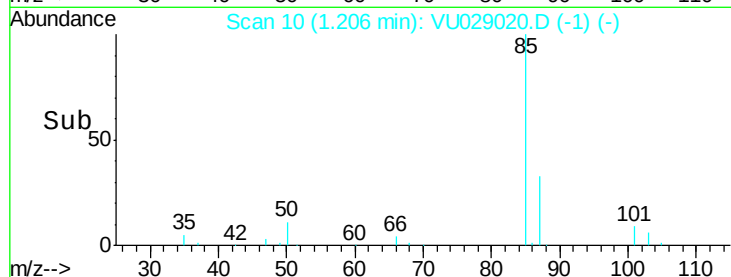
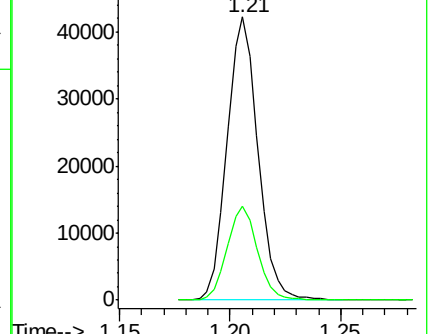
85 100

87 32.7 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 5.087 ug/L

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU029020.D

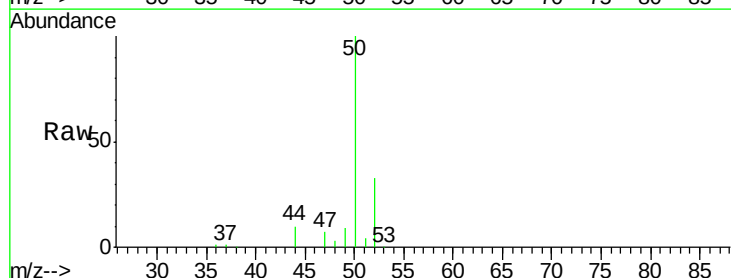
Acq: 04 Jan 2019 12:03

Tgt Ion: 50 Resp: 46244

Ion Ratio Lower Upper

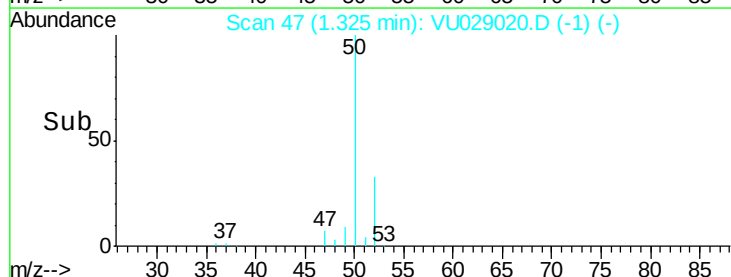
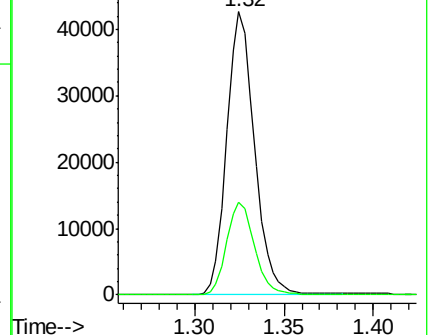
50 100

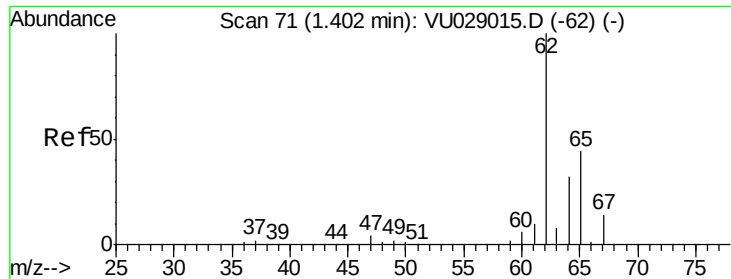
52 33.0 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 5.162 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

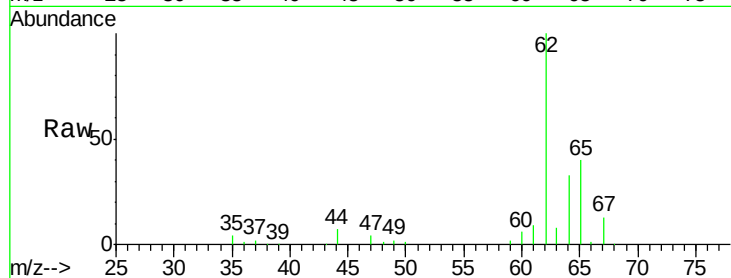
VSTD00552

Tot Ion: 62 Resp: 47949

Ion Ratio Lower Upper

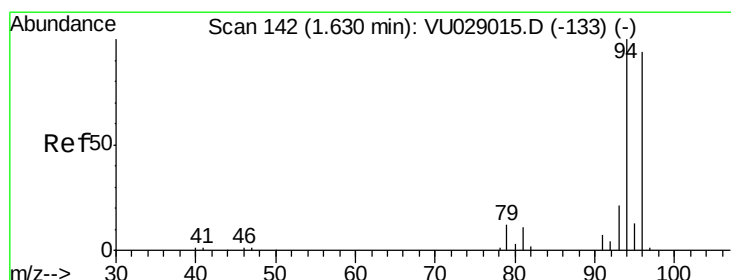
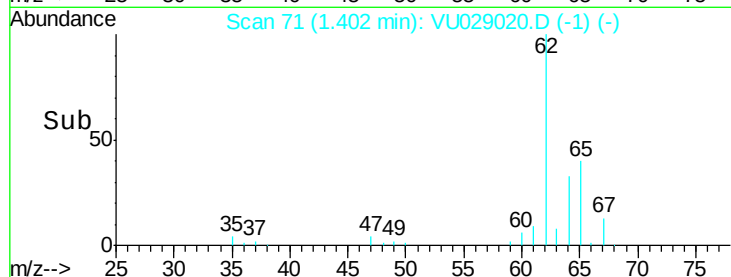
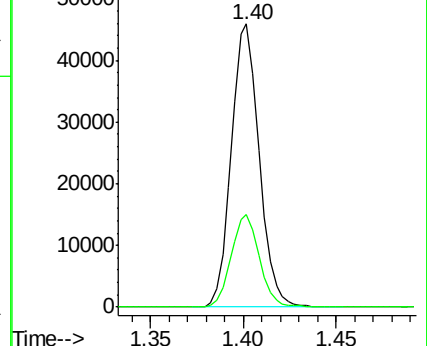
62 100

64 32.7 21.6 40.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.873 ug/L

RT: 1.63 min Scan# 142

Delta R.T. -0.00 min

Lab File: VU029020.D

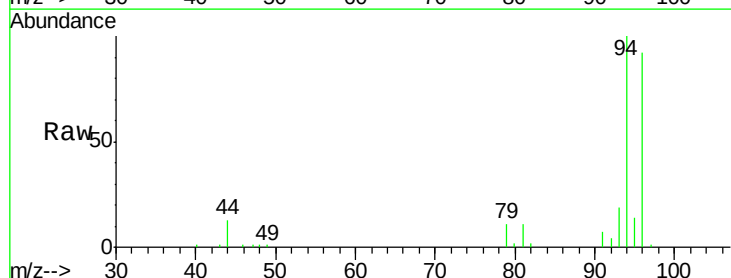
Acq: 04 Jan 2019 12:03

Tgt Ion: 94 Resp: 20958

Ion Ratio Lower Upper

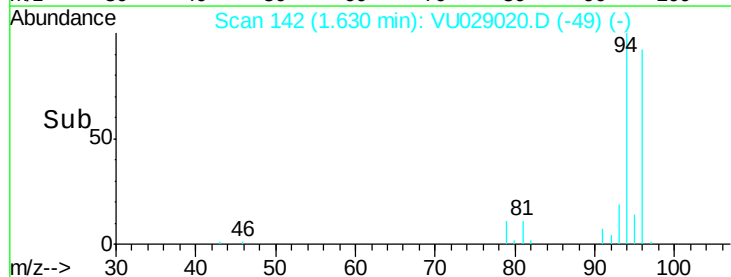
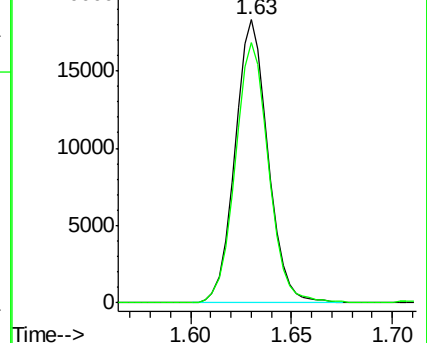
94 100

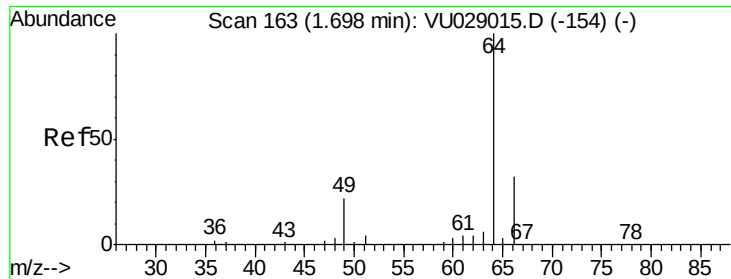
96 92.2 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 5.083 ug/L

RT: 1.70 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

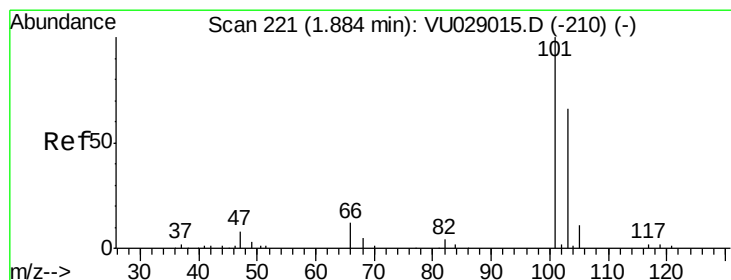
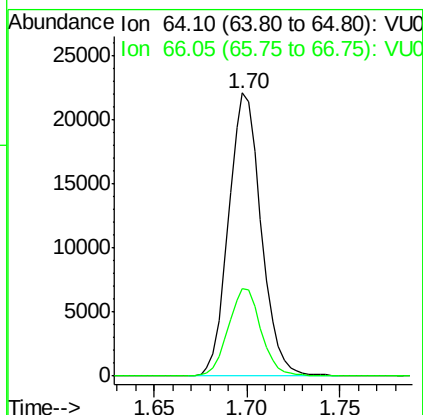
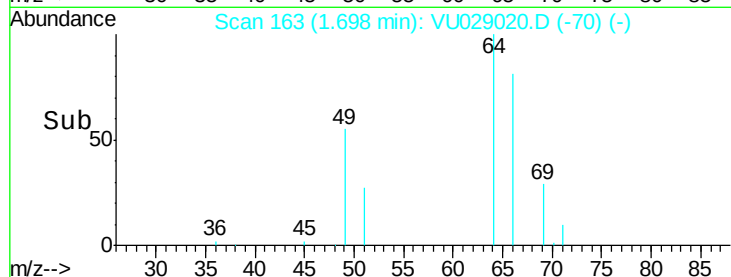
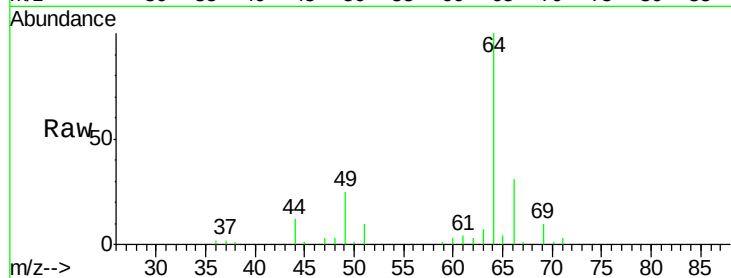
VSTD00552

Tot Ion: 64 Resp: 26946

Ion Ratio Lower Upper

64 100

66 31.0 22.6 42.0



#9

Trichlorofluoromethane

Concen: 4.625 ug/L

RT: 1.88 min Scan# 221

Delta R.T. -0.00 min

Lab File: VU029020.D

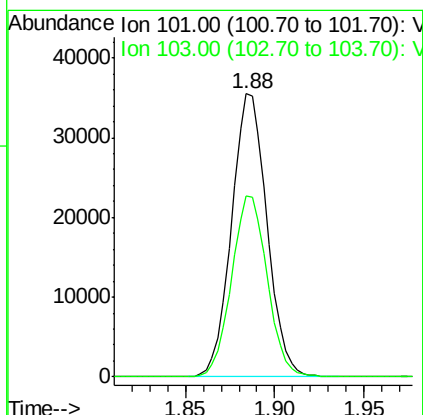
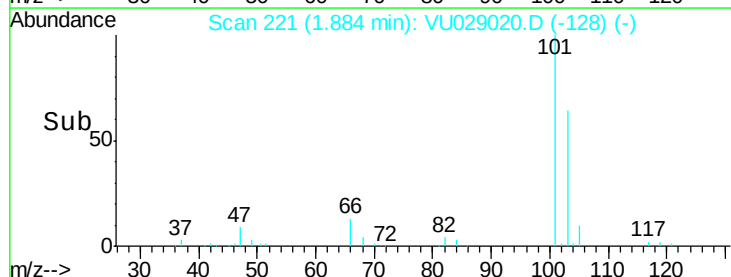
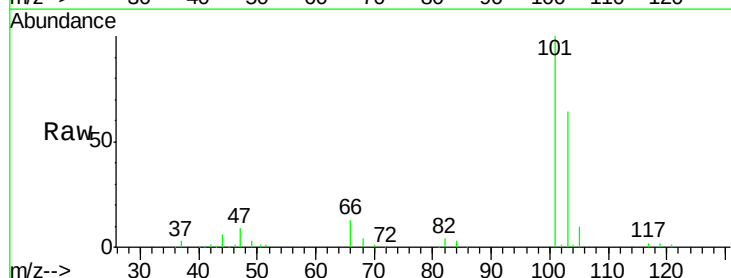
Acq: 04 Jan 2019 12:03

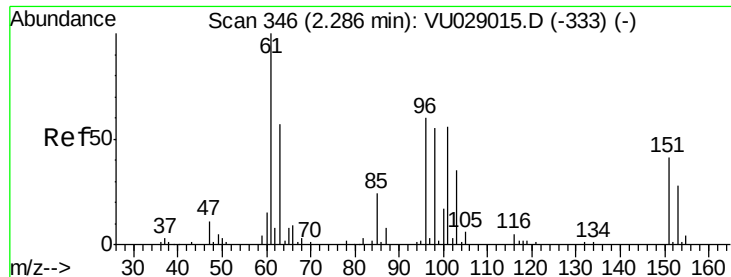
Tgt Ion: 101 Resp: 49129

Ion Ratio Lower Upper

101 100

103 64.4 51.2 76.8





#10

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

Concen: 4.664 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

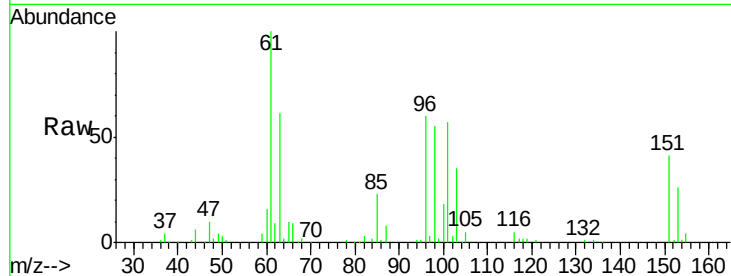
Tot Ion:101 Resp: 31971

Ion Ratio Lower Upper

101 100

85 41.5 33.8 50.6

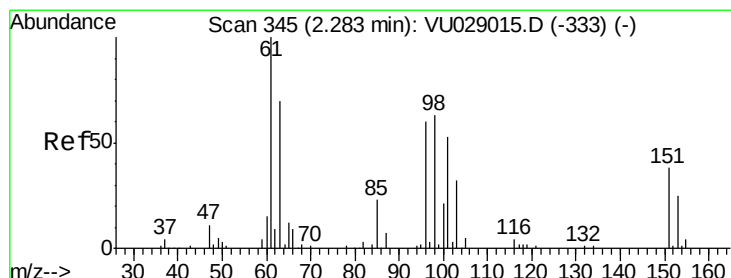
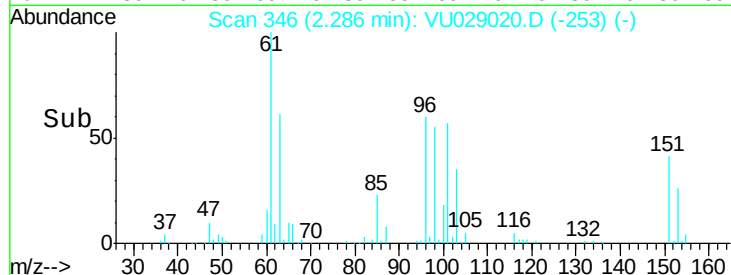
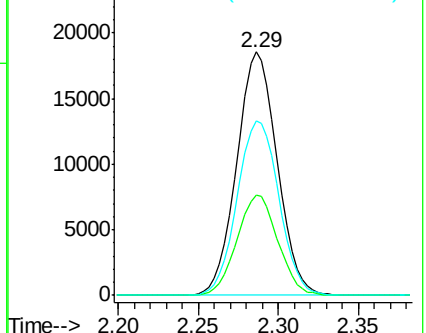
151 74.4 60.9 91.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.635 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

