

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081018\
 Data File : VU026052.D
 Acq On : 10 Aug 2018 18:47
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Quant Time: Aug 11 03:47:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Aug 11 00:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	279203	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	270417	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	135426	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	69333	33.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	67.94%
7) Chloroethane-d5	1.67	69	66168	40.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.78%
11) 1,1-Dichloroethene-d2	2.27	63	161401	41.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.24%
21) 2-Butanone-d5	4.18	46	167994	98.76	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.76%
24) Chloroform-d	4.65	84	202301	46.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.50%
26) 1,2-Dichloroethane-d4	5.31	65	134984	46.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.34%
32) Benzene-d6	5.34	84	365315	43.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.02%
36) 1,2-Dichloropropane-d6	6.33	67	124757	45.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.84%
41) Toluene-d8	7.57	98	345391	42.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.98%
43) trans-1,3-Dichloropropene-	7.85	79	61619	45.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.02%
47) 2-Hexanone-d5	8.31	63	120802	97.89	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.89%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	194491	48.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.90%
64) 1,2-Dichlorobenzene-d4	11.86	152	150294	45.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.04%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	130856	53.796	ug/L 99
3) Chloromethane	1.33	50	116497	53.376	ug/L 99
5) Vinyl chloride	1.40	62	114688	54.456	ug/L 98
6) Bromomethane	1.62	94	56969	50.586	ug/L 99
8) Chloroethane	1.70	64	68248	53.928	ug/L 94
9) Trichlorofluoromethane	1.89	101	160732	53.343	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	94023	53.641	ug/L 99
12) 1,1-Dichloroethene	2.28	96	86538	53.685	ug/L 89
13) Acetone	2.32	43	107043	101.304	ug/L 98
14) Carbon disulfide	2.48	76	287690	54.248	ug/L 99
15) Methyl Acetate	2.62	43	119906	54.175	ug/L 99
16) Methylene chloride	2.70	84	111621	54.240	ug/L 98
17) trans-1,2-Dichloroethene	2.98	96	96926	53.965	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	320459	54.292	ug/L 99
19) 1,1-Dichloroethane	3.45	63	189448	54.383	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	111477	53.942	ug/L 97
22) 2-Butanone	4.26	43	160848	105.204	ug/L 100

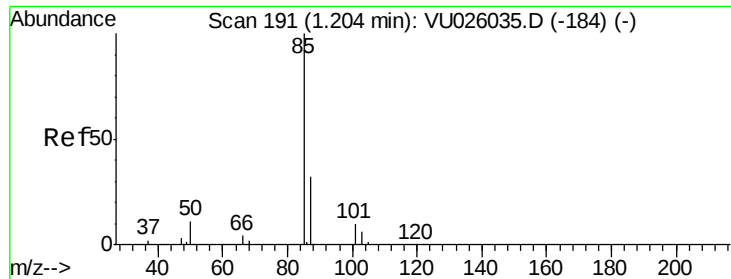
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081018\
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 Quant Title : VOC Analysis
 QLast Update : Sat Aug 11 00:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	61358	55.745	ug/L	99
25) Chloroform	4.67	83	199567	55.014	ug/L	99
27) 1,2-Dichloroethane	5.41	62	161745	53.985	ug/L	97
29) Cyclohexane	5.00	56	157502	52.113	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	177608	52.055	ug/L	99
31) Carbon tetrachloride	5.14	117	163990	52.635	ug/L	100
33) Benzene	5.39	78	414699	53.843	ug/L	100
34) Trichloroethene	6.19	95	105352	52.359	ug/L	96
35) Methylcyclohexane	6.42	83	161285	52.496	ug/L	99
37) 1,2-Dichloropropane	6.44	63	115492	54.802	ug/L	100
38) Bromodichloromethane	6.76	83	151859	54.088	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	169151	52.959	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	308486	106.536	ug/L	100
42) Toluene	7.64	91	447738	54.768	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	163043	53.630	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	108525	54.014	ug/L	97
46) Tetrachloroethene	8.23	164	91676	53.538	ug/L	99
48) 2-Hexanone	8.36	43	240113	106.438	ug/L	99
49) Dibromochloromethane	8.48	129	131210	54.156	ug/L	99
50) 1,2-Dibromoethane	8.59	107	118227	54.028	ug/L	98
51) Chlorobenzene	9.12	112	294872	53.494	ug/L	100
52) Ethylbenzene	9.25	91	481498	53.825	ug/L	100
53) m,p-Xylene	9.38	106	190741	55.801	ug/L	99
54) o-xylene	9.78	106	187254	55.196	ug/L	99
55) Styrene	9.80	104	317393	56.194	ug/L	100
56) Isopropylbenzene	10.17	105	485224	55.519	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	183806	53.827	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	146853	54.030	ug/L	99
61) Bromoform	9.96	173	98960	53.970	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	225153	53.403	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	233514	52.835	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	242354	54.004	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	41714	52.959	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	169382	53.755	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	140665	52.789	ug/L	99
69) Naphthalene	13.74	128	448969	52.227	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	156100	54.505	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 53.796 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

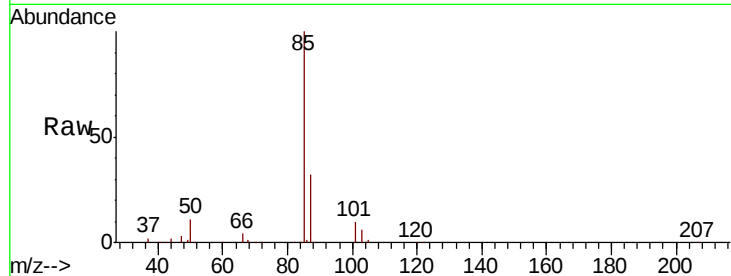
VSTD05052

Tot Ion: 85 Resp: 130856

Ion Ratio Lower Upper

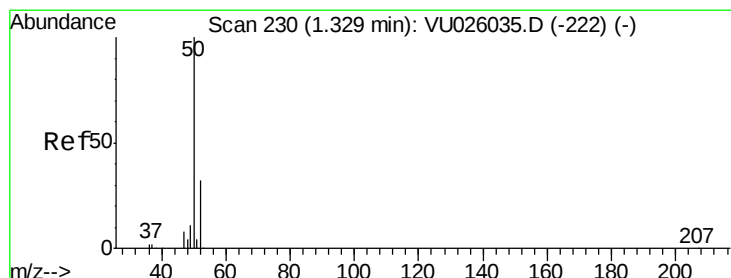
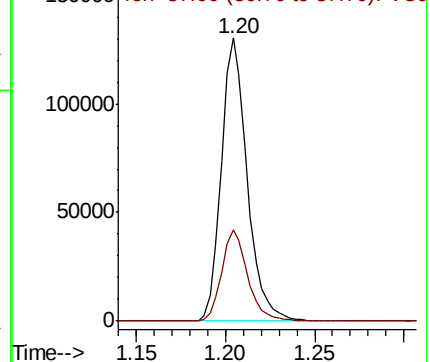
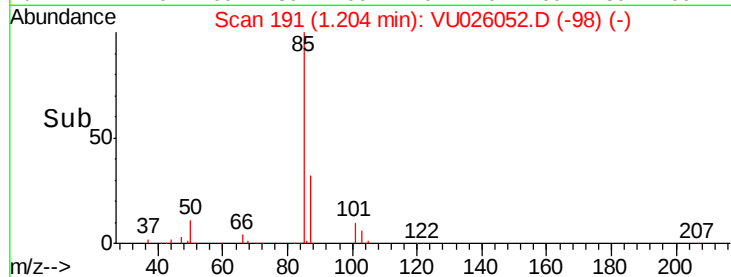
85 100

87 32.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU026052.D (-98) (-)

Ion 87.00 (86.70 to 87.70): VU026052.D (-98) (-)



#3

Chloromethane

Concen: 53.376 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU026052.D

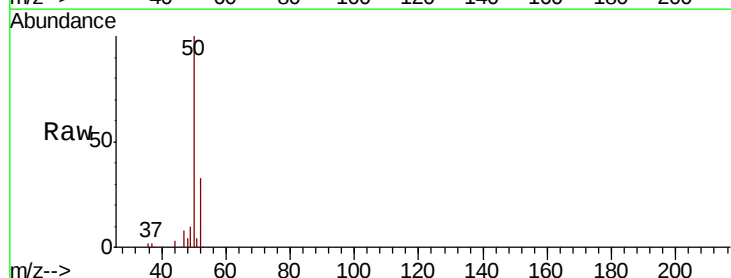
Acq: 10 Aug 2018 18:47

Tgt Ion: 50 Resp: 116497

Ion Ratio Lower Upper

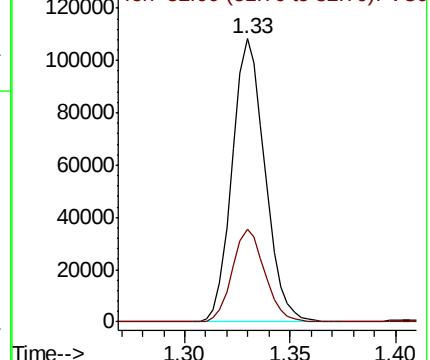
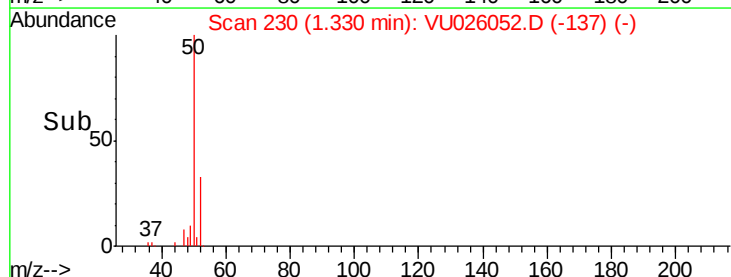
50 100