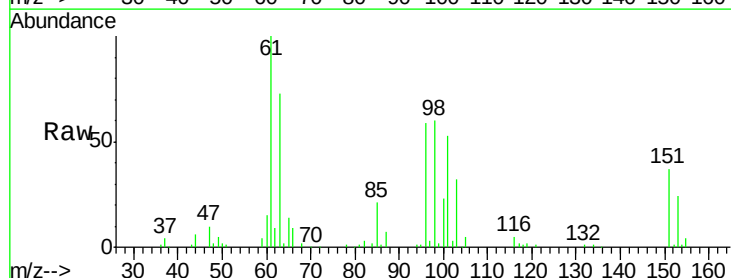
Tgt Ion: 96 Resp: 30896

Ion Ratio Lower Upper

96 100

61 168.3 110.5 205.3

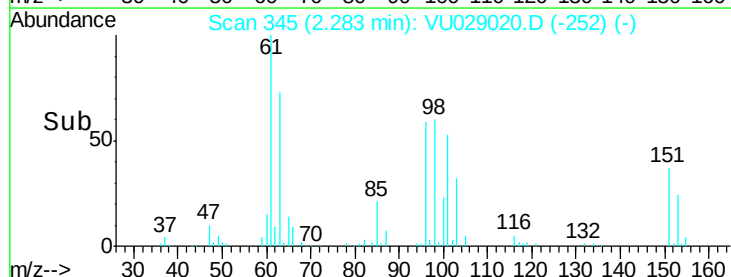
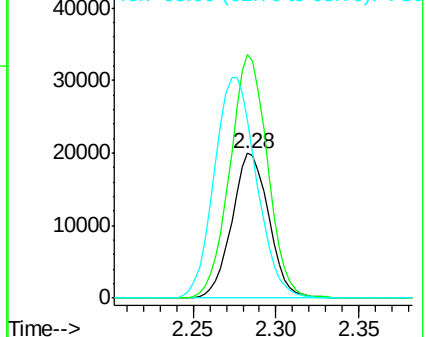
63 123.2 67.6 125.6

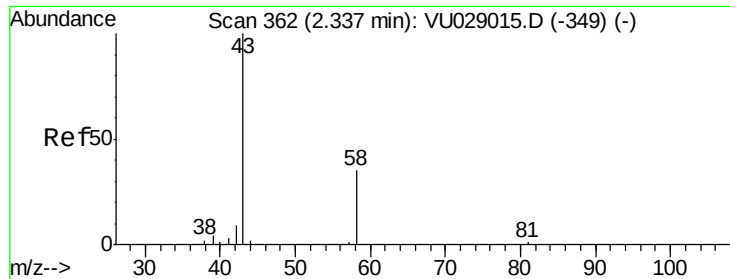


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.582 ug/L

RT: 2.34 min Scan# 362

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

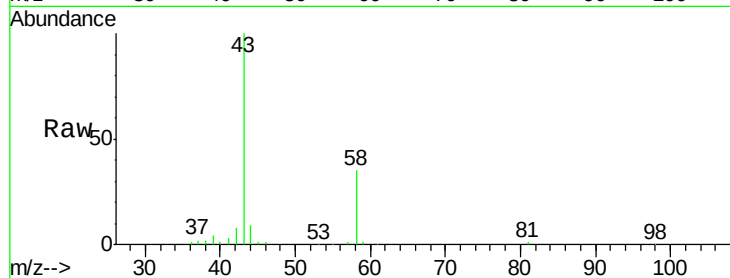
VSTD00552

Tot Ion: 43 Resp: 49976

Ion Ratio Lower Upper

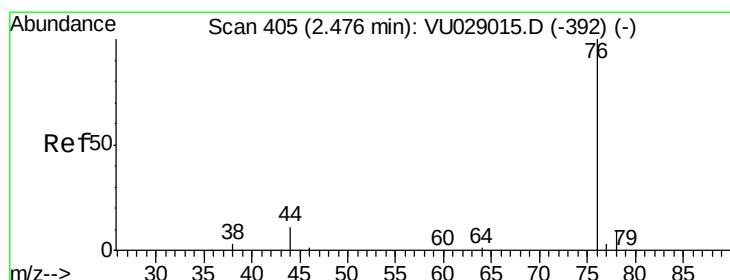
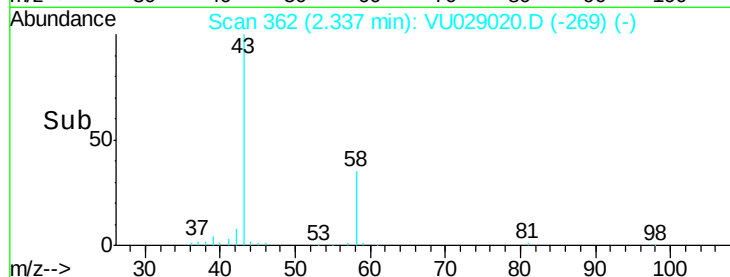
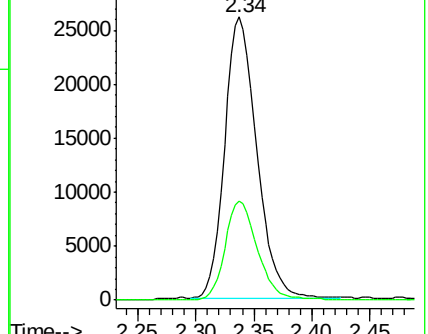
43 100

58 35.8 0.0 71.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.625 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU029020.D

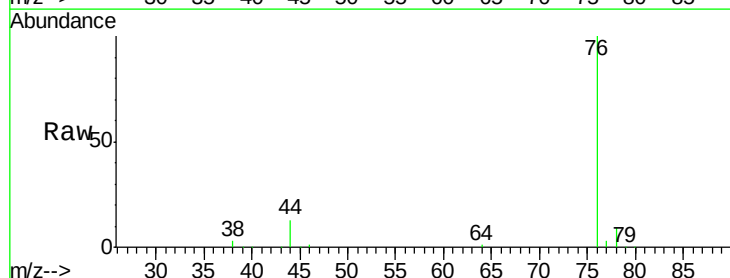
Acq: 04 Jan 2019 12:03

Tgt Ion: 76 Resp: 107707

Ion Ratio Lower Upper

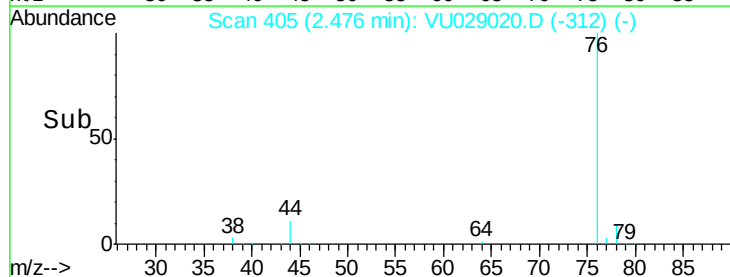
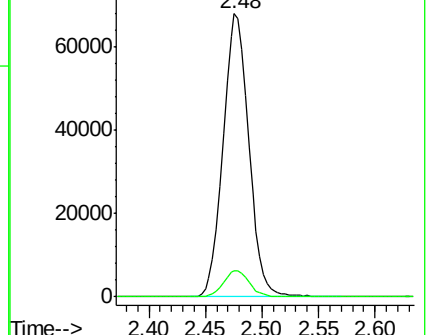
76 100

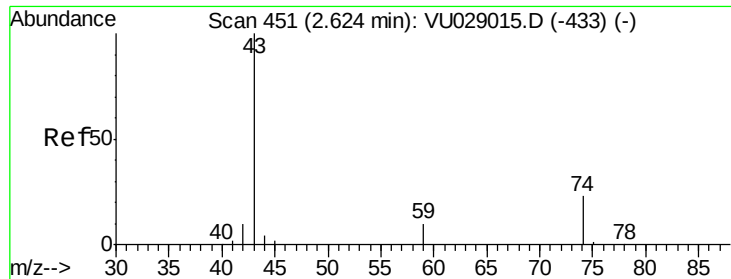
78 9.4 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

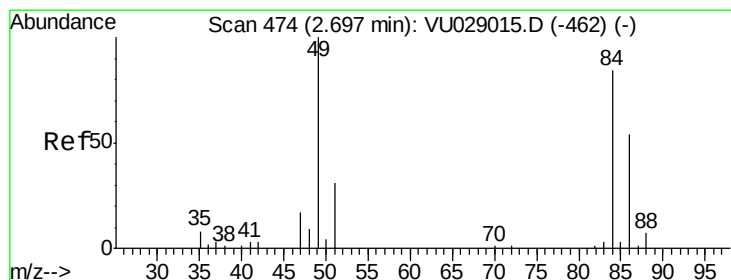
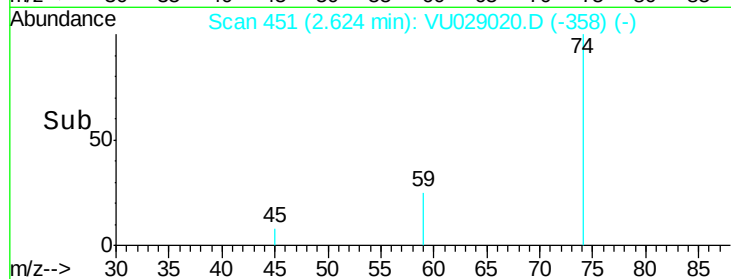
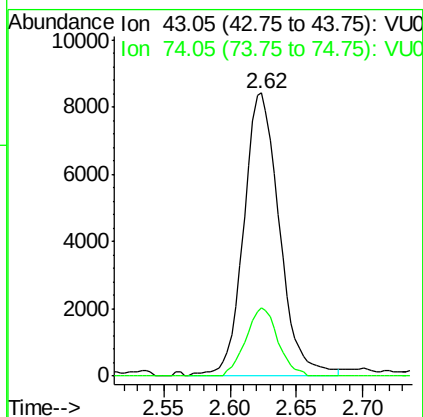
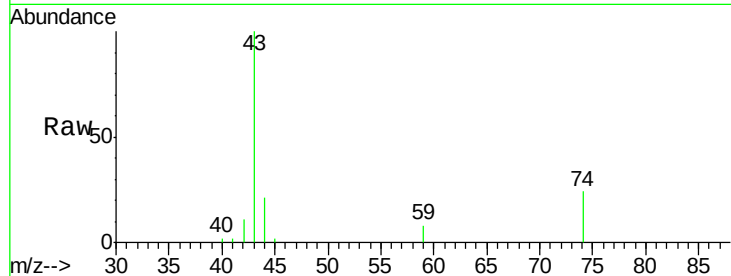




#15
Methvl Acetate
Concen: 5.138 ug/L
RT: 2.62 min Scan# 451
Delta R.T. -0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

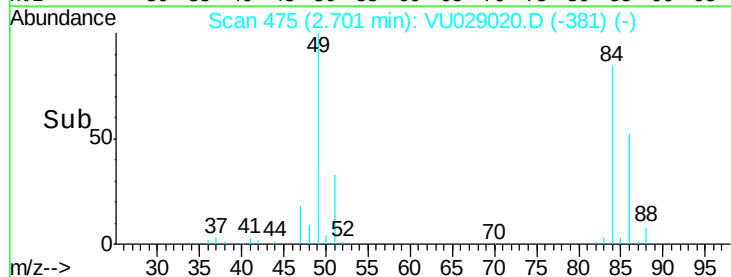
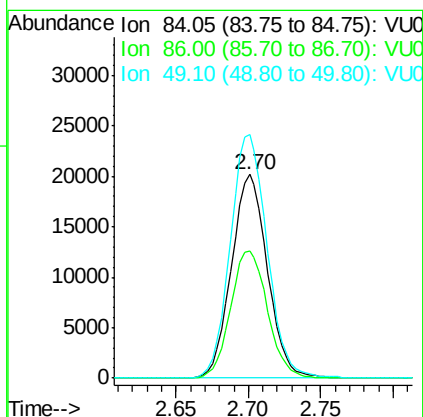
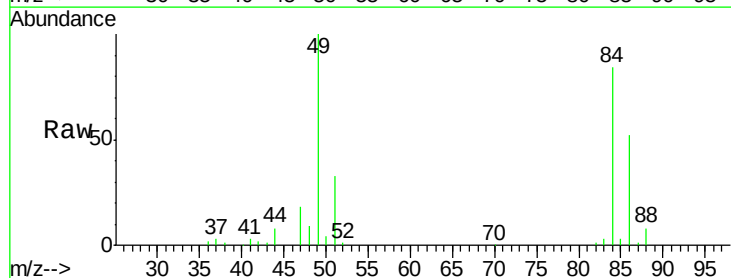
Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

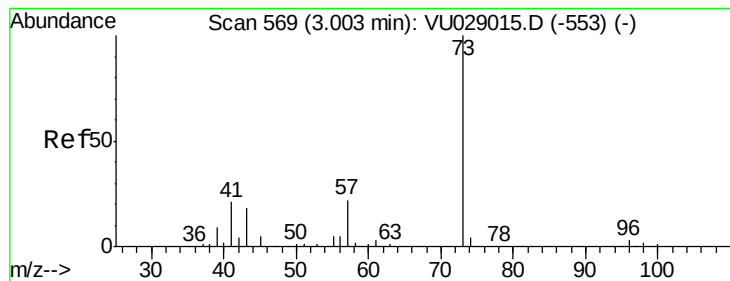
Tot Ion: 43 Resp: 15812
Ion Ratio Lower Upper
43 100
74 21.7 20.6 30.8



#16
Methylene chloride
Concen: 3.651 ug/L
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Tgt Ion: 84 Resp: 34841
Ion Ratio Lower Upper
84 100
86 62.6 45.6 84.6
49 119.7 79.7 148.1





#17

Methyl tert-butyl Ether

Concen: 4.740 ug/L

RT: 3.00 min Scan# 569

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

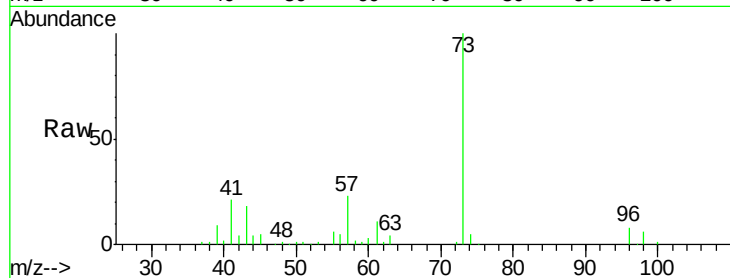
Tot Ion: 73 Resp: 77583

Ion Ratio Lower Upper

73 100

43 18.5 13.8 20.8

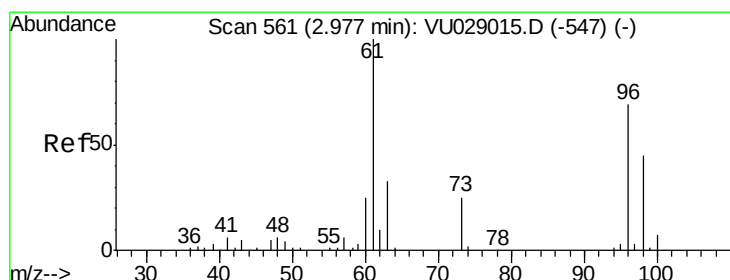
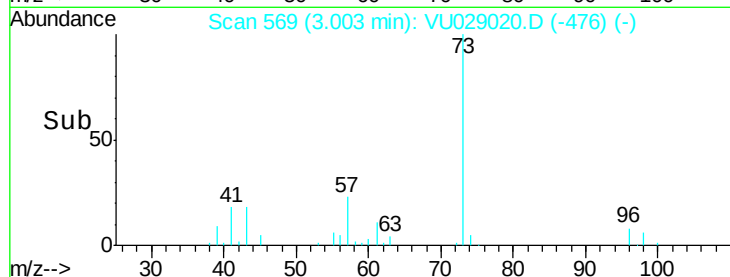
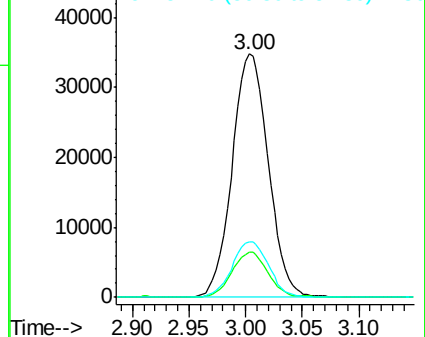
57 23.1 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 4.639 ug/L

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

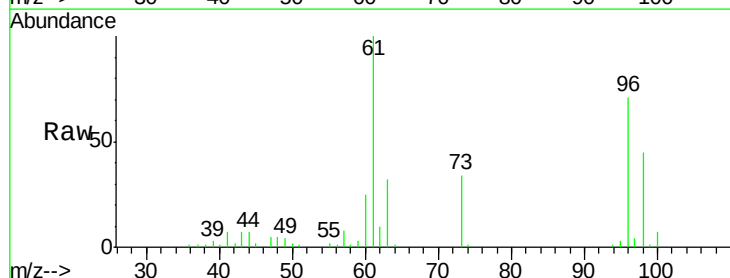
Tgt Ion: 96 Resp: 33949

Ion Ratio Lower Upper

96 100

61 140.0 96.6 179.4

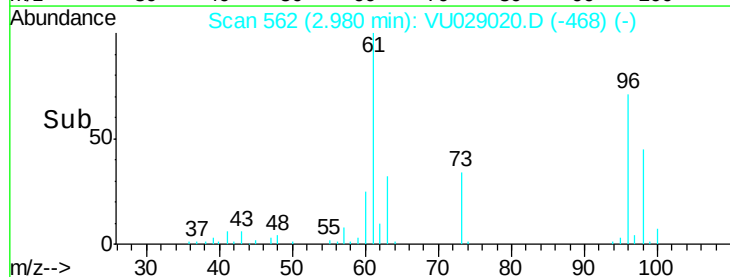
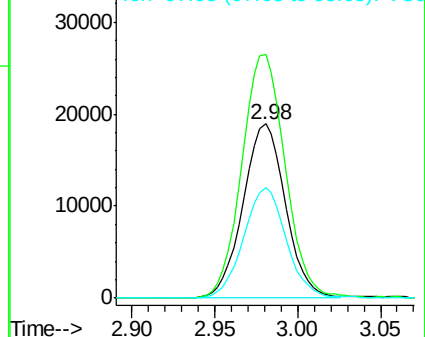
98 63.5 46.0 85.4

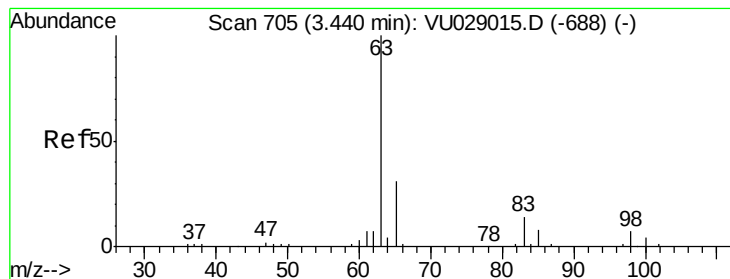


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 4.930 ug/L

RT: 3.44 min Scan# 705

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

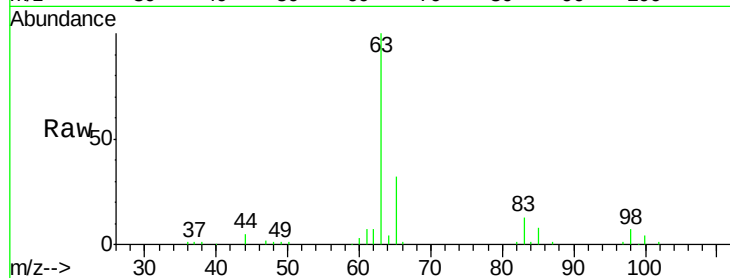
Tot Ion: 63 Resp: 61245

Ion Ratio Lower Upper

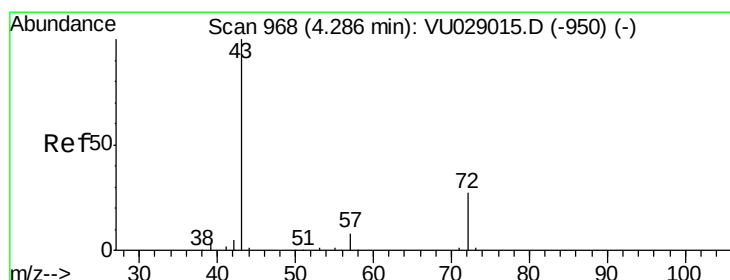
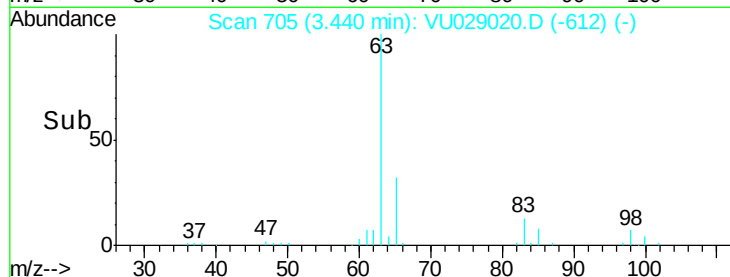
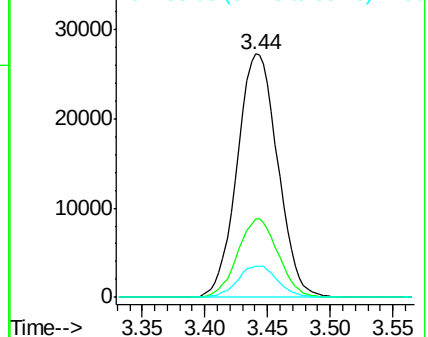
63 100

65 32.1 21.8 40.6

83 12.7 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0



#21

2-Butanone

Concen: 54.837 ug/L

RT: 4.29 min Scan# 968

Delta R.T. -0.00 min

Lab File: VU029020.D

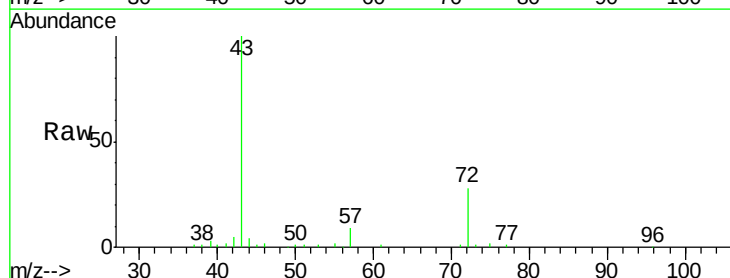
Acq: 04 Jan 2019 12:03

Tgt Ion: 43 Resp: 86169

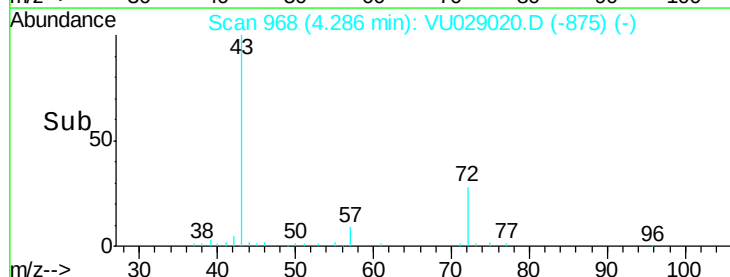
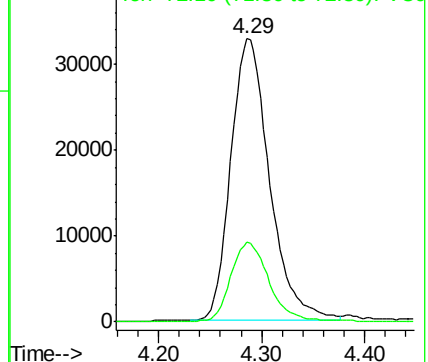
Ion Ratio Lower Upper

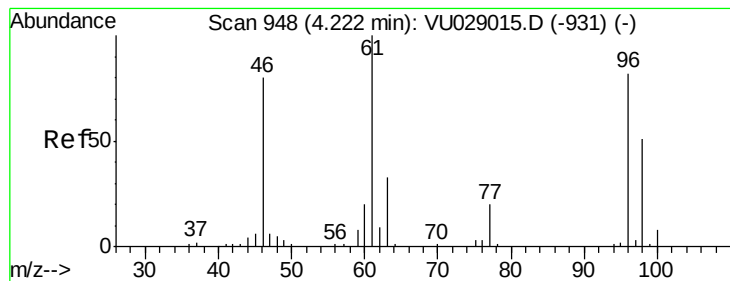
43 100

72 26.9 15.2 45.5



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 72.10 (71.80 to 72.80): VU0



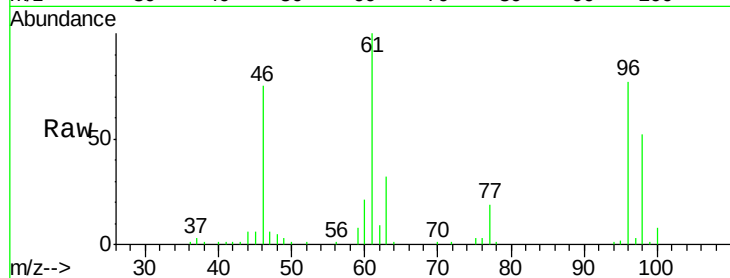


#22

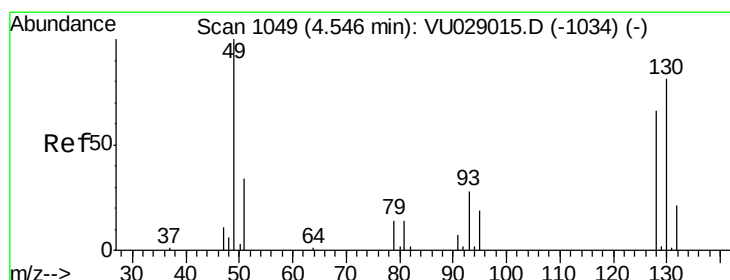
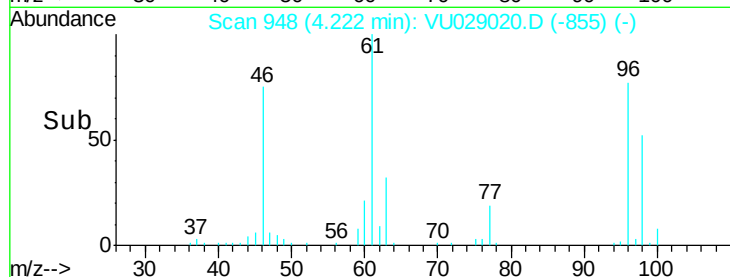
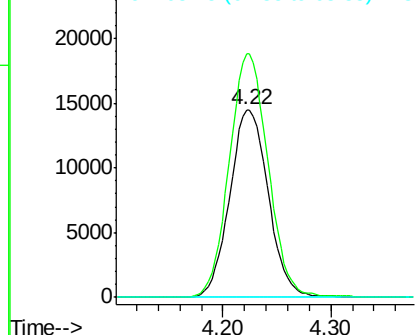
cis-1,2-Dichloroethene
Concen: 4.765 ug/L
RT: 4.22 min Scan# 948
Delta R.T. -0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tot Ion: 96 Resp: 36073
Ion Ratio Lower Upper
96 100
61 129.7 84.7 157.3
68 0.0 0.0 0.0



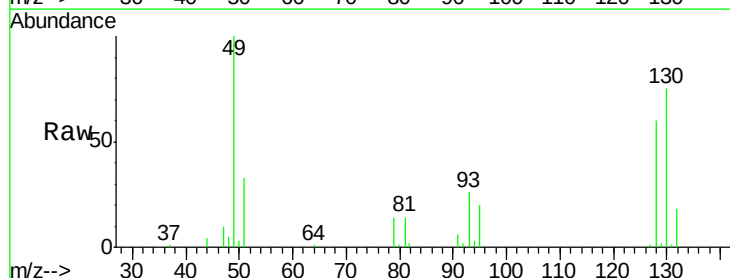
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



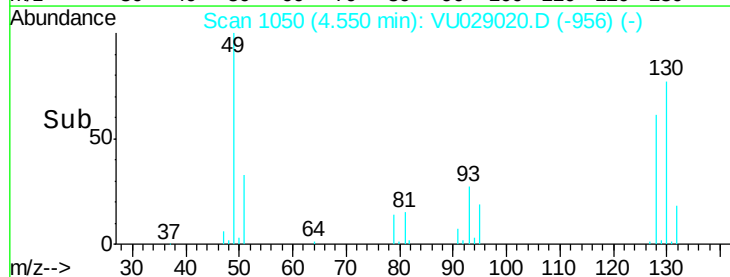
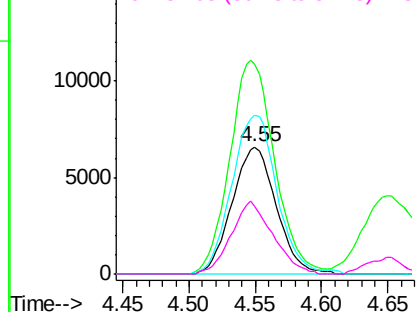
#23

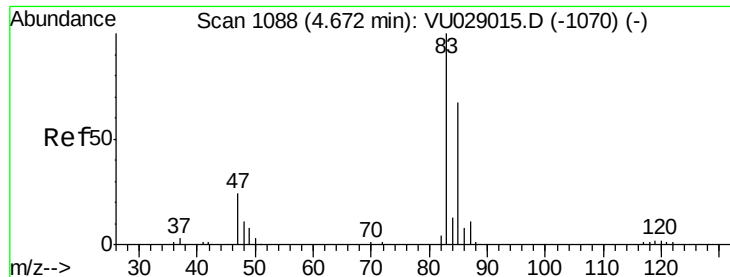
Bromochloromethane
Concen: 4.959 ug/L
RT: 4.55 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Tgt Ion: 128 Resp: 15235
Ion Ratio Lower Upper
128 100
49 165.7 109.3 202.9
130 125.0 88.7 164.7
51 53.9 38.8 58.2



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

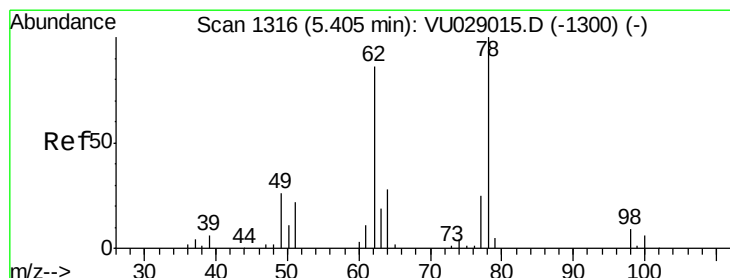
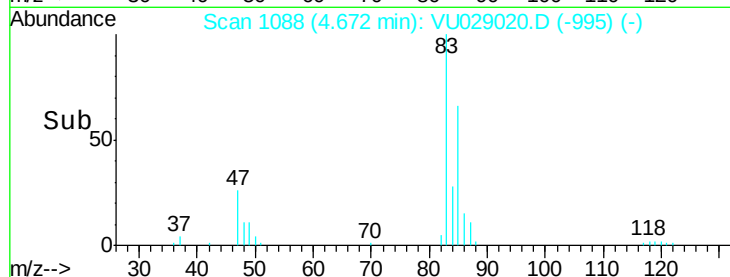
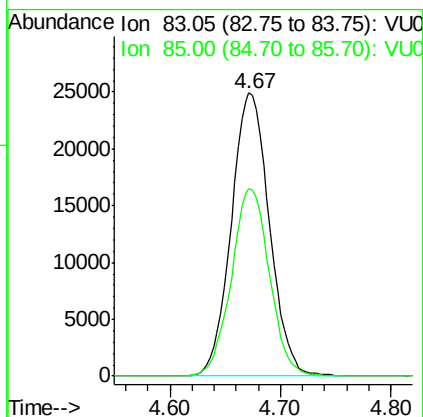
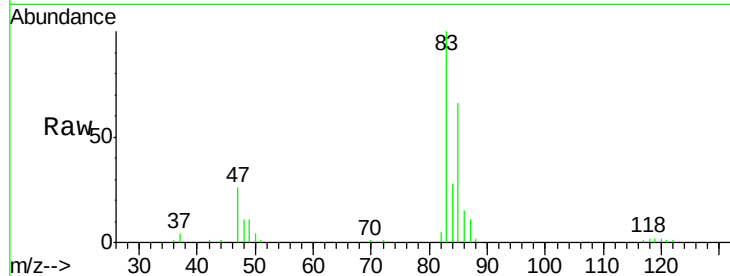




#25
Chloroform
Concen: 5.050 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

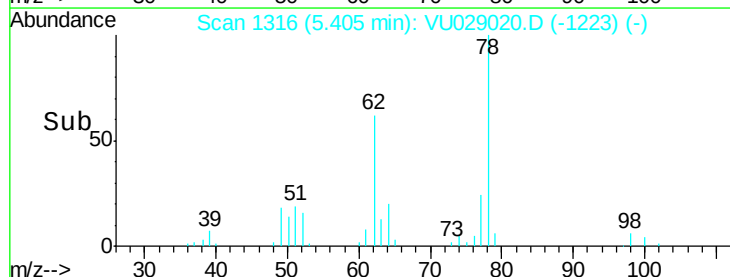
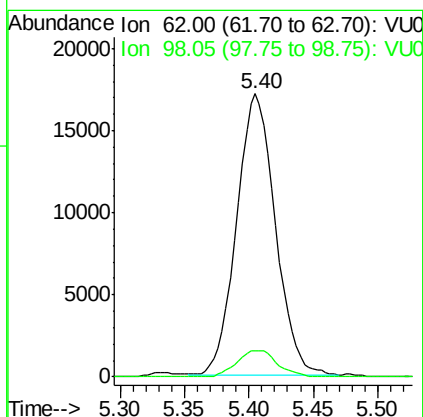
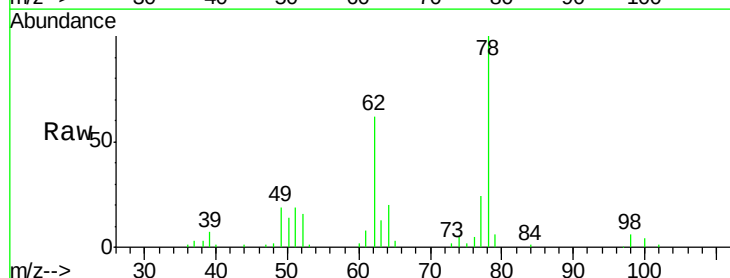
Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

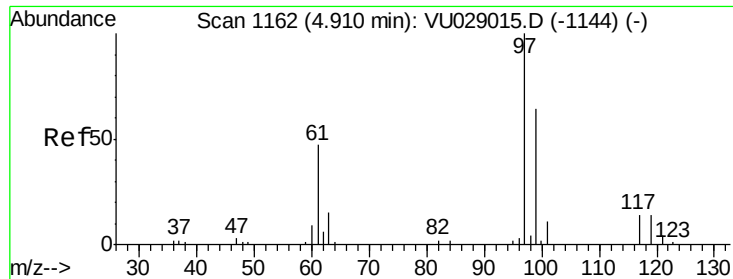
Tot Ion: 83 Resp: 59610
Ion Ratio Lower Upper
83 100
85 66.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 5.108 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Tgt Ion: 62 Resp: 35669
Ion Ratio Lower Upper
62 100
98 9.4 8.2 12.2