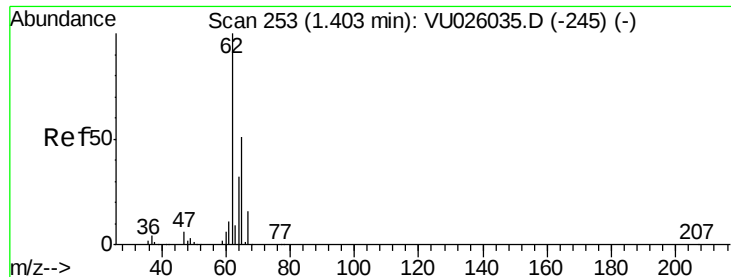
52 32.8 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU026052.D (-137) (-)

Ion 52.00 (51.70 to 52.70): VU026052.D (-137) (-)





#5

Vinyl chloride

Concen: 54.456 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

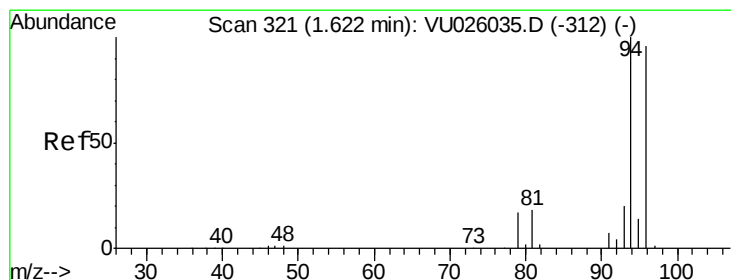
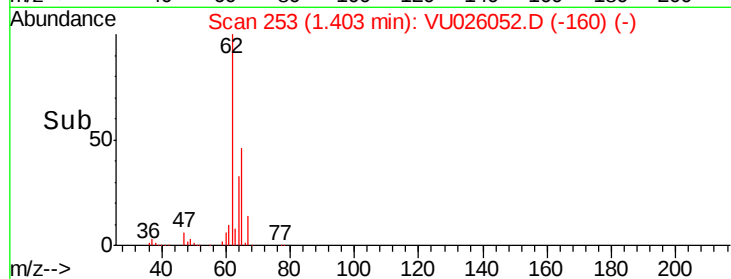
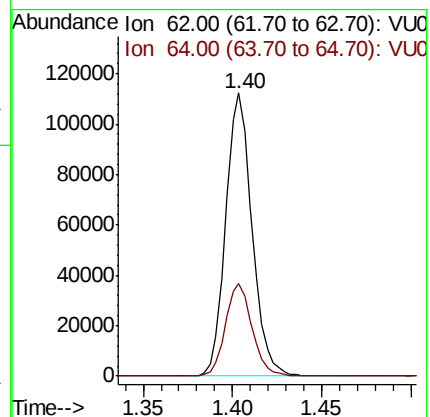
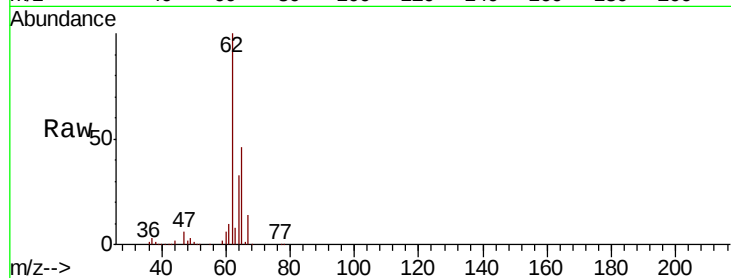
VSTD05052

Tot Ion: 62 Resp: 114688

Ion Ratio Lower Upper

62 100

64 32.7 23.7 43.9



#6

Bromomethane

Concen: 50.586 ug/L

RT: 1.62 min Scan# 320

Delta R.T. -0.00 min

Lab File: VU026052.D

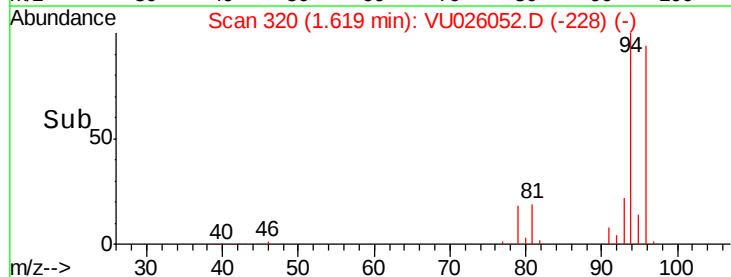
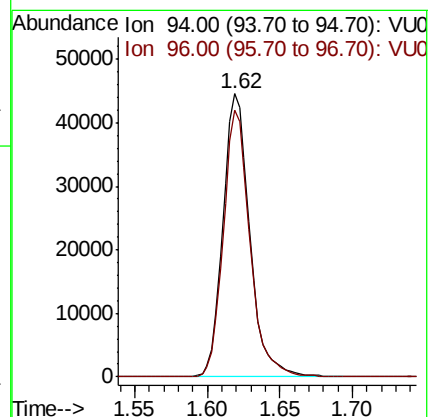
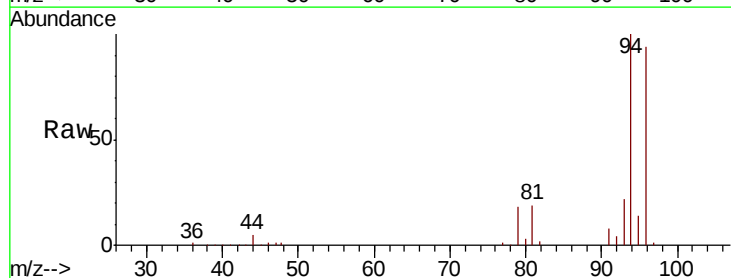
Acq: 10 Aug 2018 18:47

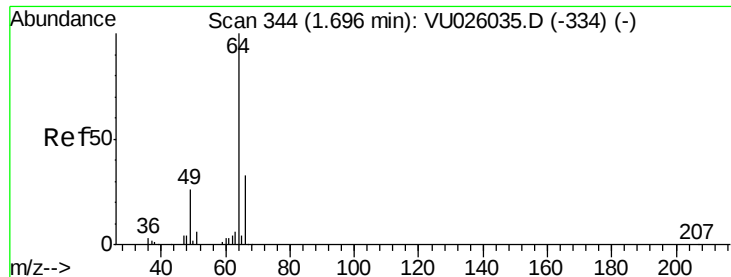
Tgt Ion: 94 Resp: 56969

Ion Ratio Lower Upper

94 100

96 94.5 65.6 121.8





#8

Chloroethane

Concen: 53.928 ug/L

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

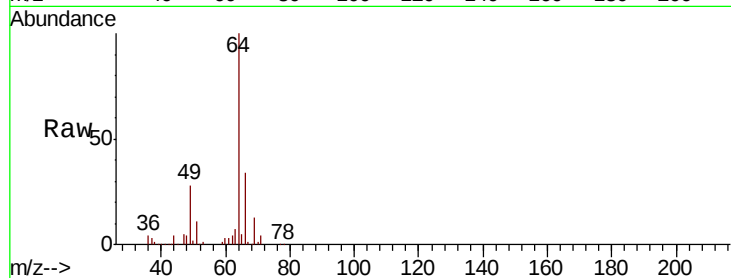
VSTD05052

Tot Ion: 64 Resp: 68248

Ion Ratio Lower Upper

64 100

66 33.8 21.2 39.4

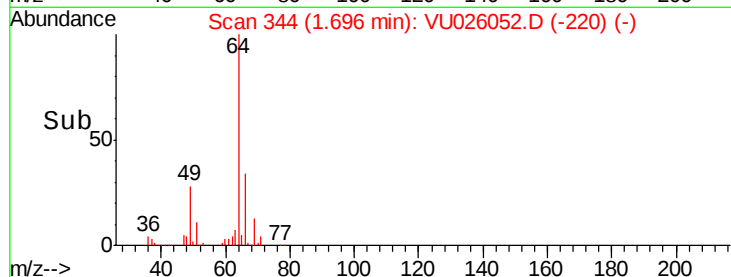


Abundance Ion 64.00 (63.70 to 64.70): VU026035.D (-334) (-)

Ion 66.00 (65.70 to 66.70): VU026035.D (-334) (-)

1.70

Time-->

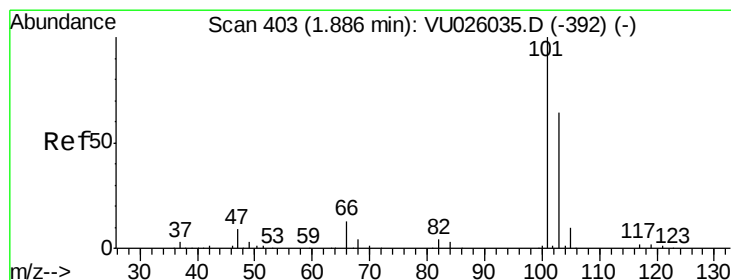


Abundance Ion 64.00 (63.70 to 64.70): VU026052.D (-220) (-)