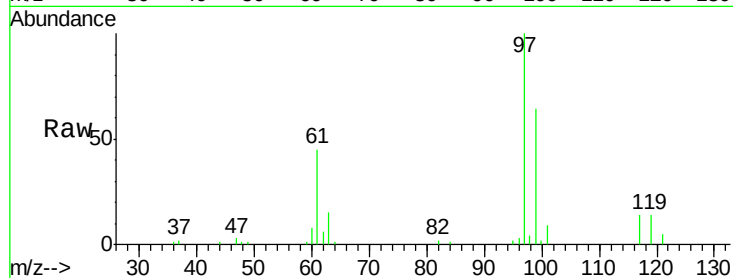




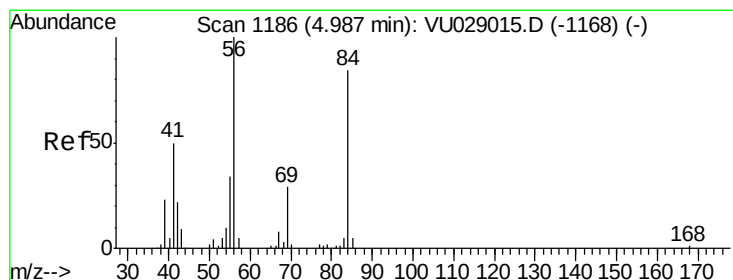
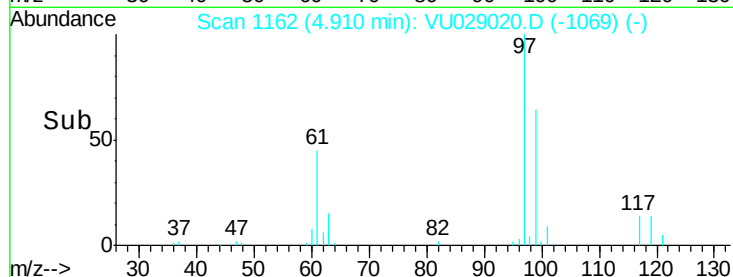
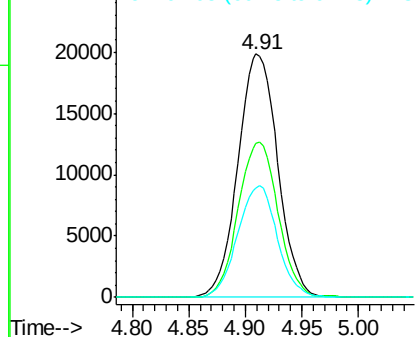
#29
1,1,1-Trichloroethane
Concen: 5.052 ug/L
RT: 4.91 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tot Ion: 97 Resp: 48681
Ion Ratio Lower Upper
97 100
99 63.9 51.6 77.4
61 45.6 34.1 51.1

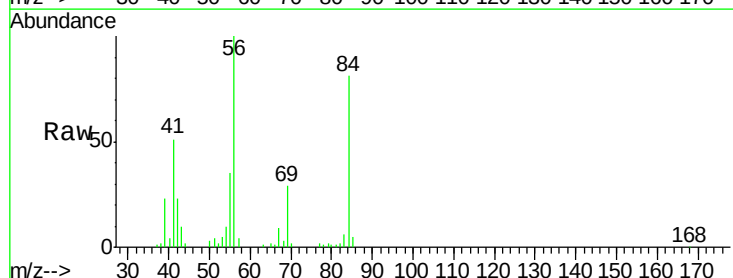


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

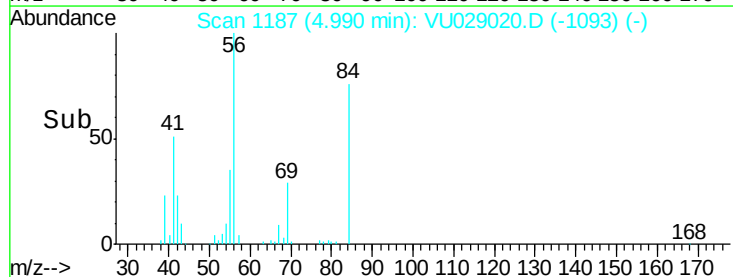
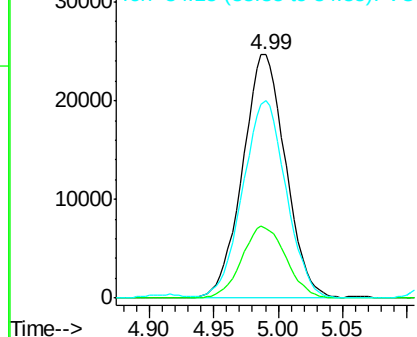


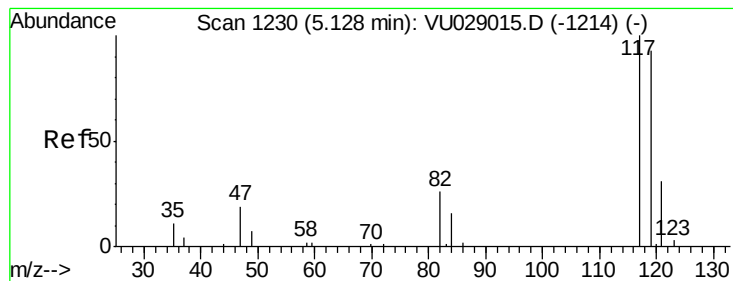
#30
Cyclohexane
Concen: 4.960 ug/L
RT: 4.99 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Tgt Ion: 56 Resp: 57264
Ion Ratio Lower Upper
56 100
69 30.2 24.8 37.2
84 82.1 69.1 103.7



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.062 ug/L

RT: 5.13 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

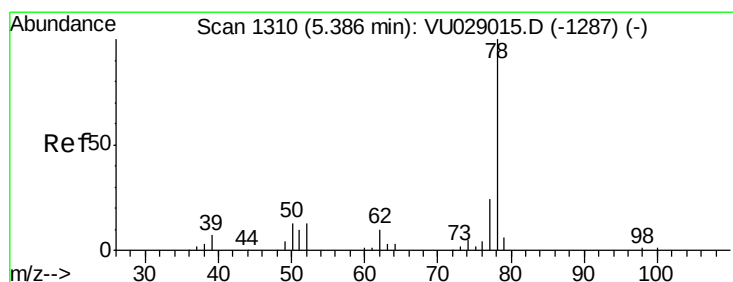
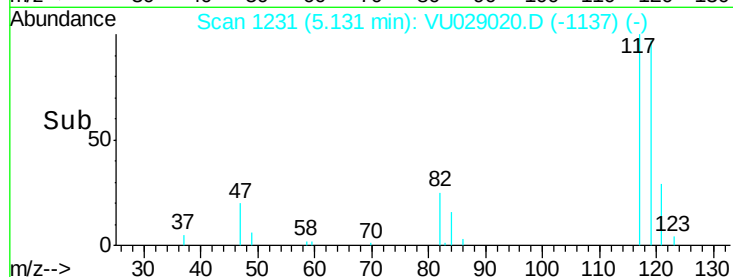
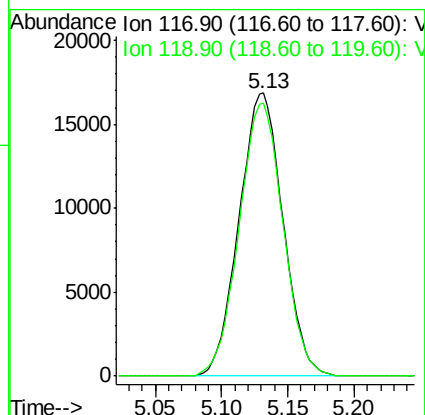
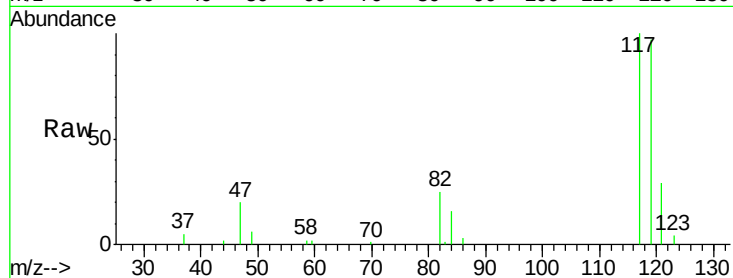
VSTD00552

Tot Ion:117 Resp: 38840

Ion Ratio Lower Upper

117 100

119 96.6 75.4 113.2



#33

Benzene

Concen: 5.080 ug/L

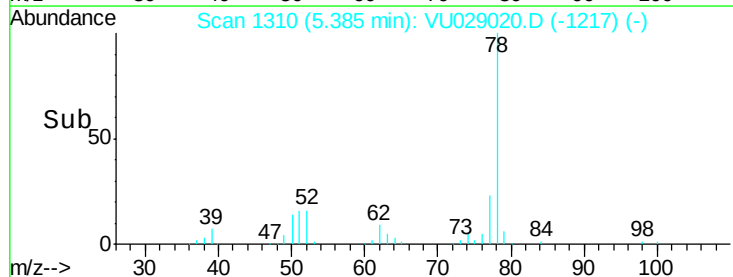
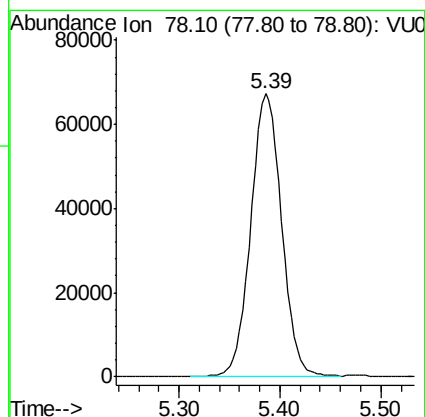
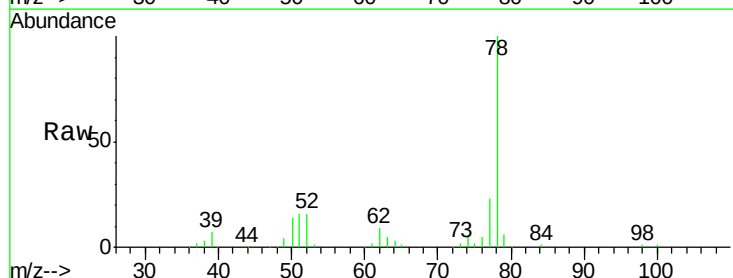
RT: 5.39 min Scan# 1310

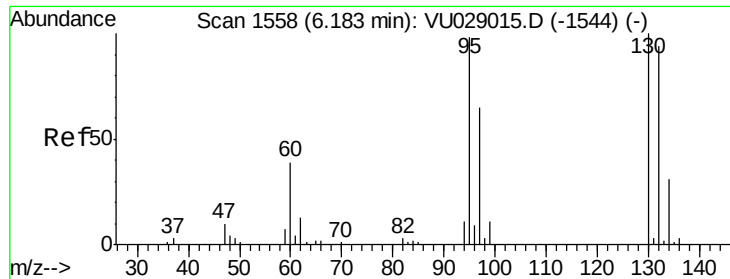
Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Tgt Ion: 78 Resp: 142520





#34

Trichloroethene

Concen: 4.930 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

Tot Ion: 95 Resp: 35367

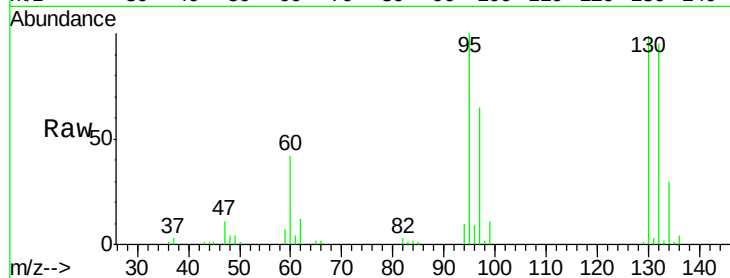
Ion Ratio Lower Upper

95 100

97 65.3 45.4 84.2

132 95.4 70.8 131.6

130 98.6 70.7 131.3

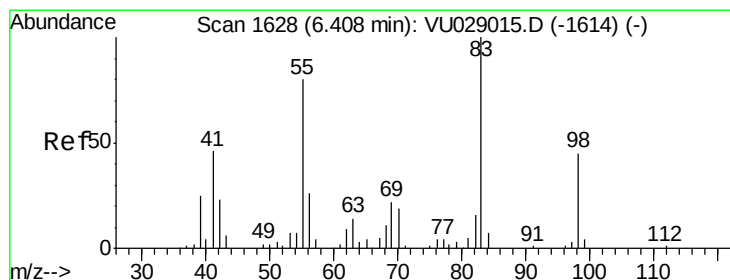
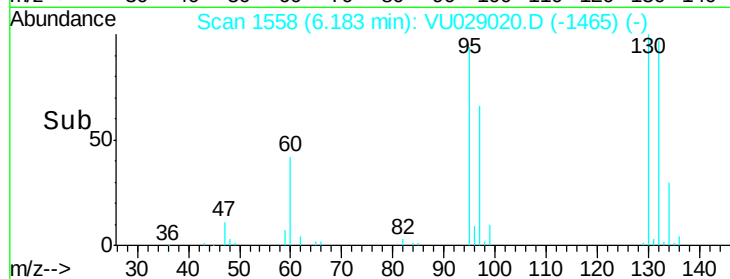
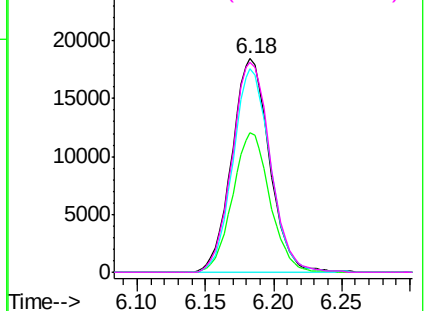


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.734 ug/L

RT: 6.41 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

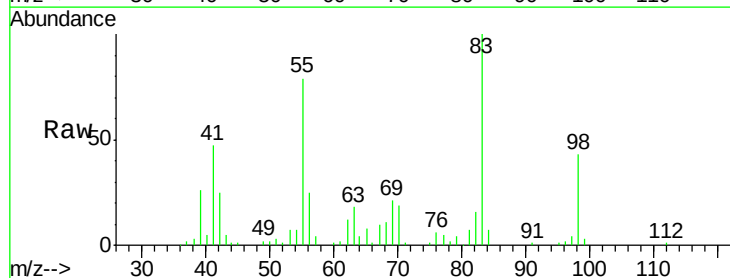
Tgt Ion: 83 Resp: 58335

Ion Ratio Lower Upper

83 100

55 79.6 59.8 89.6

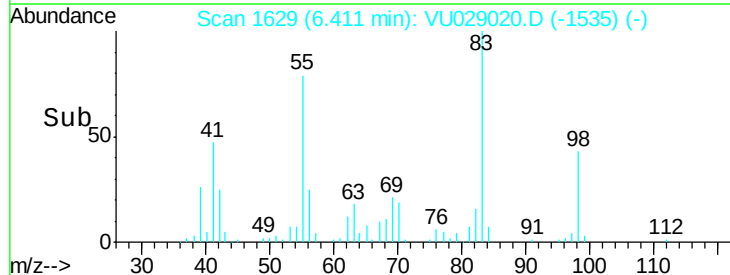
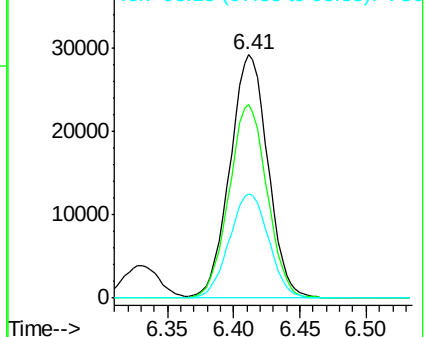
98 44.4 37.0 55.6

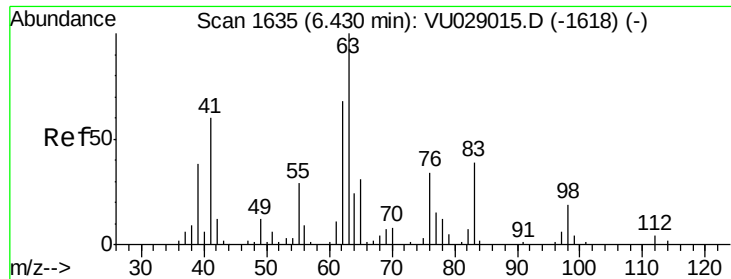


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.460 ug/L

RT: 6.43 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

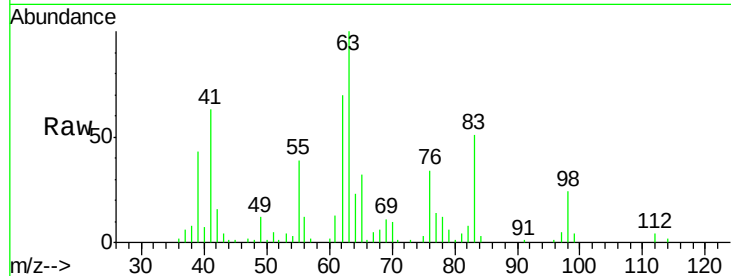
VSTD00552

Tot Ion: 63 Resp: 39024

Ion Ratio Lower Upper

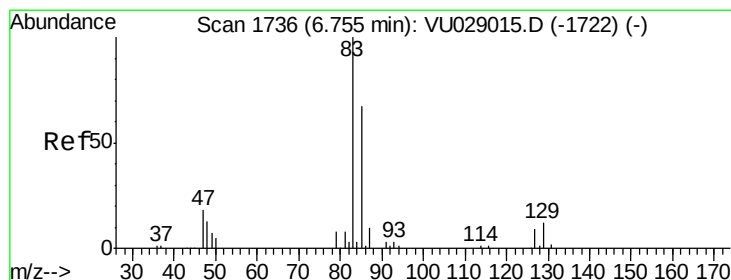
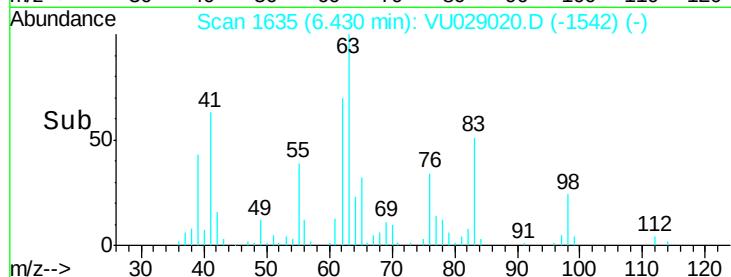
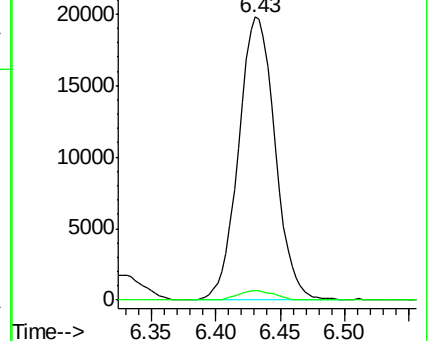
63 100

112 3.3 3.0 4.4



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 5.222 ug/L

RT: 6.76 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

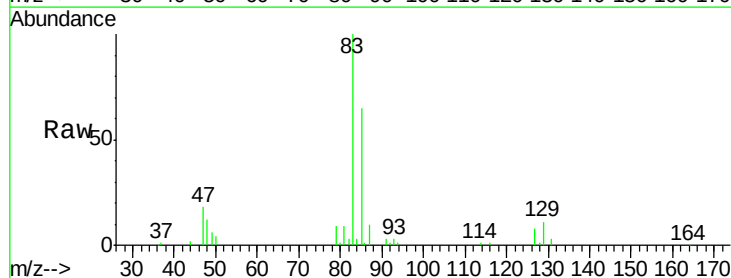
Tgt Ion: 83 Resp: 42023

Ion Ratio Lower Upper

83 100

85 65.4 45.1 83.9

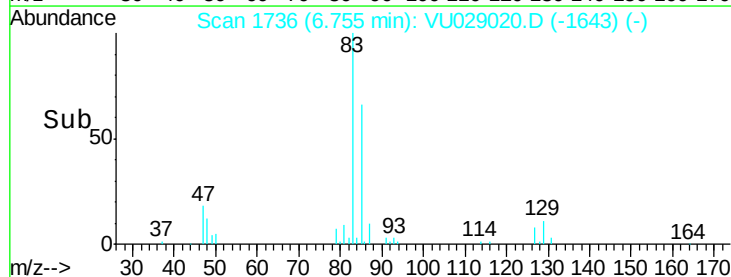
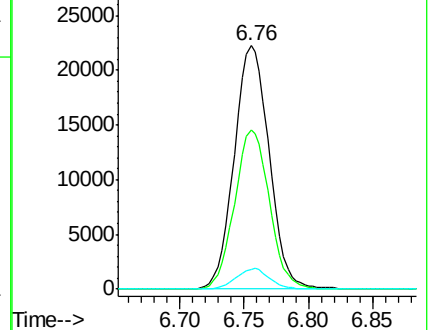
127 8.2 6.8 10.2

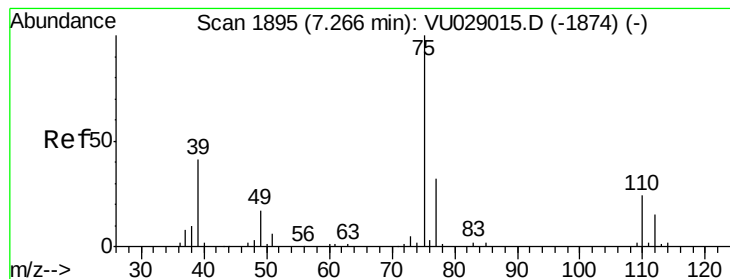


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V



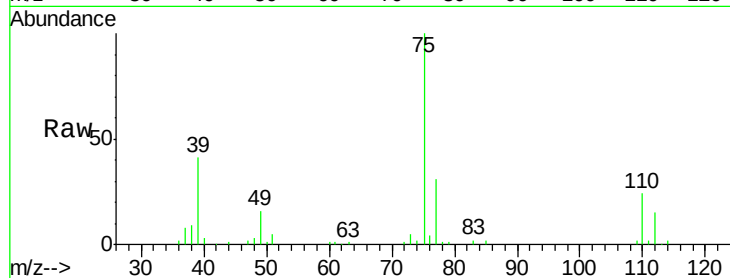


#39

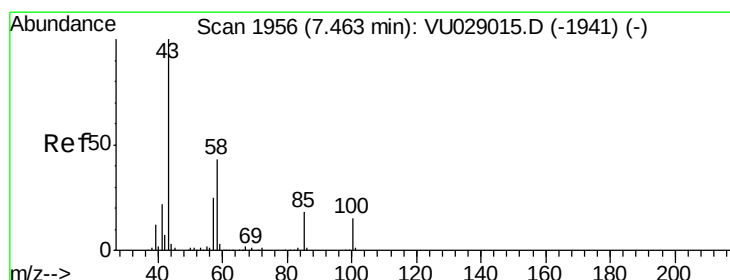
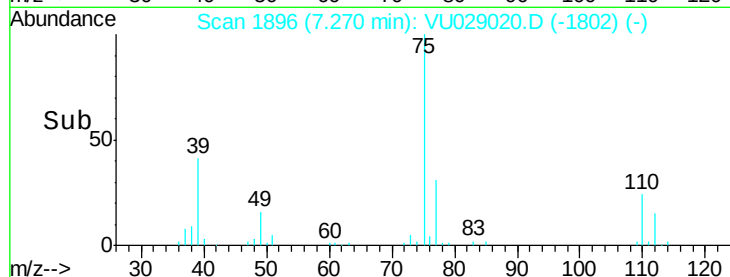
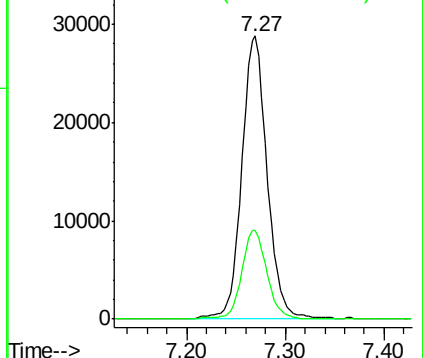
cis-1,3-Dichloropropene
 Concen: 5.004 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU029020.D
 Acq: 04 Jan 2019 12:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

Tot Ion: 75 Resp: 51287
 Ion Ratio Lower Upper
 75 100
 77 31.4 21.5 39.9



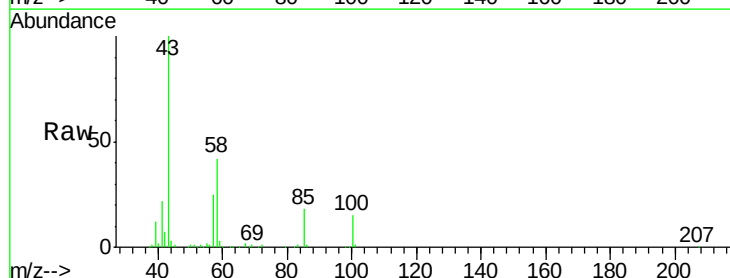
Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 77.05 (76.75 to 77.75): VU0



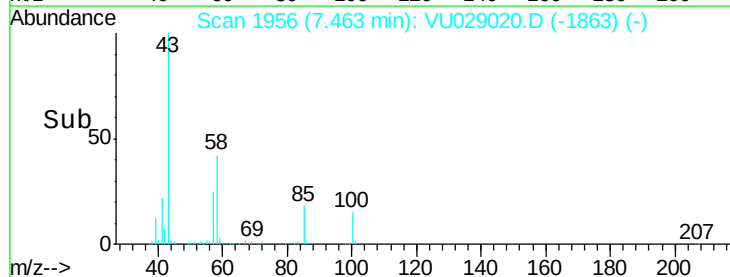
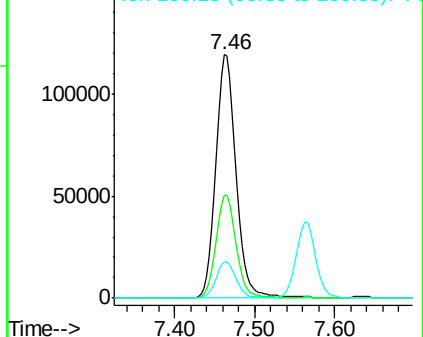
#40

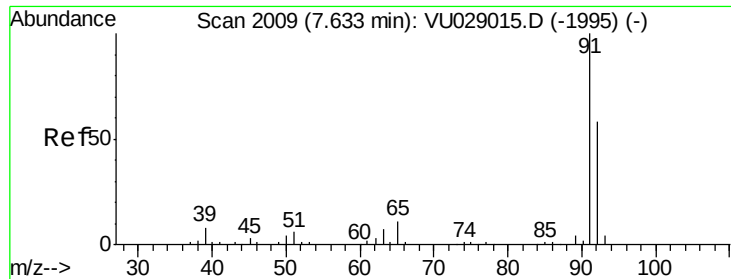
4-Methyl-2-pentanone
 Concen: 55.662 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VU029020.D
 Acq: 04 Jan 2019 12:03

Tgt Ion: 43 Resp: 211704
 Ion Ratio Lower Upper
 43 100
 58 41.7 34.6 51.8
 100 14.8 13.4 20.0



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0
 Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 4.946 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

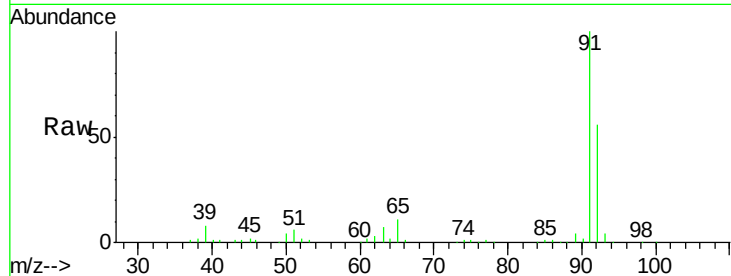
VSTD00552

Tot Ion: 91 Resp: 148536

Ion Ratio Lower Upper

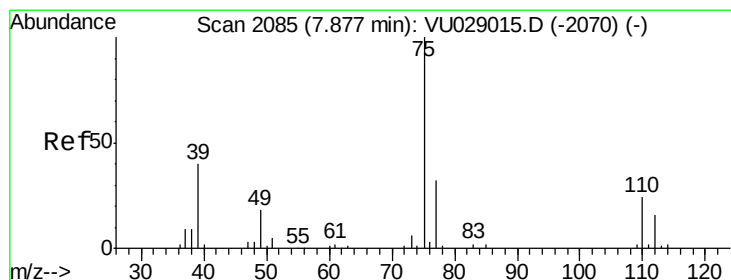
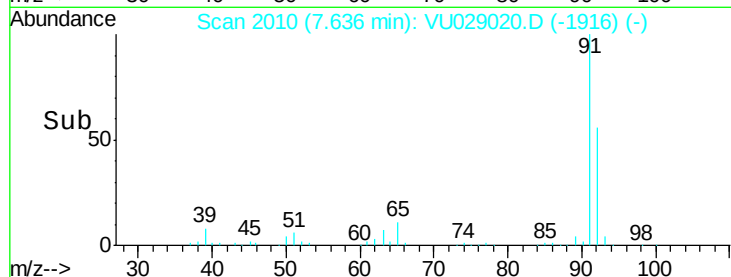
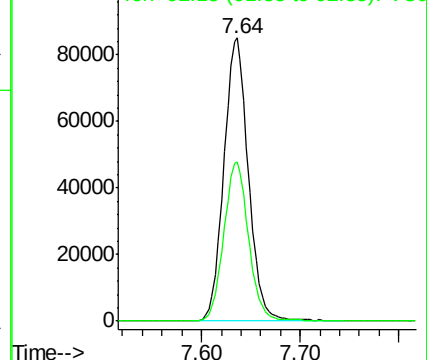
91 100

92 56.4 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 5.237 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU029020.D

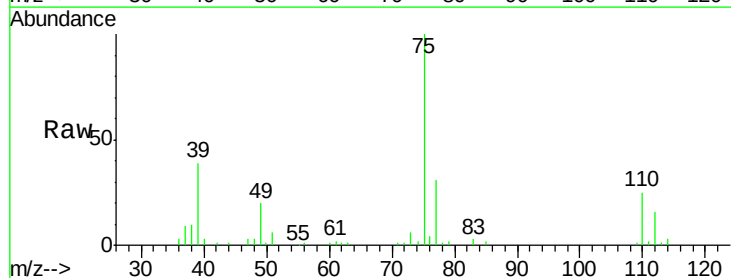
Acq: 04 Jan 2019 12:03

Tgt Ion: 75 Resp: 41823

Ion Ratio Lower Upper

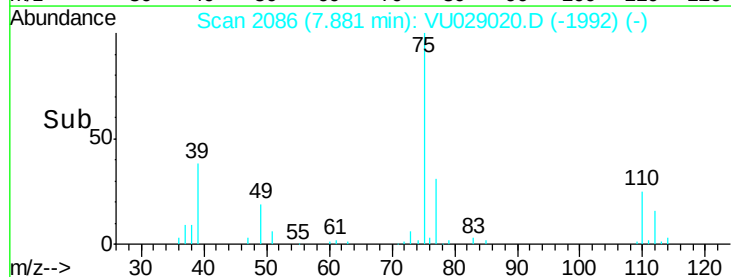
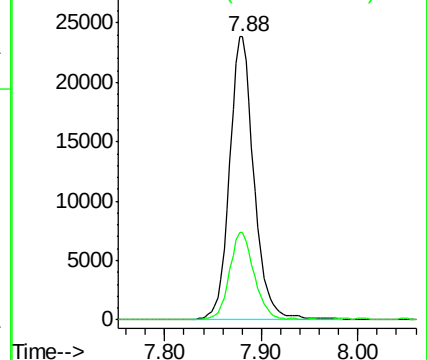
75 100

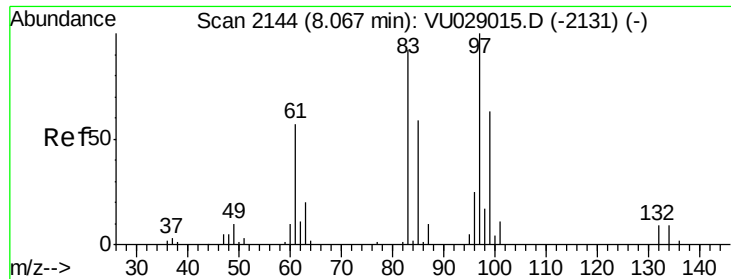
77 30.9 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

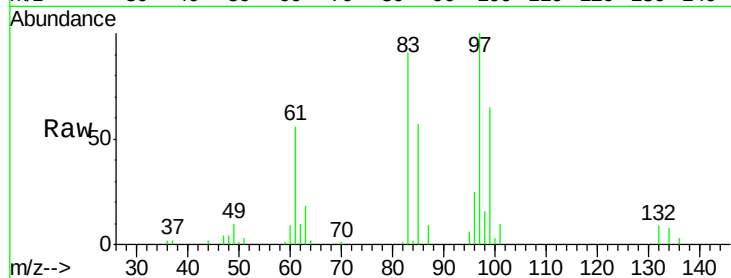




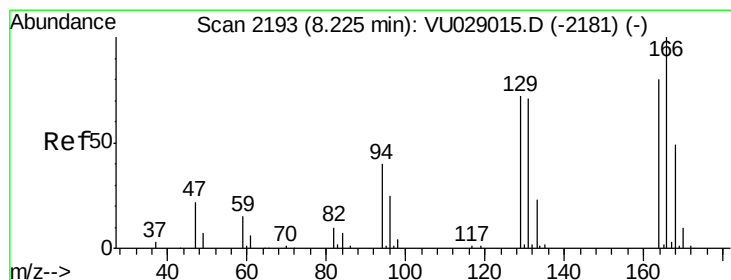
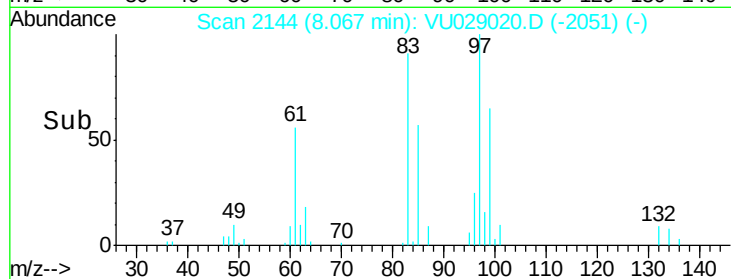
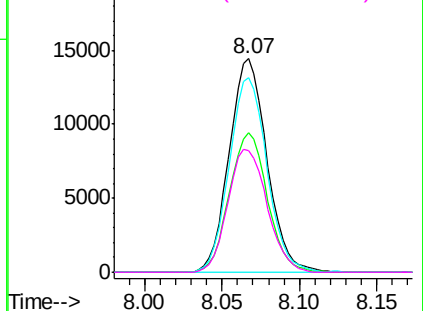
#45
 1,1,2-Trichloroethane
 Concen: 5.036 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU029020.D
 Acq: 04 Jan 2019 12:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

Tot Ion:	97	Resp:	24496
Ion	Ratio	Lower	Upper
97	100		
99	65.1	42.4	78.6
83	90.9	59.6	110.6
85	56.8	39.0	72.4

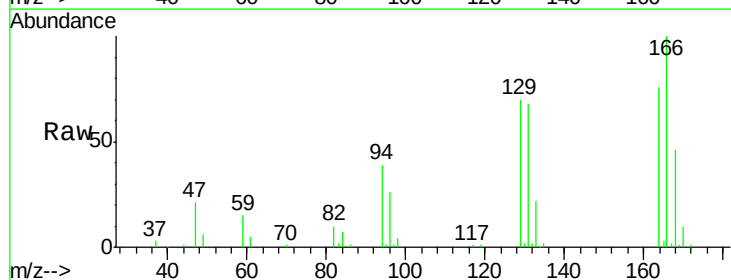


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

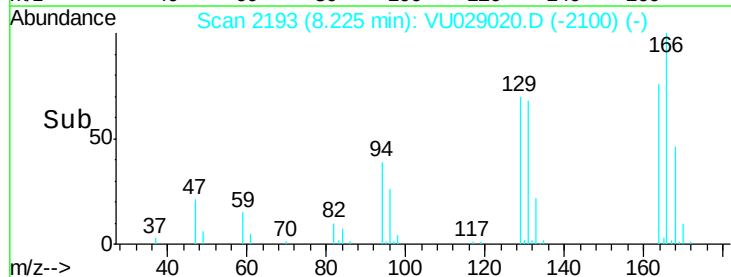
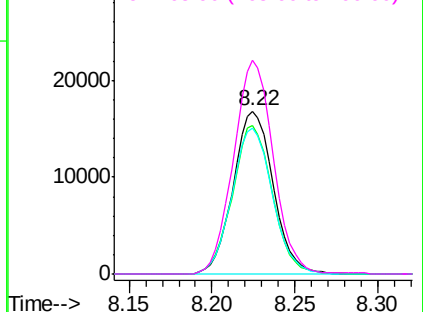