Ion 66.00 (65.70 to 66.70): VU026052.D (-220) (-)

1.70

Time-->



#9

Trichlorofluoromethane

Concen: 53.343 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU026052.D

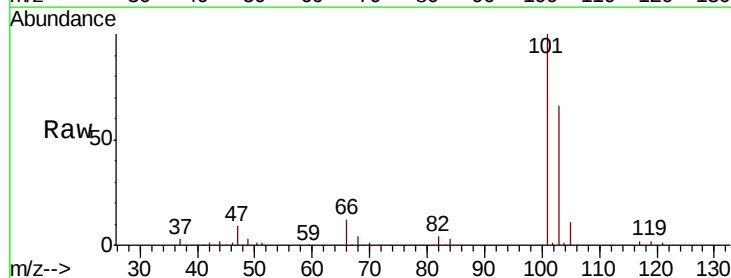
Acq: 10 Aug 2018 18:47

Tgt Ion: 101 Resp: 160732

Ion Ratio Lower Upper

101 100

103 66.0 52.7 79.1

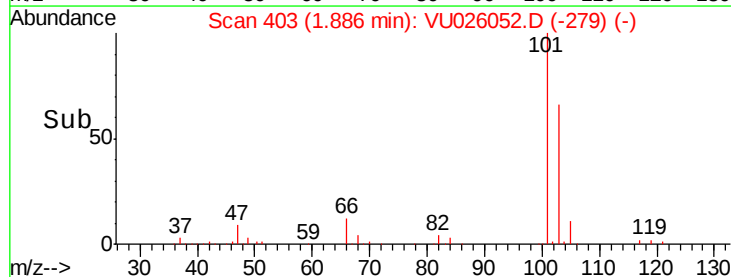


Abundance Ion 101.00 (100.70 to 101.70): VU026035.D (-392) (-)

Ion 103.00 (102.70 to 103.70): VU026035.D (-392) (-)

1.89

Time-->

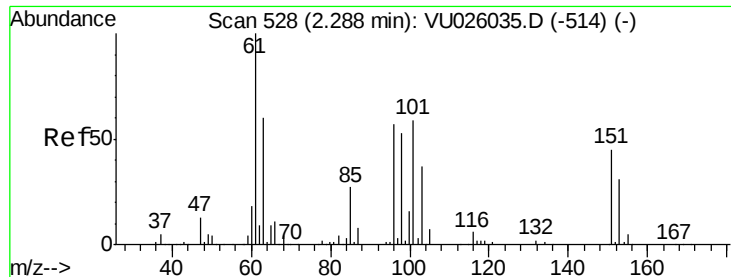


Abundance Ion 101.00 (100.70 to 101.70): VU026052.D (-279) (-)

Ion 103.00 (102.70 to 103.70): VU026052.D (-279) (-)

1.89

Time-->



#10

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

Concen: 53.641 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

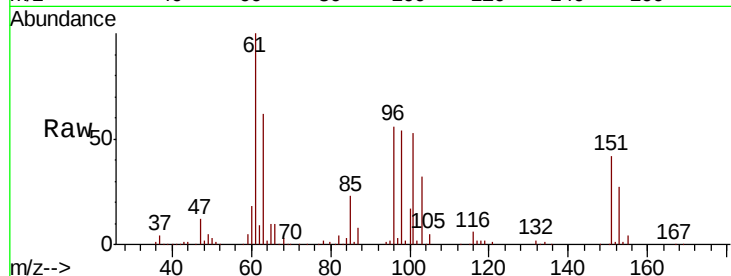
Tot Ion:101 Resp: 94023

Ion Ratio Lower Upper

101 100

85 43.7 36.0 54.0

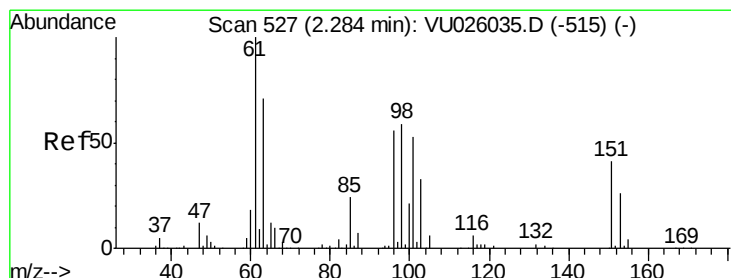
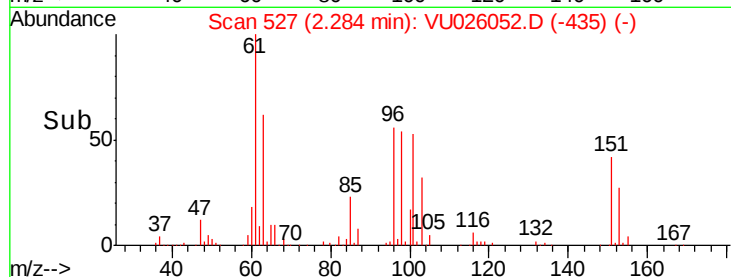
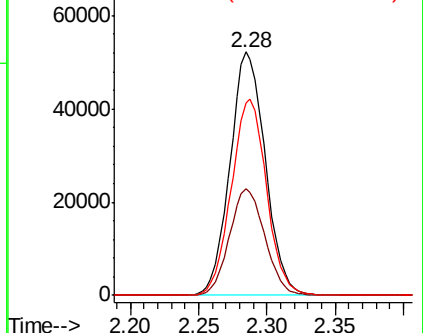
151 80.3 64.2 96.2



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: 53.685 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

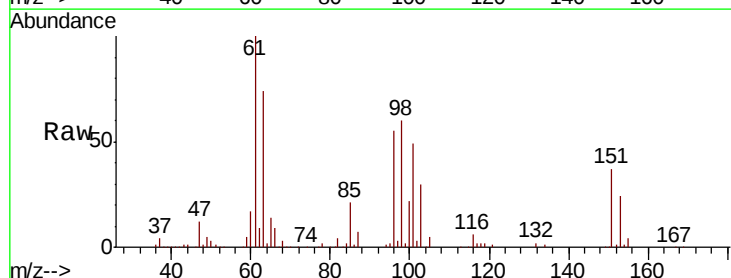
Tgt Ion: 96 Resp: 86538

Ion Ratio Lower Upper

96 100

61 181.0 121.2 225.2

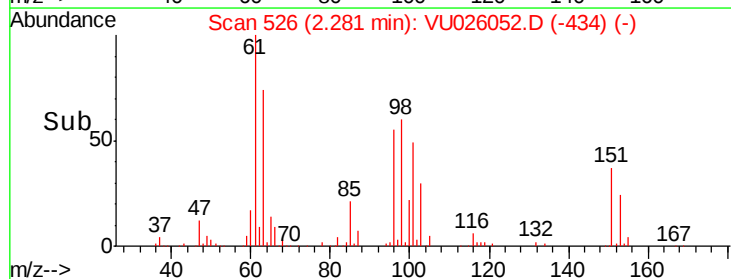
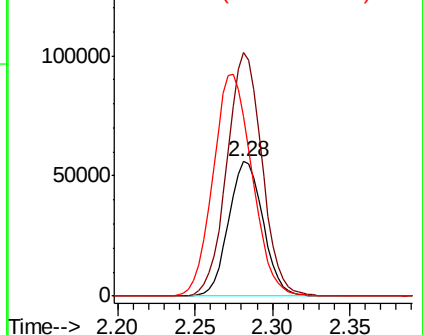
63 133.4 108.7 201.9

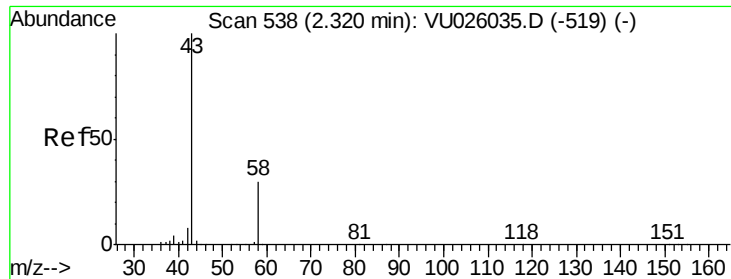


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 101.304 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