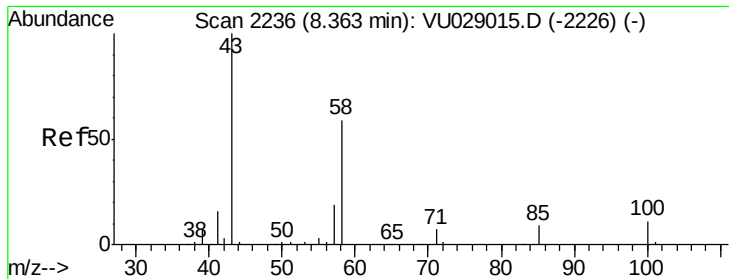
#47
 Tetrachloroethene
 Concen: 4.750 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VU029020.D
 Acq: 04 Jan 2019 12:03

Tgt Ion:	164	Resp:	28221
Ion	Ratio	Lower	Upper
164	100		
129	91.5	65.3	121.3
131	89.3	62.9	116.7
166	131.1	86.7	160.9



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

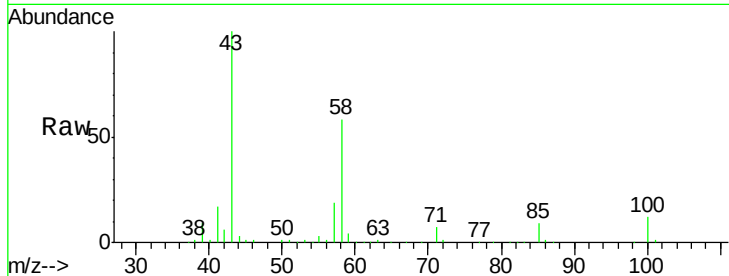




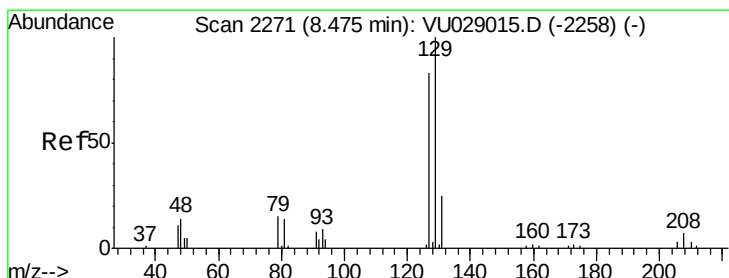
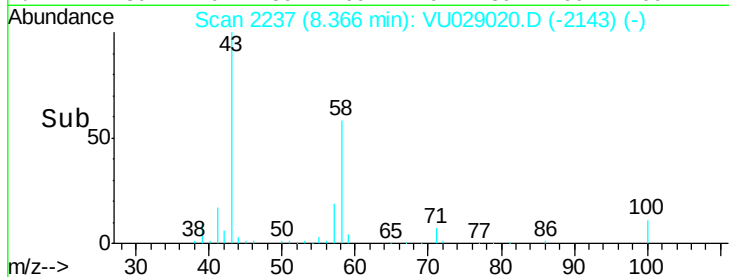
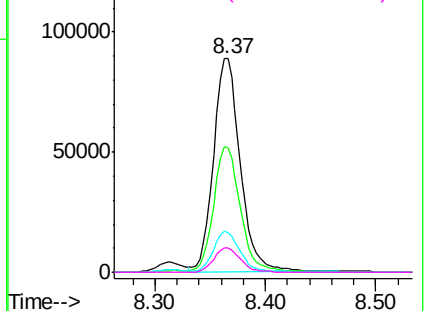
#48
2-Hexanone
Concen: 56.822 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tot Ion: 43 Resp: 149495
Ion Ratio Lower Upper
43 100
58 58.4 48.8 73.2
57 19.3 16.0 24.0
100 11.5 10.2 15.4

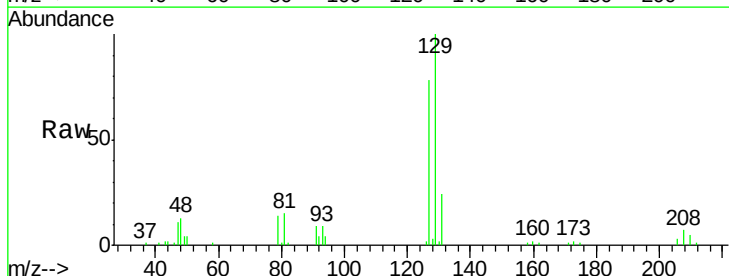


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

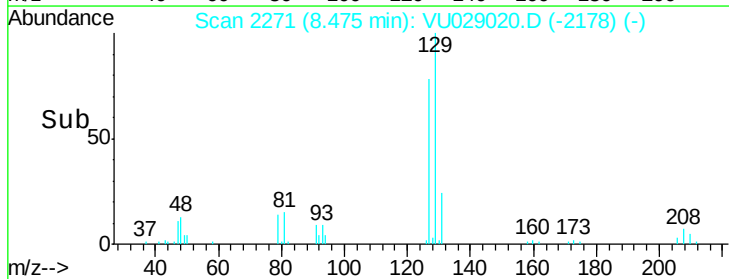
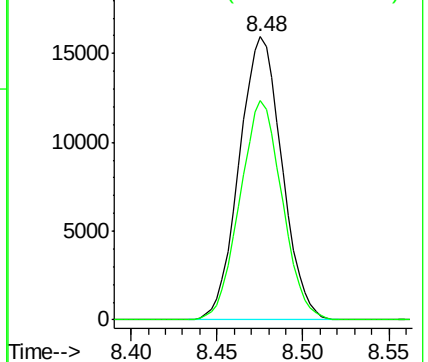


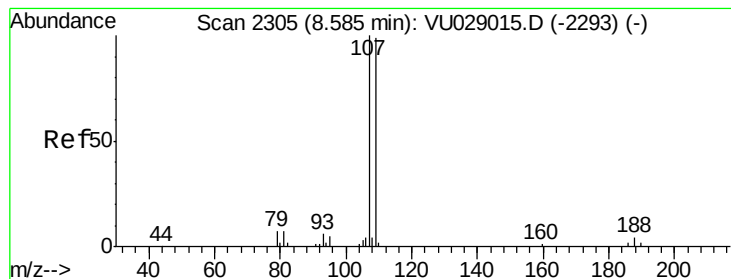
#49
Dibromochloromethane
Concen: 5.337 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Tgt Ion: 129 Resp: 27563
Ion Ratio Lower Upper
129 100
127 77.5 54.4 101.0



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 5.129 ug/L

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

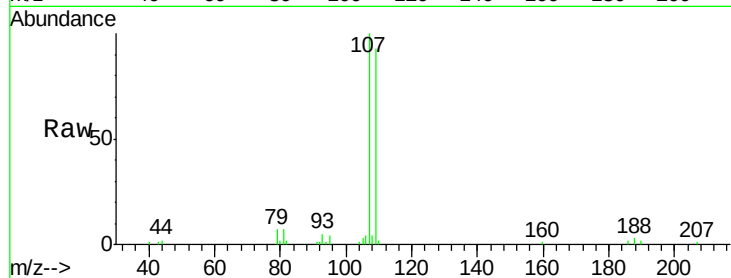
Tot Ion:107 Resp: 23336

Ion Ratio Lower Upper

107 100

109 92.6 64.0 119.0

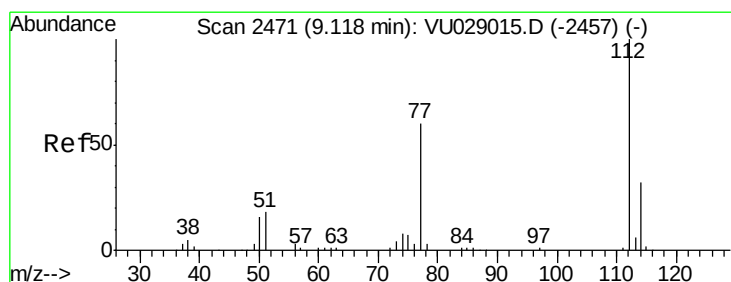
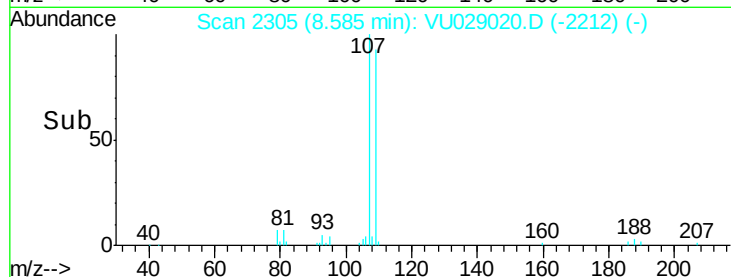
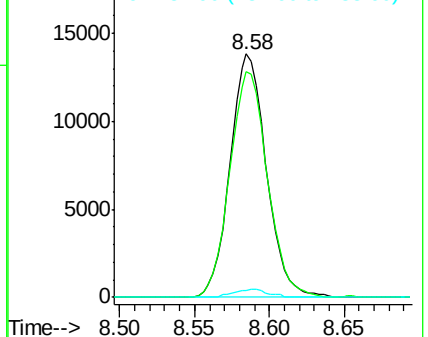
188 3.0 3.0 4.4



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.821 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

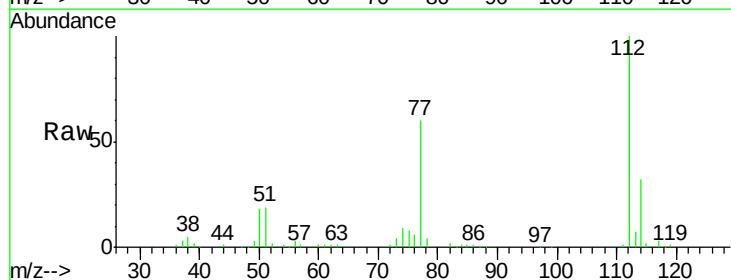
Tgt Ion:112 Resp: 90820

Ion Ratio Lower Upper

112 100

114 32.4 22.2 41.2

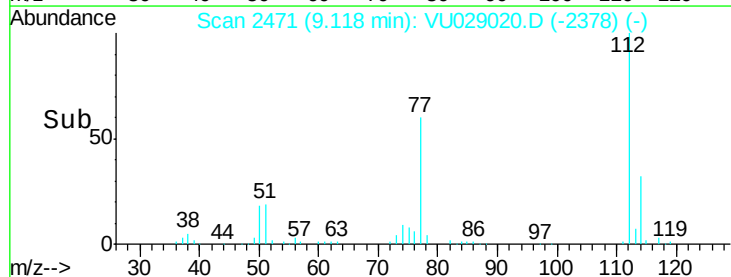
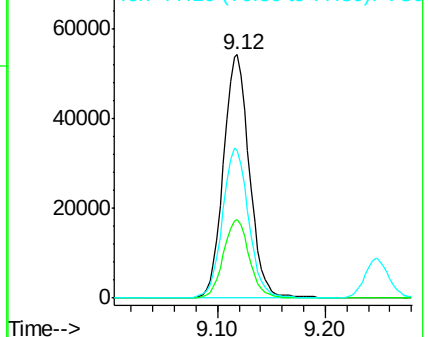
77 60.4 44.9 67.3

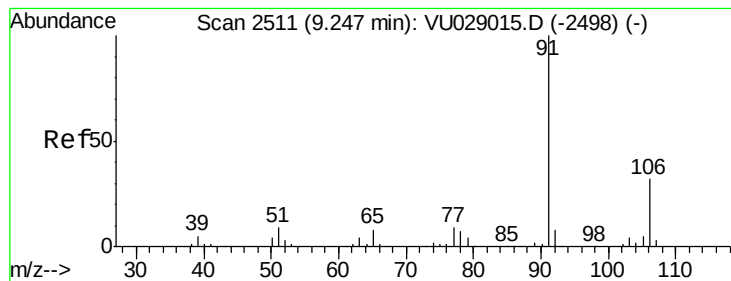


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0





#52

Ethylbenzene

Concen: 4.815 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

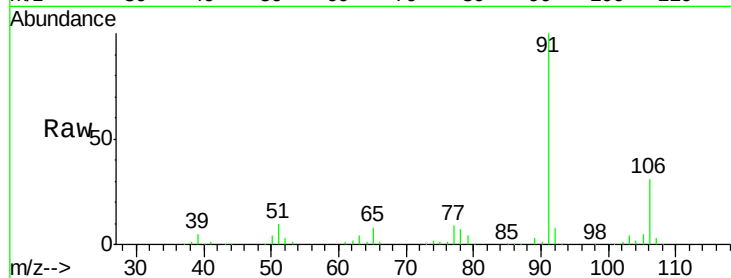
VSTD00552

Tot Ion: 91 Resp: 153408

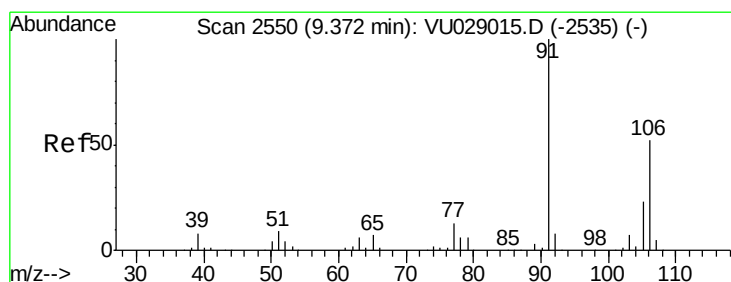
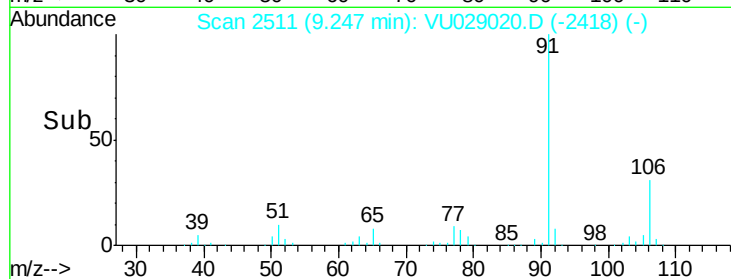
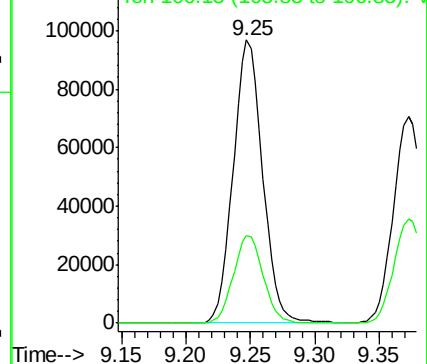
Ion Ratio Lower Upper

91 100

106 31.1 22.7 42.1



Abundance Ion 91.15 (90.85 to 91.85): VU029015.D (-2498) (-)



#53

m,p-xylene

Concen: 4.881 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU029020.D

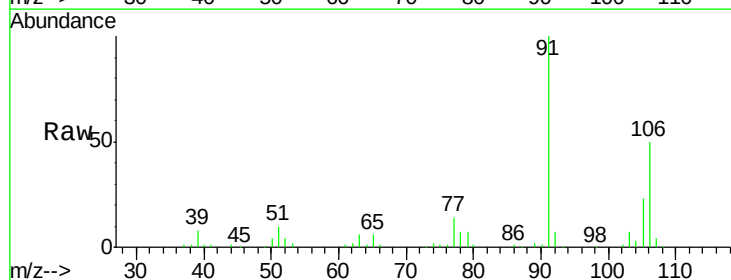
Acq: 04 Jan 2019 12:03

Tgt Ion: 106 Resp: 59183

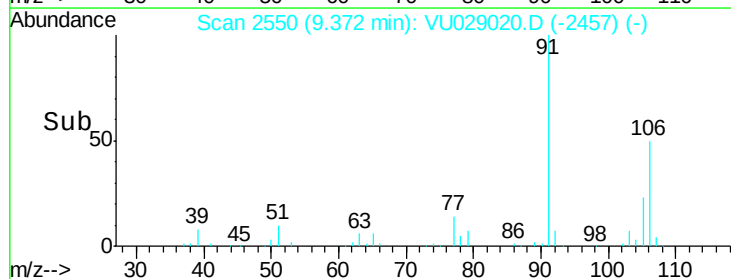
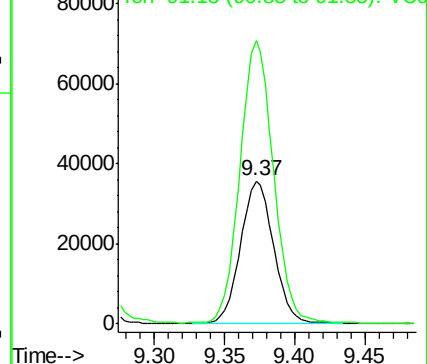
Ion Ratio Lower Upper

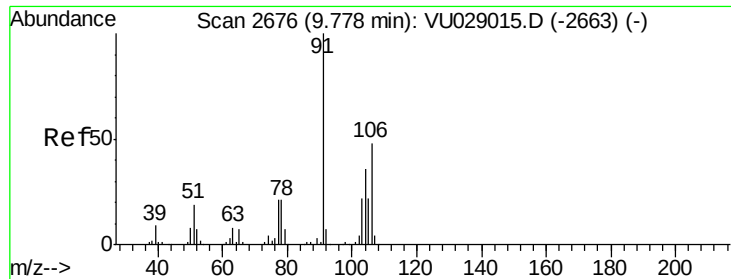
106 100

91 198.5 138.5 257.1



Abundance Ion 106.15 (105.85 to 106.85): VU029015.D (-2535) (-)