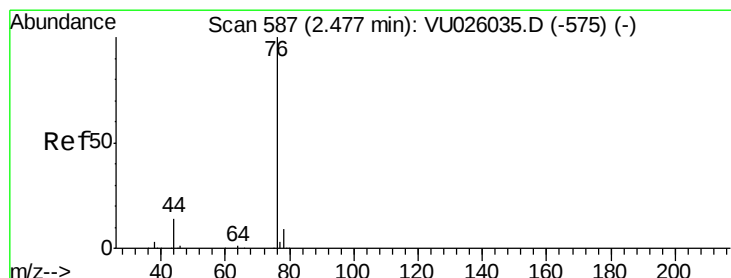
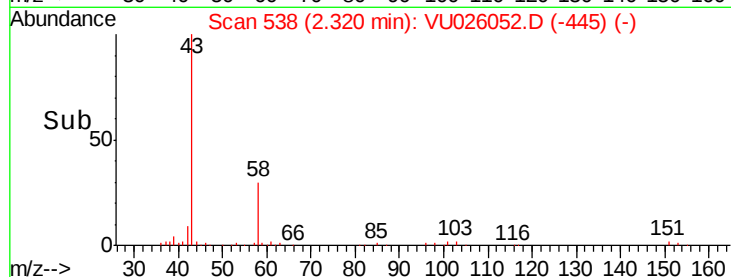
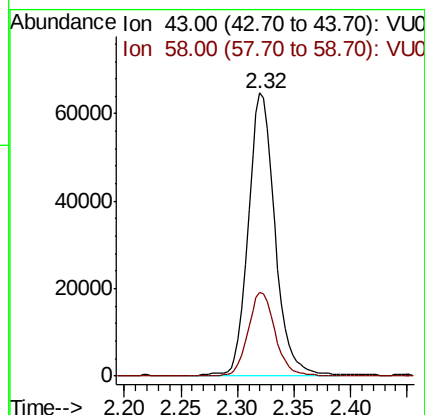
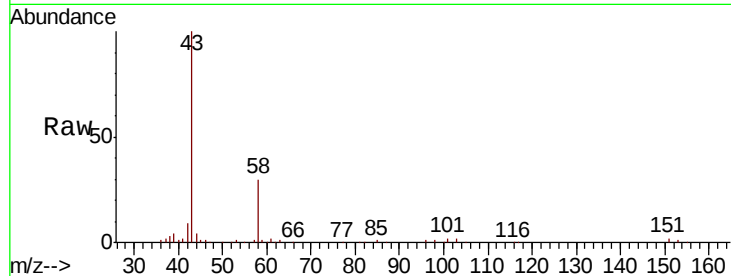
VSTD05052

Tot Ion: 43 Resp: 107043

Ion Ratio Lower Upper

43 100

58 29.9 0.0 61.8



#14

Carbon disulfide

Concen: 54.248 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU026052.D

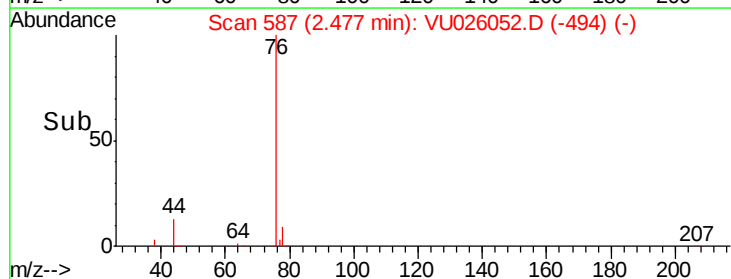
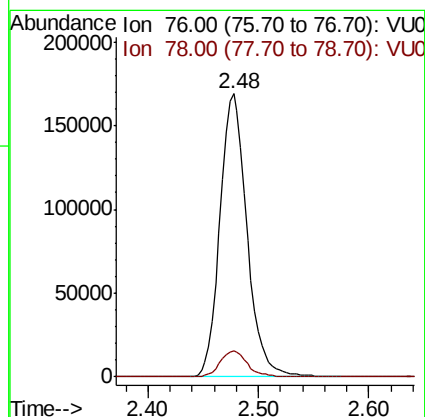
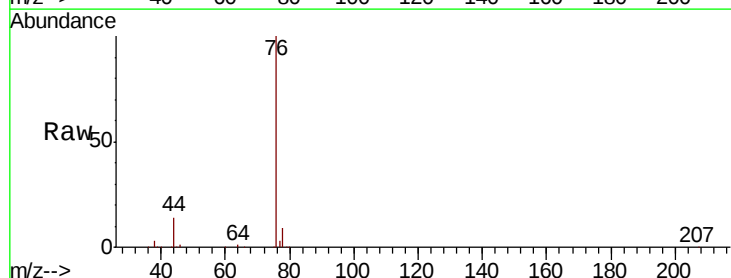
Acq: 10 Aug 2018 18:47

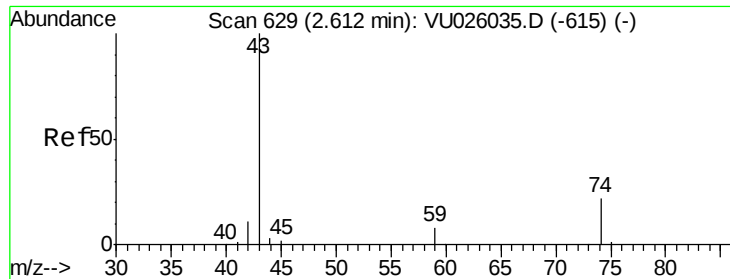
Tgt Ion: 76 Resp: 287690

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8

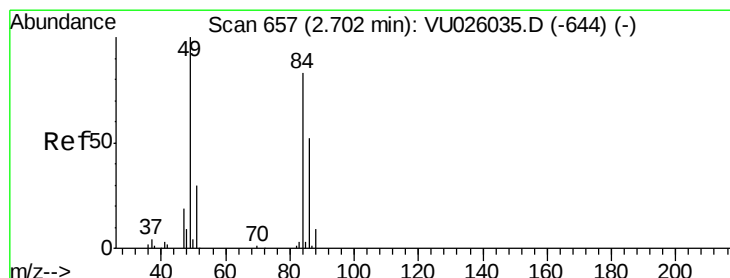
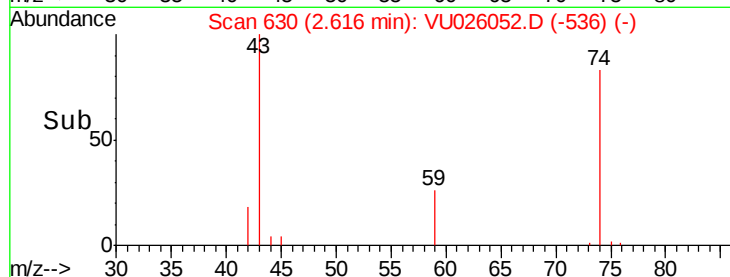
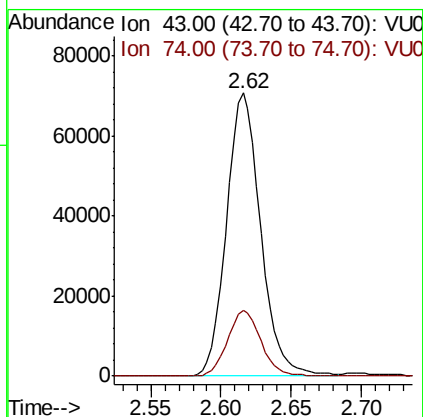
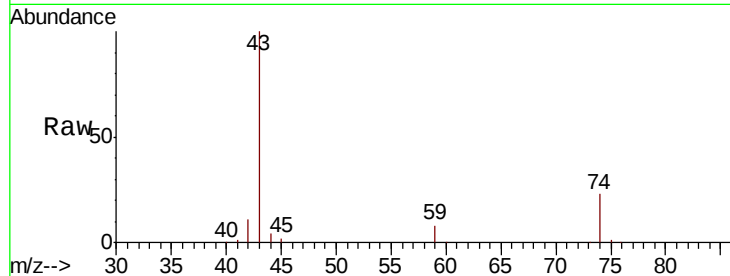




#15
Methvl Acetate
Concen: 54.175 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

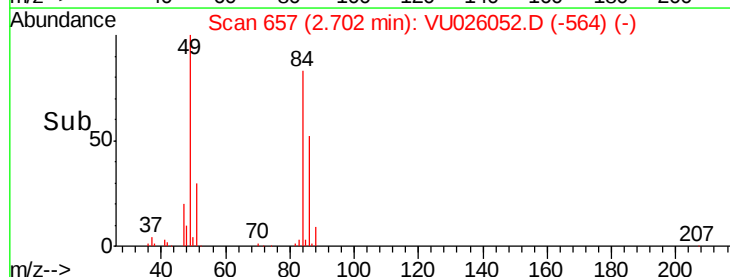
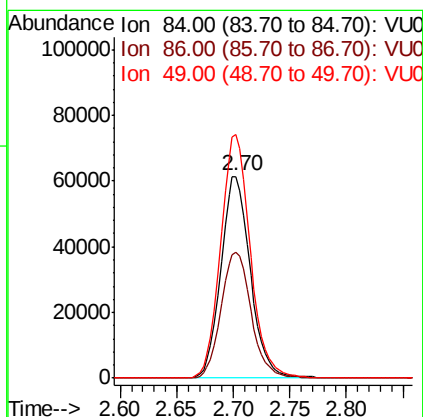
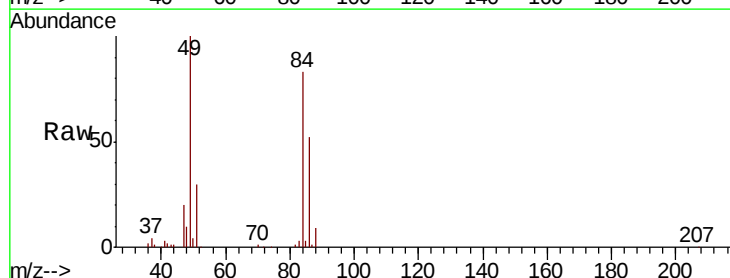
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

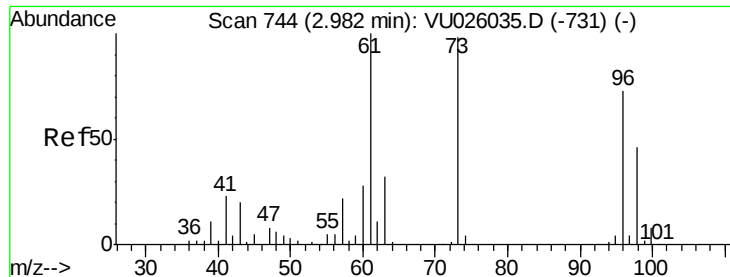
Tot Ion: 43 Resp: 119906
Ion Ratio Lower Upper
43 100
74 22.7 17.8 26.8



#16
Methylene chloride
Concen: 54.240 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

Tgt Ion: 84 Resp: 111621
Ion Ratio Lower Upper
84 100
86 62.5 45.8 85.0
49 120.6 85.0 157.8





#17

trans-1,2-Dichloroethene

Concen: 53.965 ug/L

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

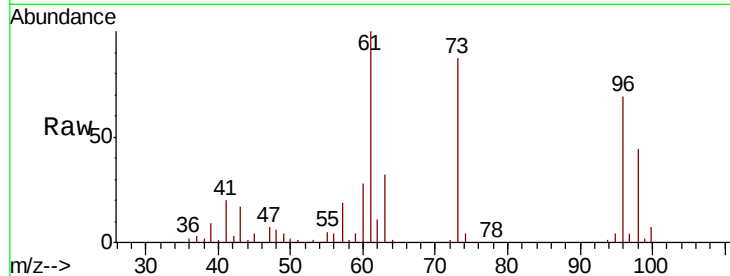
Tot Ion: 96 Resp: 96926

Ion Ratio Lower Upper

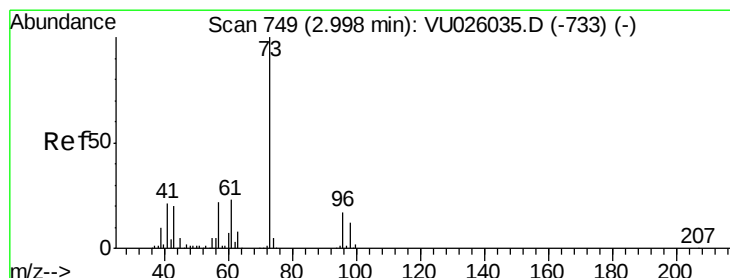
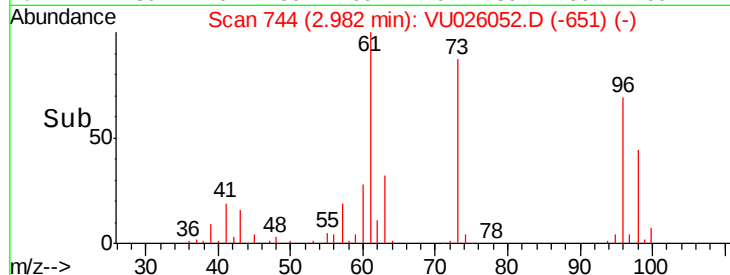
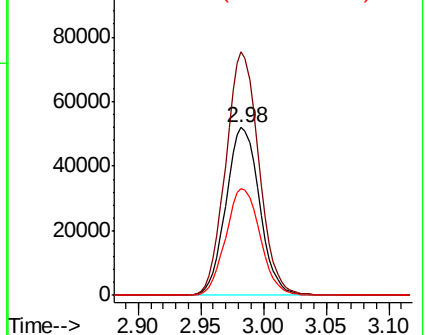
96 100

61 145.1 102.8 190.8

98 63.9 44.7 83.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 54.292 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

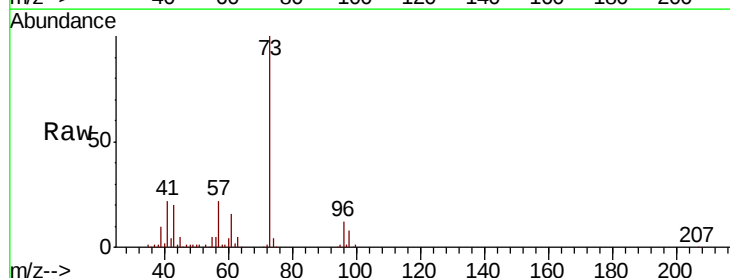
Tgt Ion: 73 Resp: 320459

Ion Ratio Lower Upper

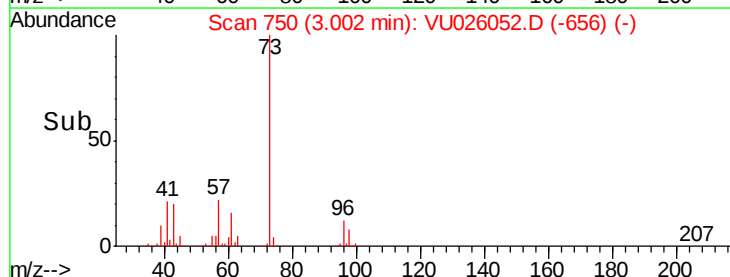
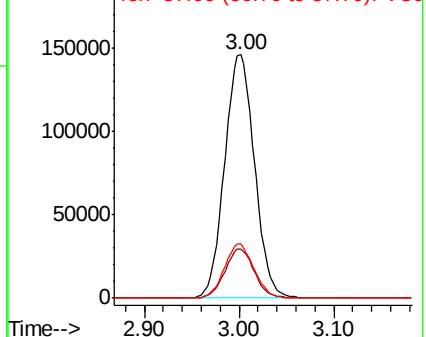
73 100

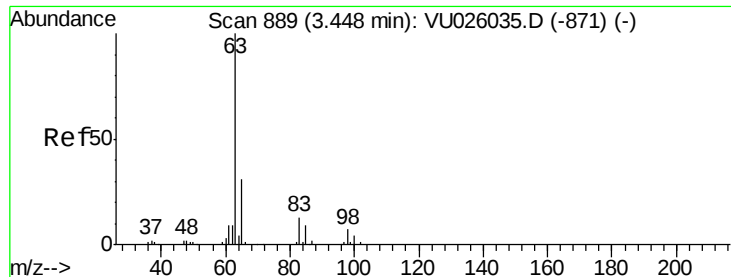
43 20.0 16.3 24.5

57 21.9 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

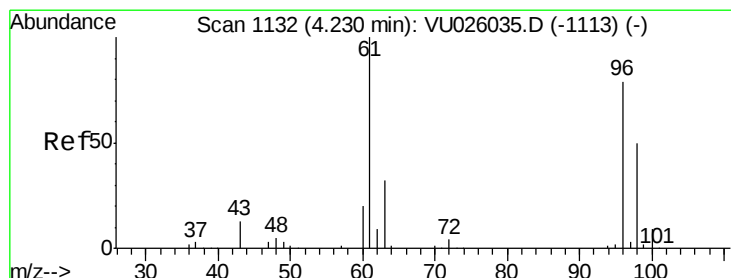
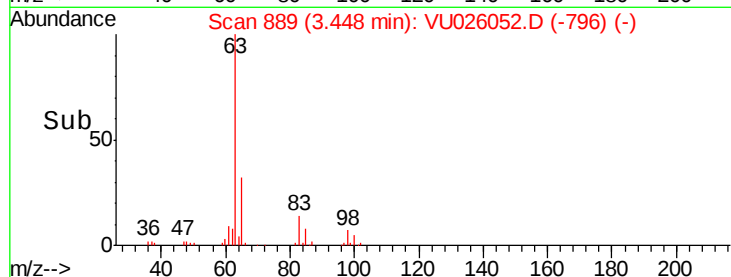
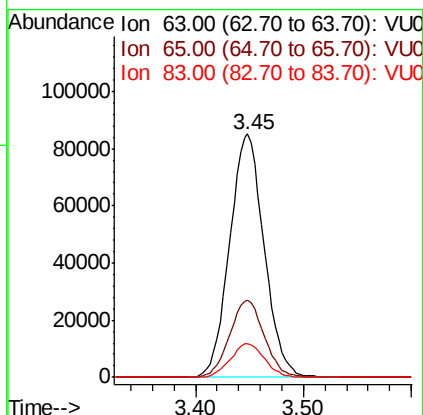
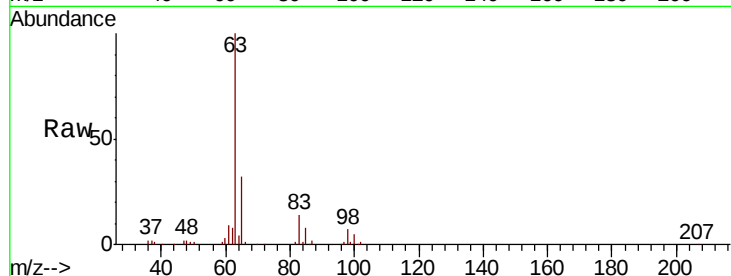




#19
 1,1-Dichloroethane
 Concen: 54.383 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