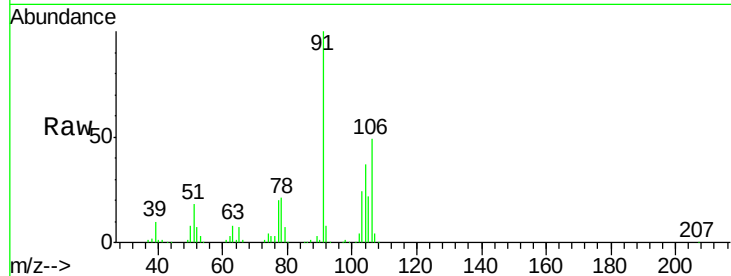




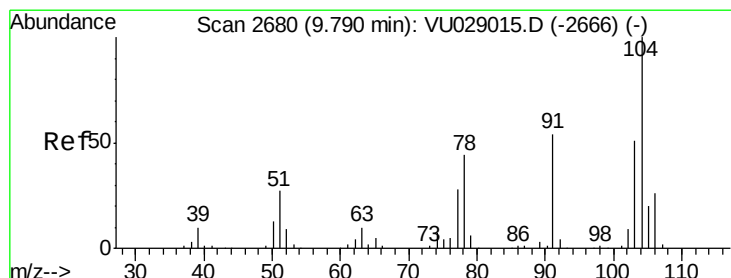
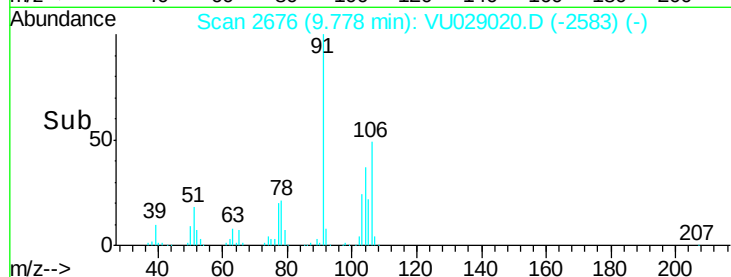
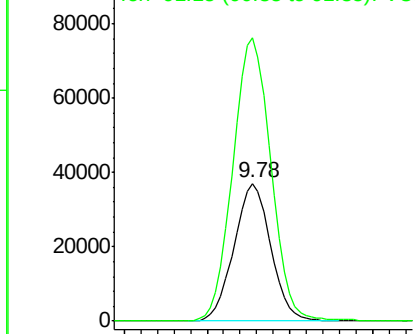
#54
o-xylene
Concen: 4.863 ug/L
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Instrument :
MSVOA_U
ClientSampleId :
VSTD00552

Tot Ion:106 Resp: 57237
Ion Ratio Lower Upper
106 100
91 205.9 146.5 272.1

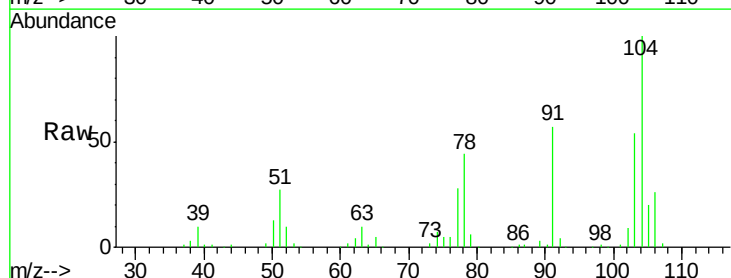


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

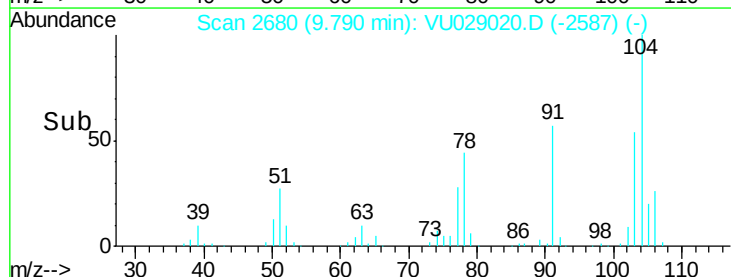
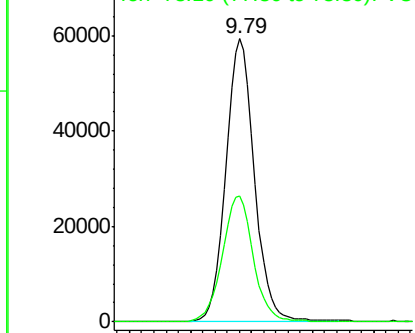


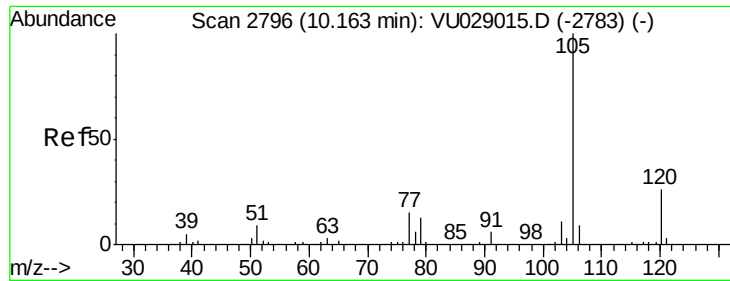
#55
Styrene
Concen: 4.975 ug/L
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU029020.D
Acq: 04 Jan 2019 12:03

Tgt Ion:104 Resp: 97455
Ion Ratio Lower Upper
104 100
78 44.4 30.9 57.5



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





#56

Isopropylbenzene

Concen: 4.764 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

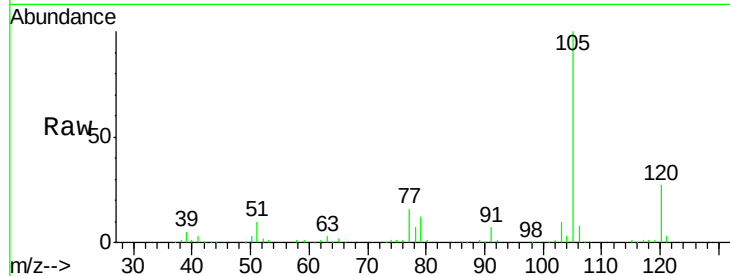
Tot Ion:105 Resp: 147868

Ion Ratio Lower Upper

105 100

120 26.4 20.9 31.3

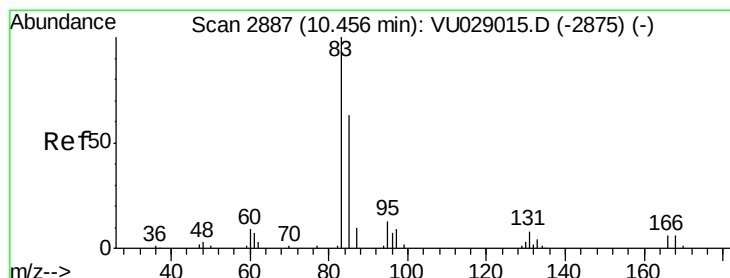
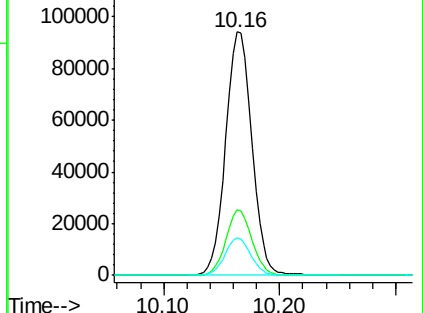
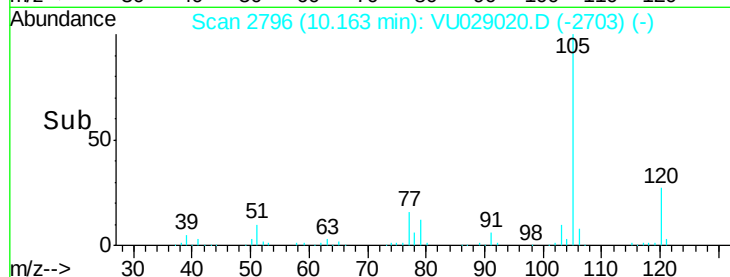
77 15.2 12.0 18.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.532 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

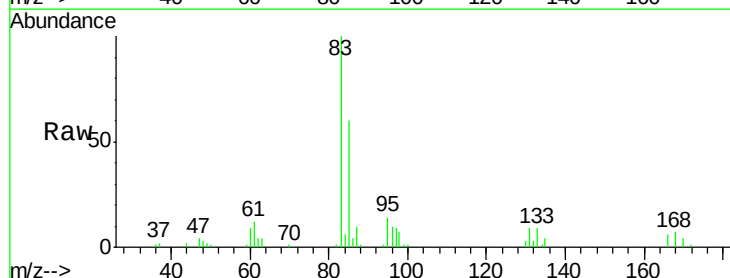
Tgt Ion: 83 Resp: 32944

Ion Ratio Lower Upper

83 100

85 60.2 44.0 81.8

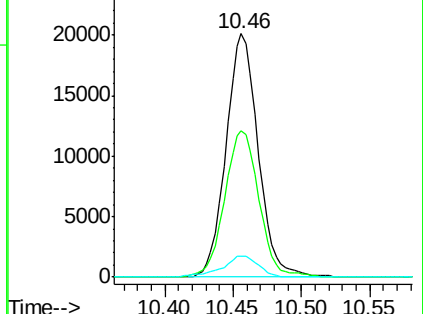
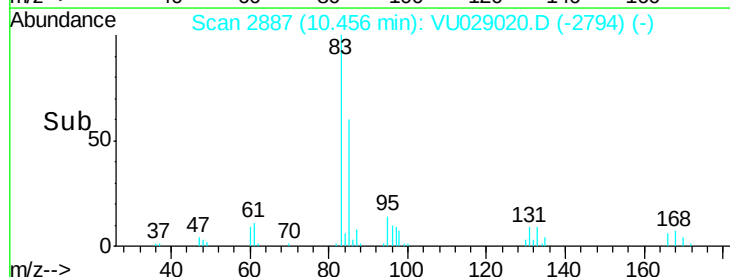
131 8.8 7.8 11.8

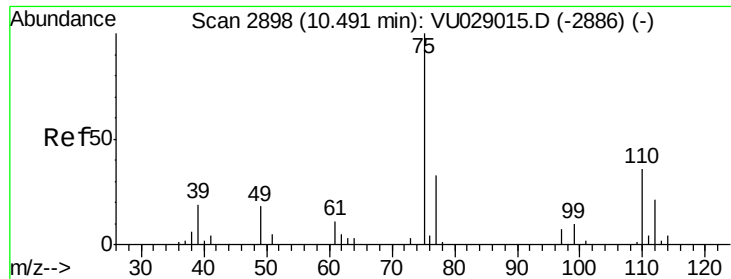


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.371 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

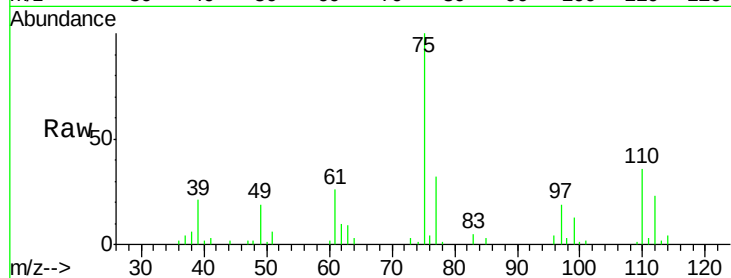
VSTD00552

Tot Ion: 75 Resp: 22379

Ion Ratio Lower Upper

75 100

77 32.1 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU029015.D (-2886) (-)

Ion 77.00 (76.70 to 77.70): VU029015.D (-2886) (-)

10.49

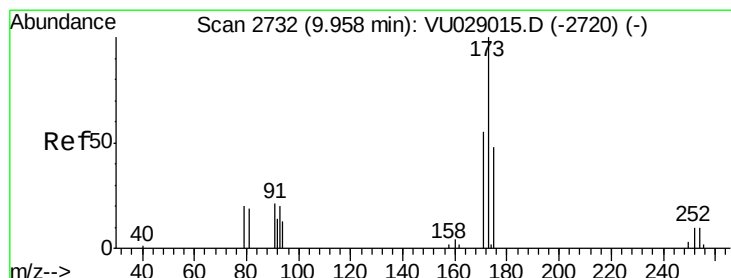
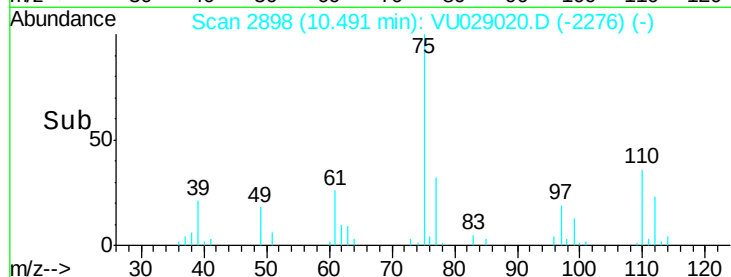
15000

10000

5000

0

Time-->



#61

Bromoform

Concen: 5.214 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

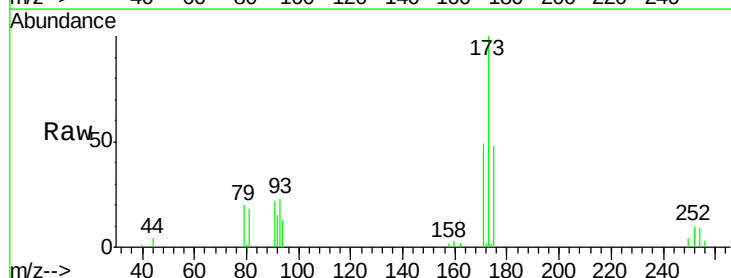
Tgt Ion: 173 Resp: 15583

Ion Ratio Lower Upper

173 100

175 48.4 35.4 53.2

254 9.4 7.5 11.3



Abundance Ion 172.90 (172.60 to 173.60): VU029015.D (-2720) (-)

Ion 174.90 (174.60 to 175.60): VU029015.D (-2720) (-)

Ion 253.75 (253.45 to 254.45): VU029015.D (-2720) (-)

9.96

12000

10000

8000

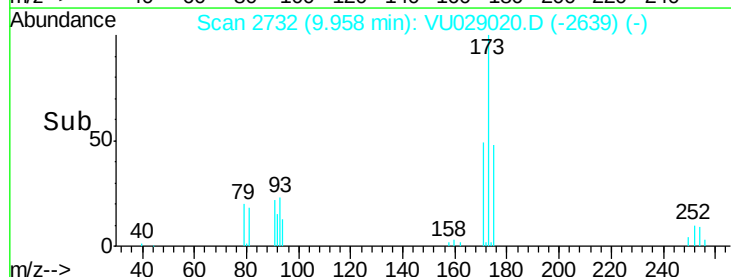
6000

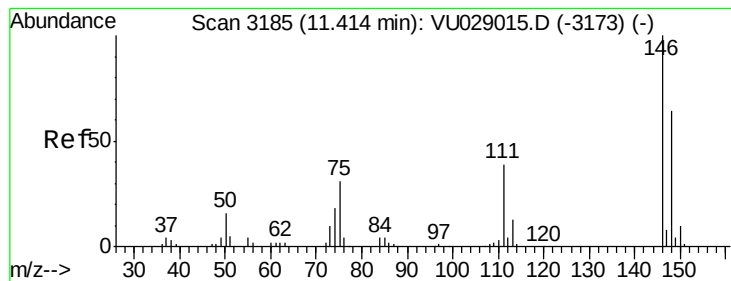
4000

2000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 4.657 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

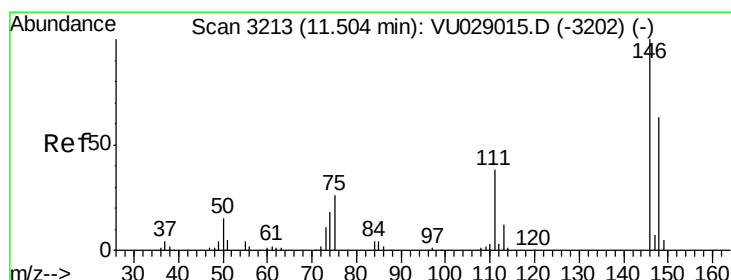
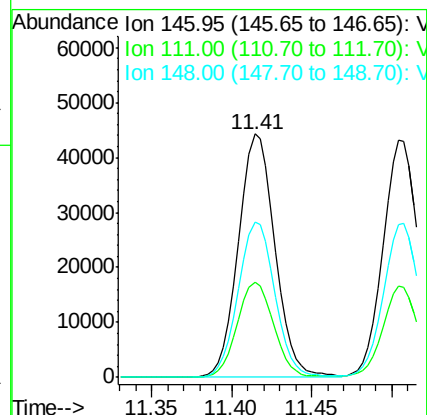
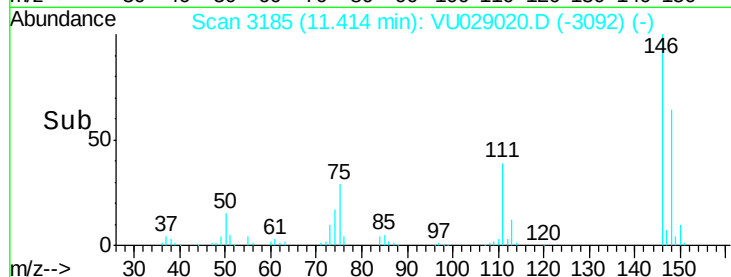
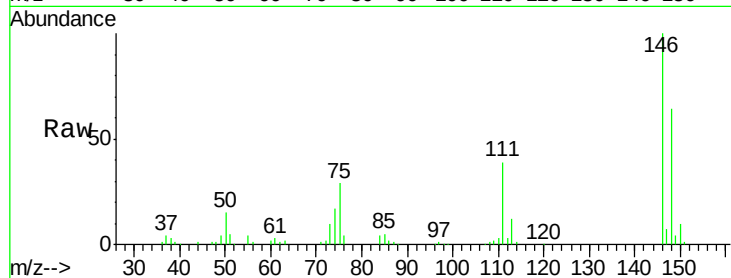
Tot Ion:146 Resp: 68952