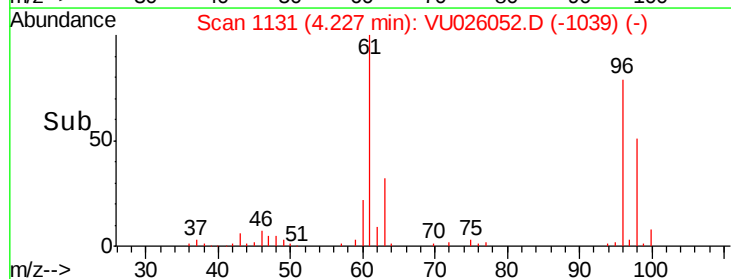
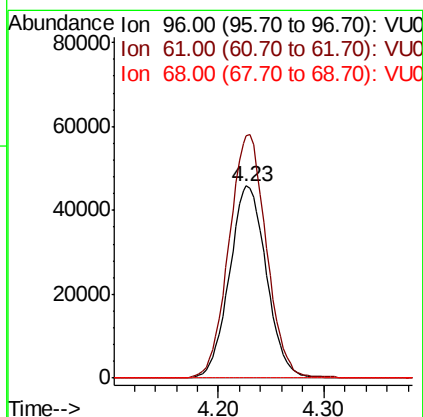
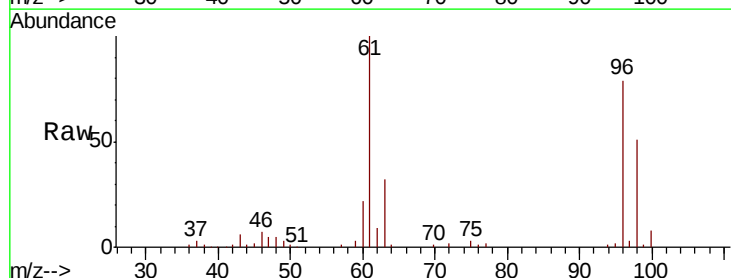
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05052

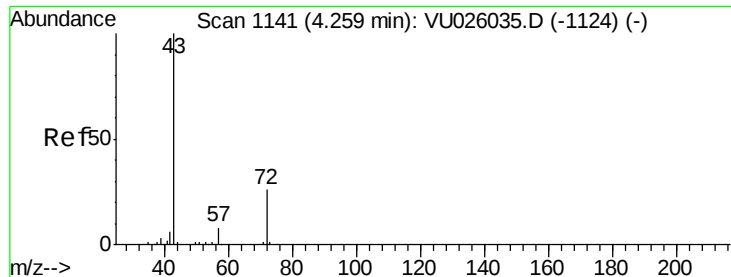
Tot Ion: 63 Resp: 189448
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.4 41.6
 83 13.7 10.1 18.9



#20
 cis-1,2-Dichloroethene
 Concen: 53.942 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Tgt Ion: 96 Resp: 111477
 Ion Ratio Lower Upper
 96 100
 61 126.1 90.7 168.5
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 105.204 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

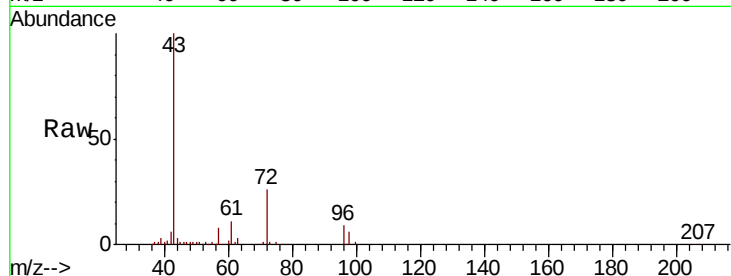
VSTD05052

Tot Ion: 43 Resp: 160848

Ion Ratio Lower Upper

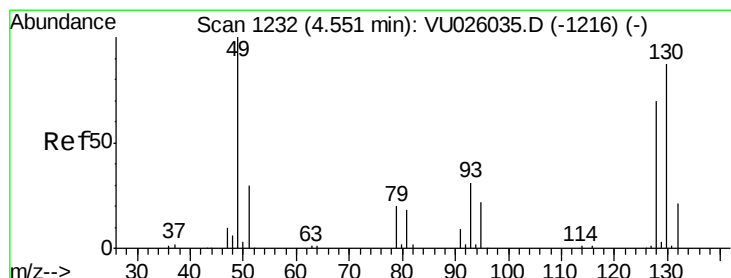
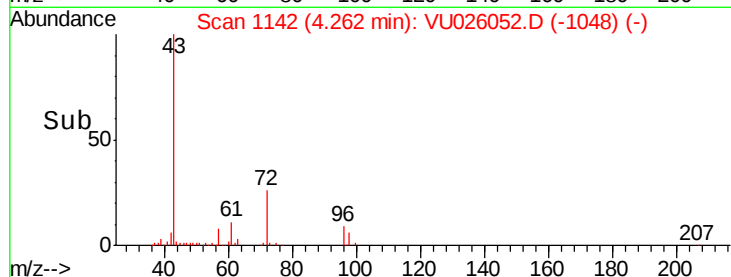
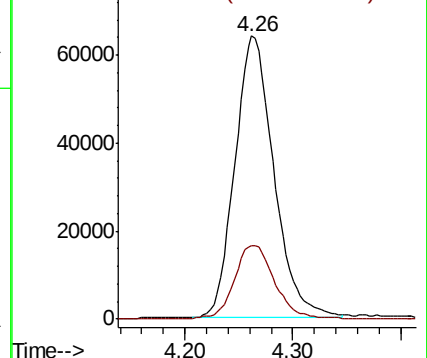
43 100

72 27.1 13.5 40.5



Abundance Ion 43.00 (42.70 to 43.70): VU026035.D (-1124) (-)

Ion 72.00 (71.70 to 72.70): VU026035.D (-1124) (-)



#23

Bromochloromethane

Concen: 55.745 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Tgt Ion:128 Resp: 61358

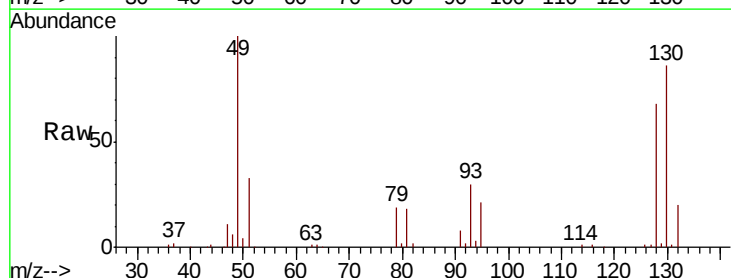
Ion Ratio Lower Upper

128 100

49 146.4 103.0 191.2

130 126.1 89.5 166.1

51 48.3 37.7 56.5

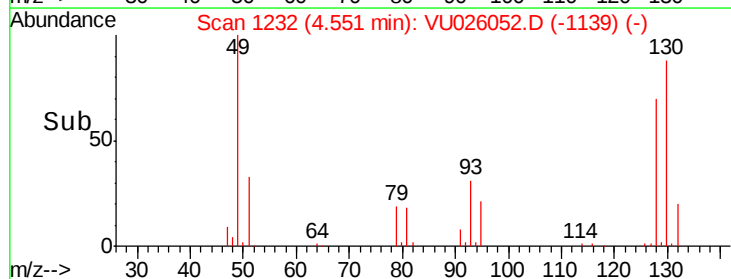
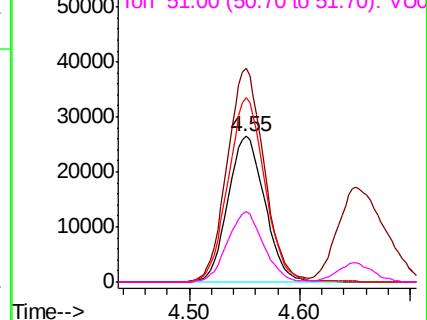


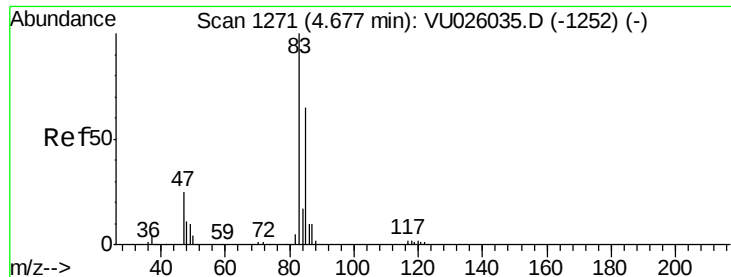
Abundance Ion 128.00 (127.70 to 128.70): VU026035.D (-1216) (-)

Ion 49.00 (48.70 to 49.70): VU026035.D (-1216) (-)

Ion 130.00 (129.70 to 130.70): VU026035.D (-1216) (-)

Ion 51.00 (50.70 to 51.70): VU026035.D (-1216) (-)

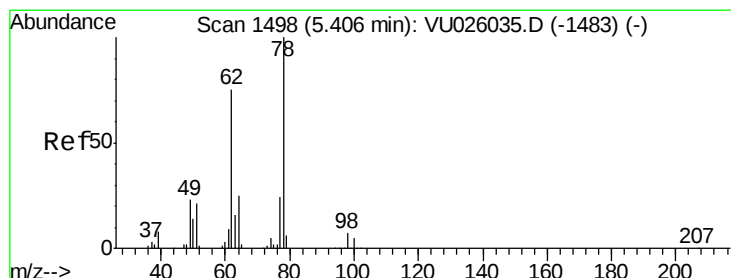
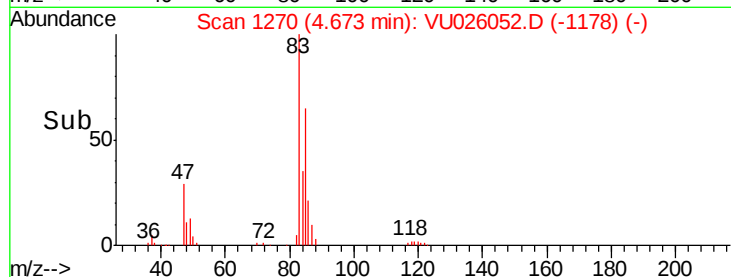
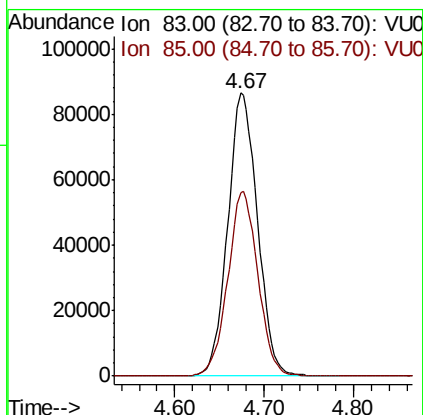
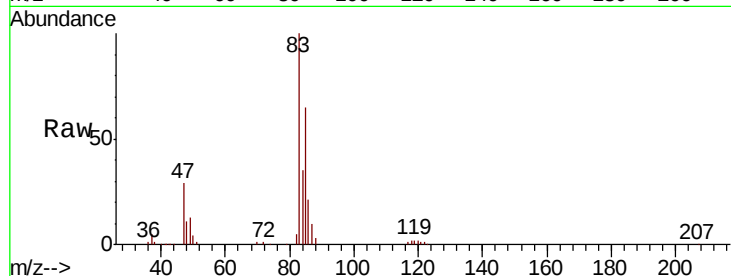




#25
Chloroform
Concen: 55.014 ug/L
RT: 4.67 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

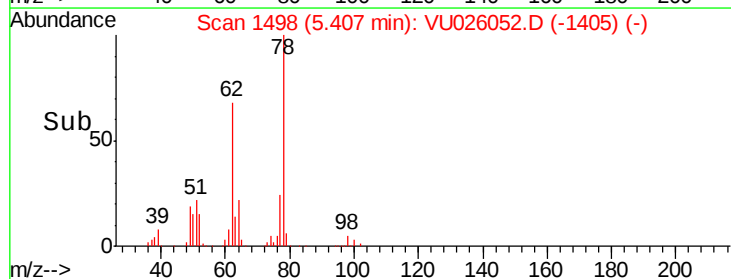
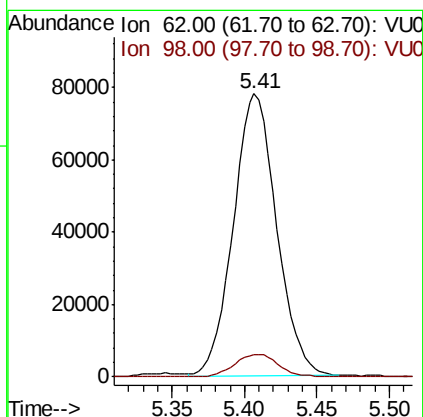
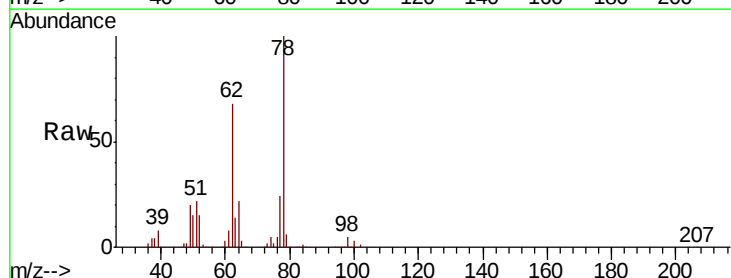
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

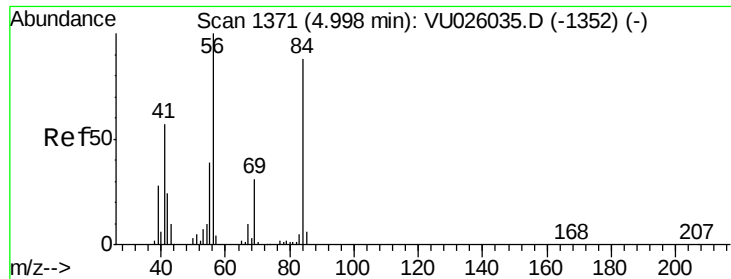
Tot Ion: 83 Resp: 199567
Ion Ratio Lower Upper
83 100
85 64.9 45.9 85.3



#27
1,2-Dichloroethane
Concen: 53.985 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

Tgt Ion: 62 Resp: 161745
Ion Ratio Lower Upper
62 100
98 7.8 7.0 10.4

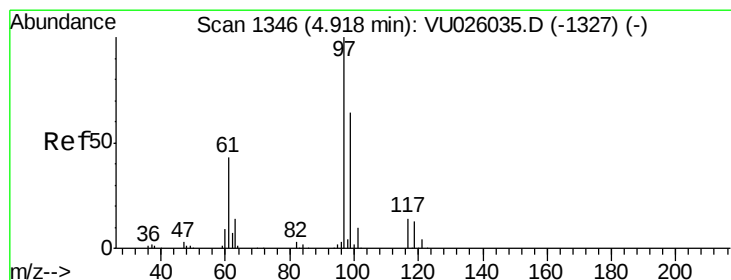
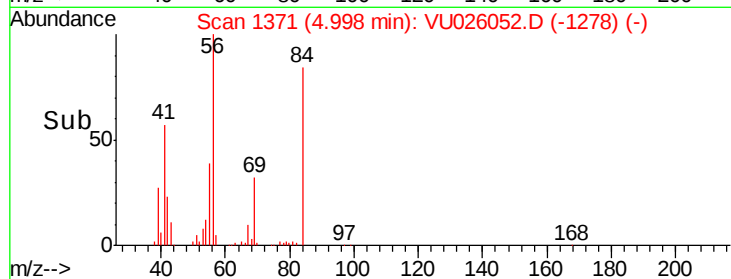
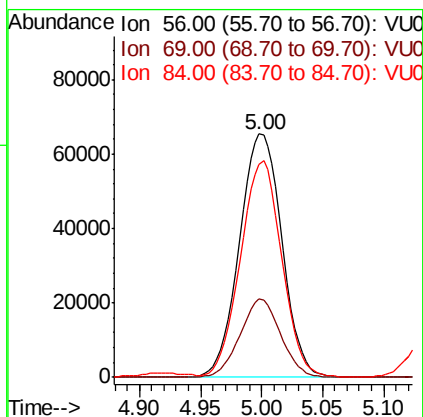
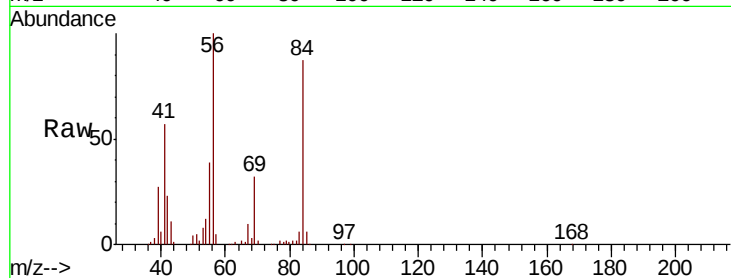




#29
Cyclohexane
Concen: 52.113 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

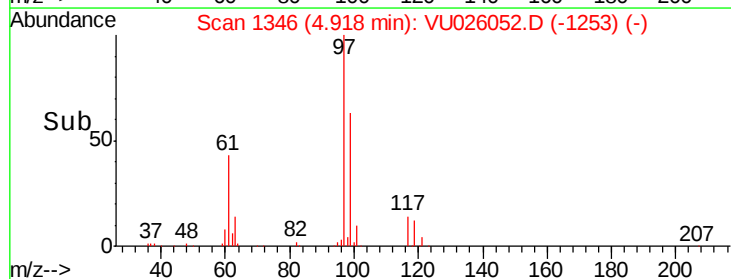
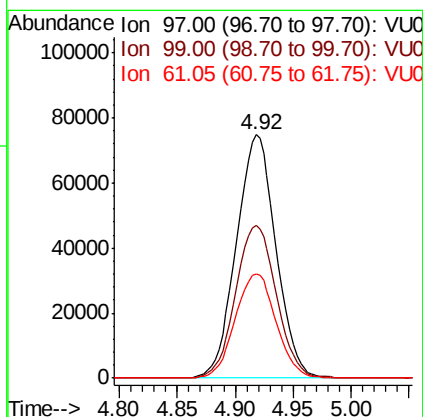
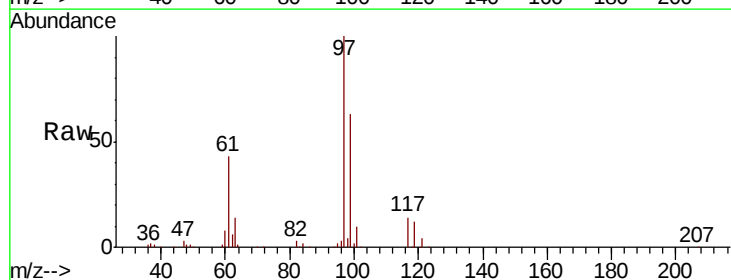
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