Ion Ratio Lower Upper

146 100

111 39.1 27.7 51.5

148 63.6 44.9 83.5



#63

1,4-Dichlorobenzene

Concen: 4.519 ug/L

RT: 11.50 min Scan# 3213

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

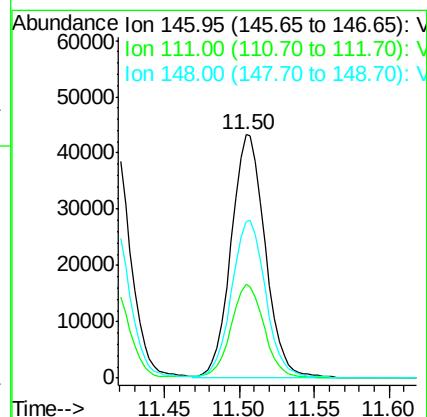
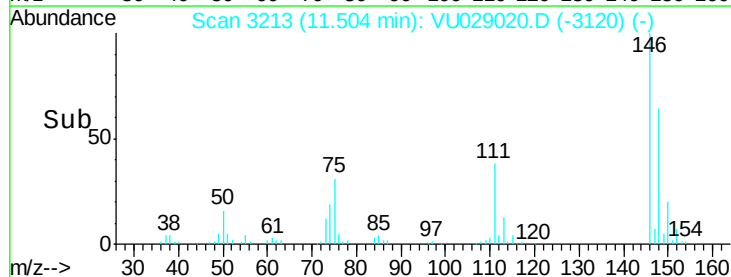
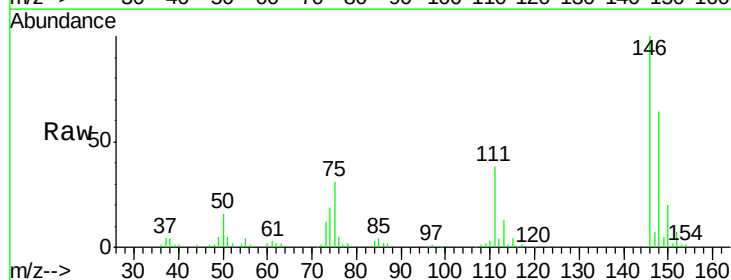
Tgt Ion:146 Resp: 68280

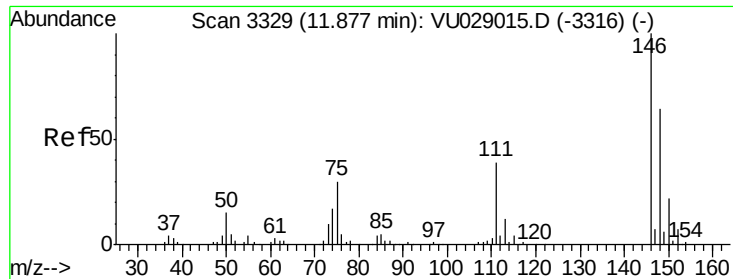
Ion Ratio Lower Upper

146 100

111 38.5 24.9 46.3

148 64.4 44.9 83.3

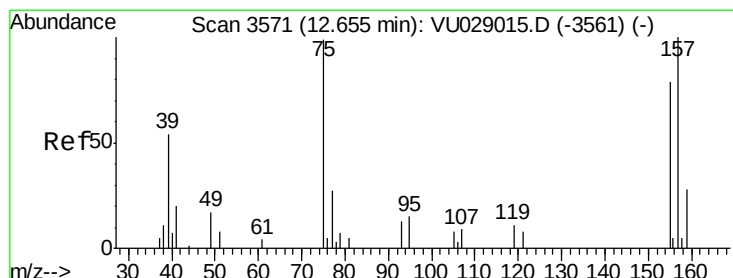
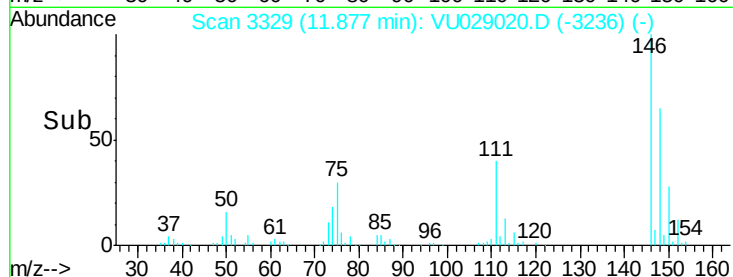
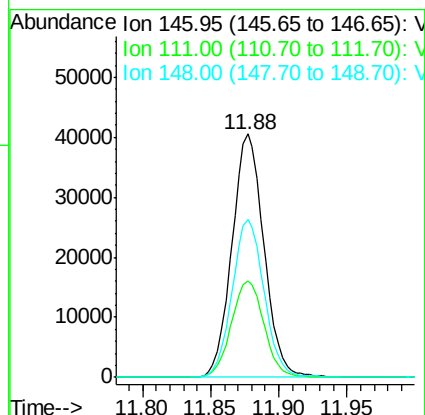
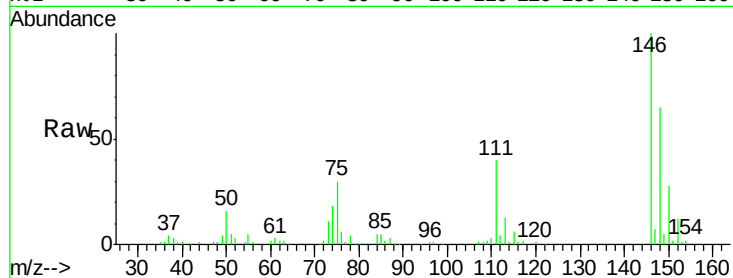




#65
 1,2-Dichlorobenzene
 Concen: 4.717 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU029020.D
 Acq: 04 Jan 2019 12:03

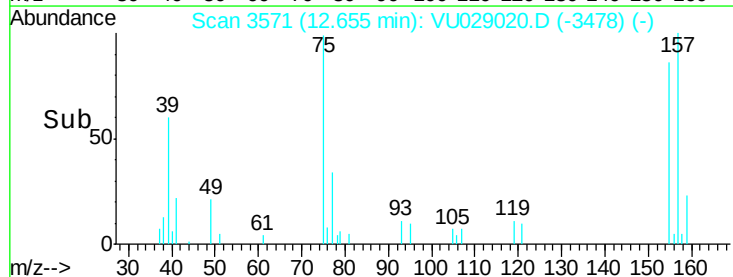
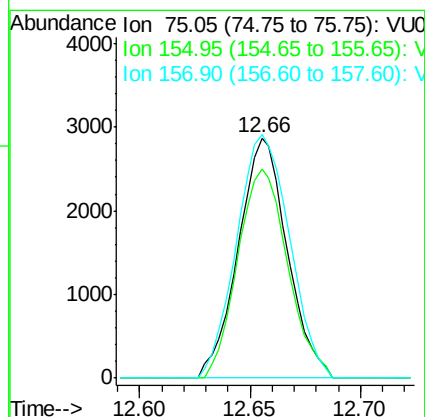
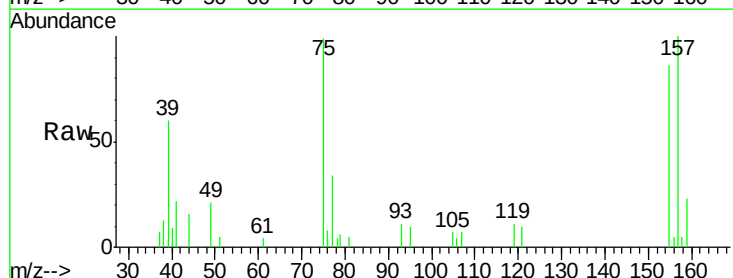
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

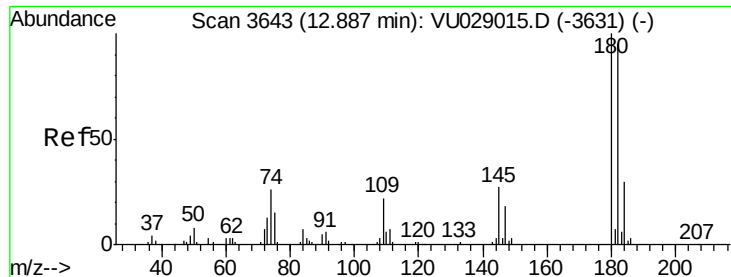
Tot Ion:146 Resp: 66087
 Ion Ratio Lower Upper
 146 100
 111 39.6 32.2 48.4
 148 64.6 53.2 79.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.335 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU029020.D
 Acq: 04 Jan 2019 12:03

Tgt Ion: 75 Resp: 4413
 Ion Ratio Lower Upper
 75 100
 155 87.1 72.2 108.2
 157 101.4 93.0 139.6

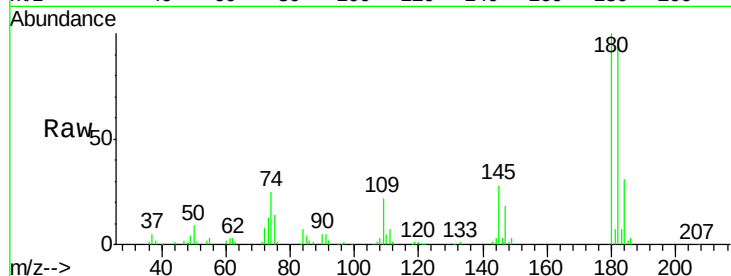




#67
 1,3,5-Trichlorobenzene
 Concen: 4.725 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU029020.D
 Acq: 04 Jan 2019 12:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00552

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.6	114.8
184	31.0	24.4	36.6
145	28.1	21.7	32.5

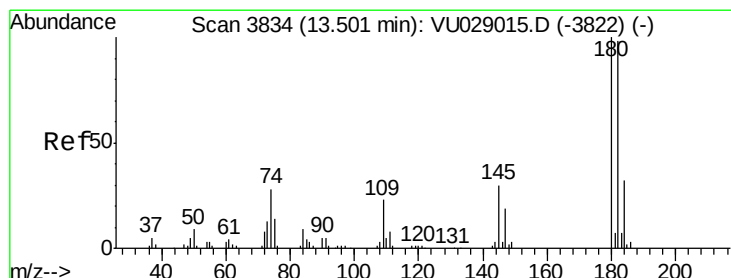
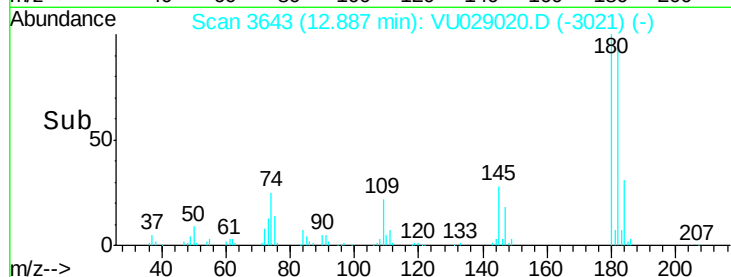
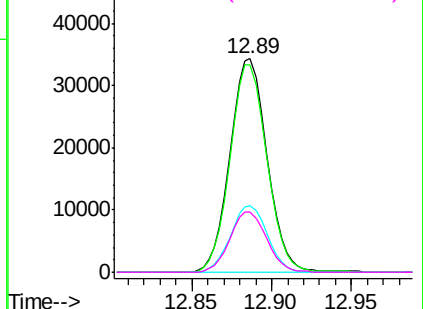


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

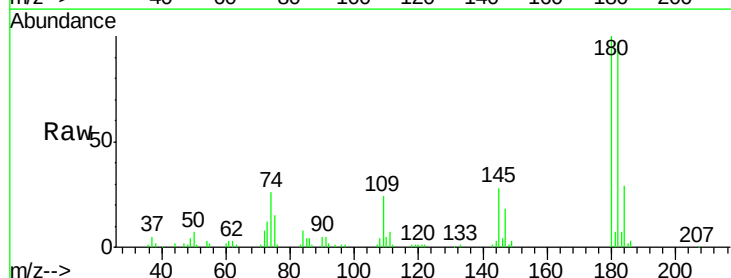
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.637 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU029020.D
 Acq: 04 Jan 2019 12:03

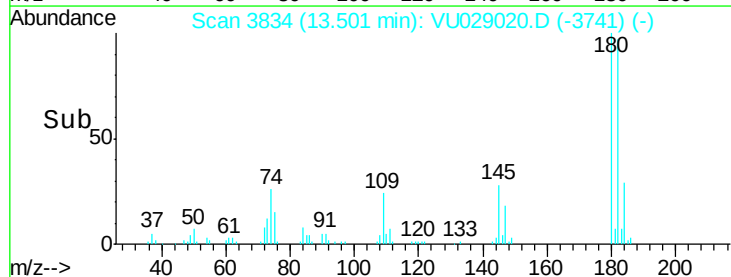
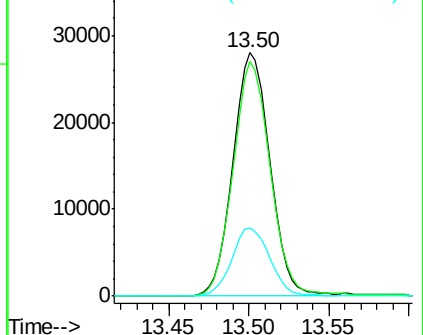
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.0	114.0
145	28.7	22.6	33.8

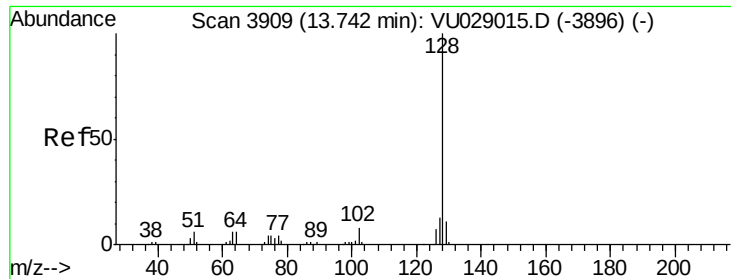


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.599 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

VSTD00552

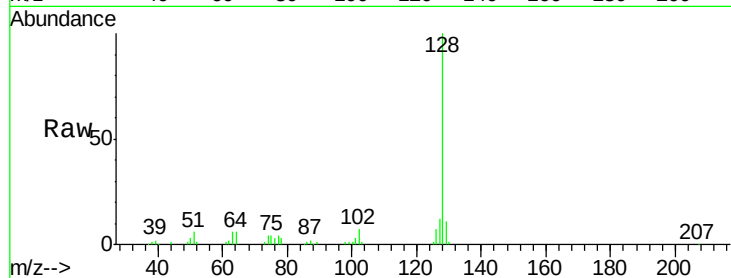
Tot Ion:128 Resp: 75099

Ion Ratio Lower Upper

128 100

129 11.0 8.3 12.5

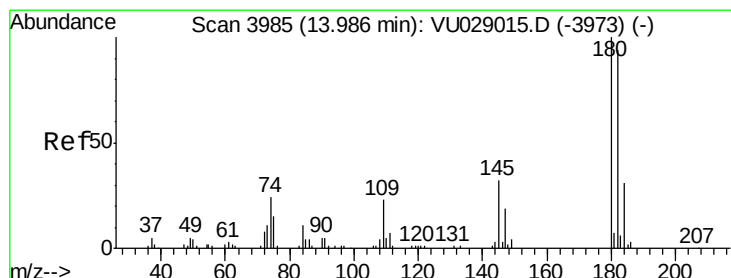
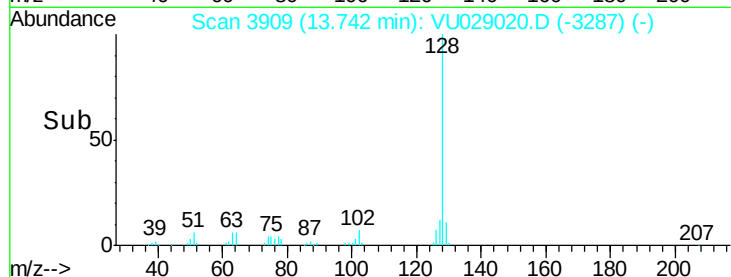
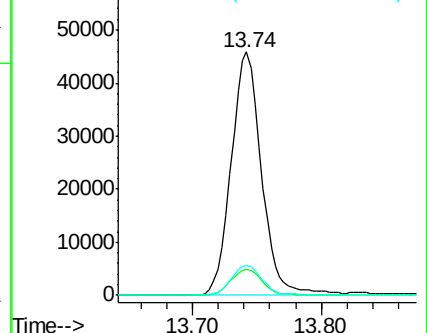
127 12.5 9.8 14.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.690 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU029020.D

Acq: 04 Jan 2019 12:03

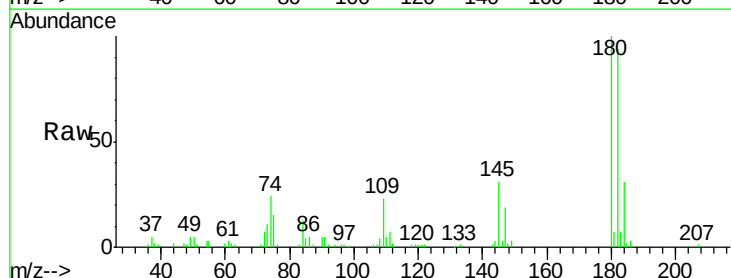
Tgt Ion:180 Resp: 42712

Ion Ratio Lower Upper

180 100

182 95.6 77.1 115.7

145 29.8 24.6 36.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