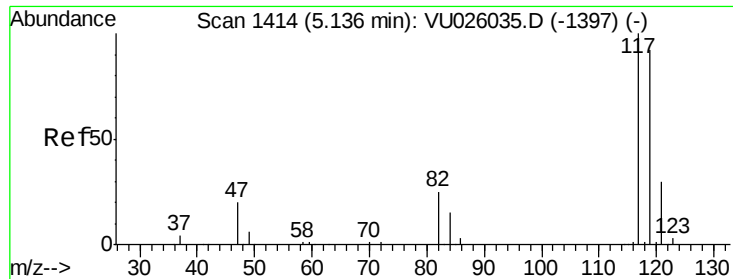
Tot Ion: 56 Resp: 157502
Ion Ratio Lower Upper
56 100
69 30.8 24.6 37.0
84 86.9 68.6 103.0



#30
1,1,1-Trichloroethane
Concen: 52.055 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

Tgt Ion: 97 Resp: 177608
Ion Ratio Lower Upper
97 100
99 65.0 51.8 77.6
61 44.3 34.7 52.1





#31

Carbon tetrachloride

Concen: 52.635 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

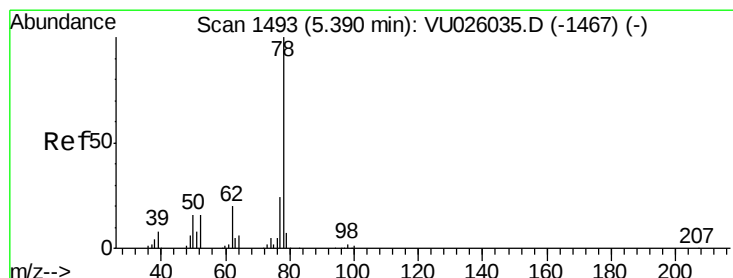
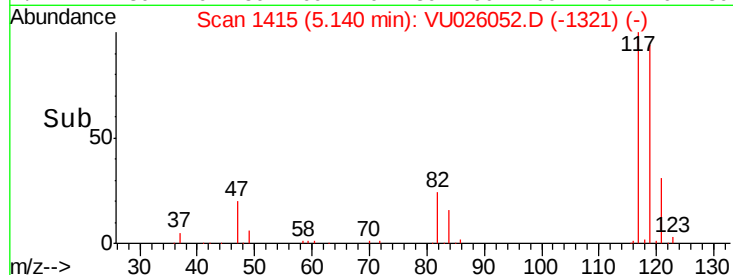
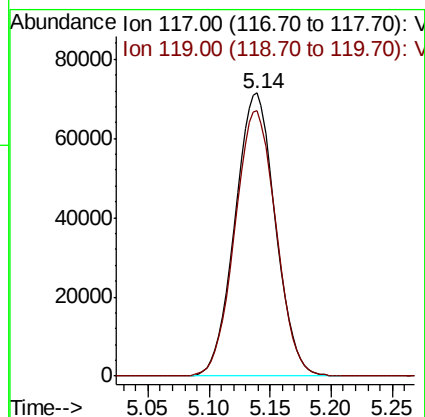
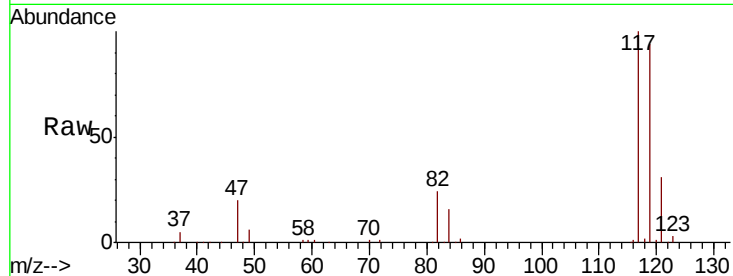
VSTD05052

Tot Ion:117 Resp: 163990

Ion Ratio Lower Upper

117 100

119 95.5 76.3 114.5



#33

Benzene

Concen: 53.843 ug/L

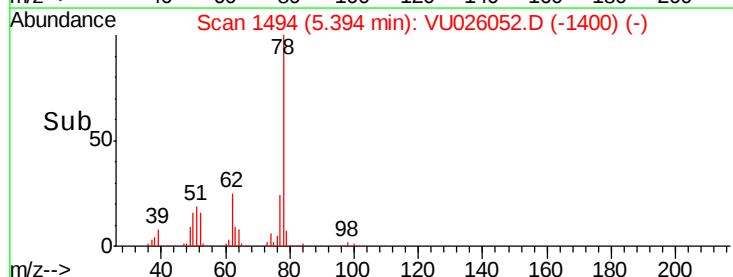
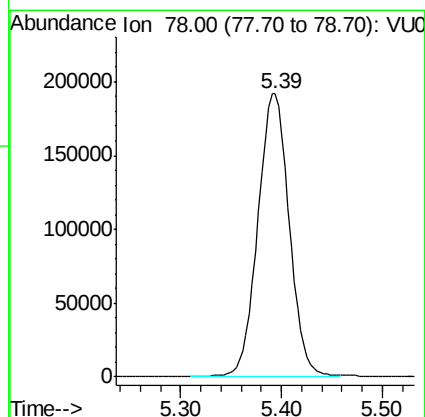
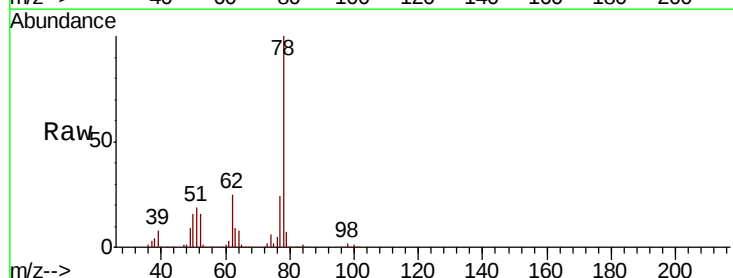
RT: 5.39 min Scan# 1494

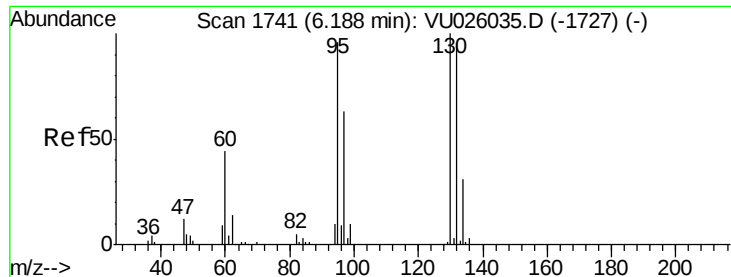
Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Tgt Ion: 78 Resp: 414699

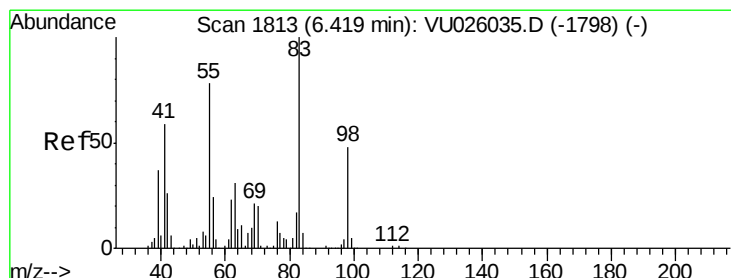
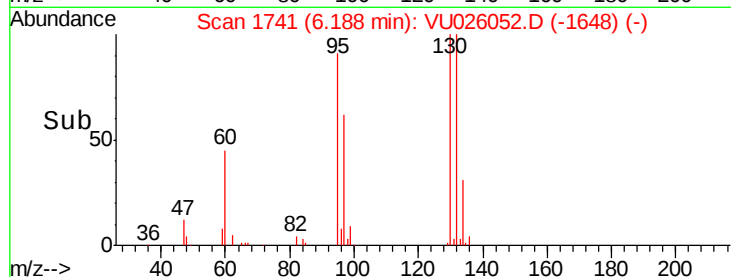
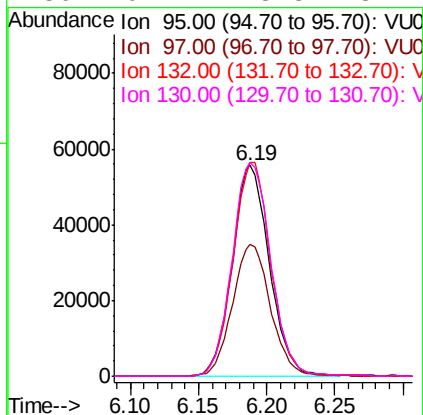
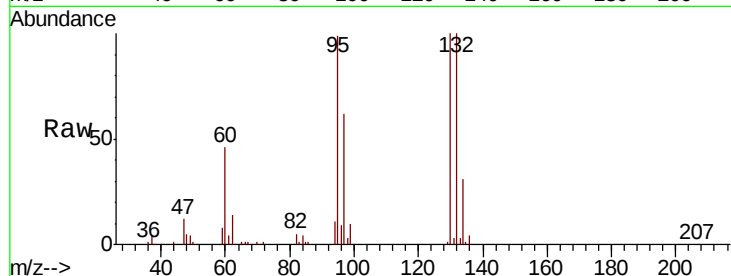




#34
 Trichloroethene
 Concen: 52.359 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

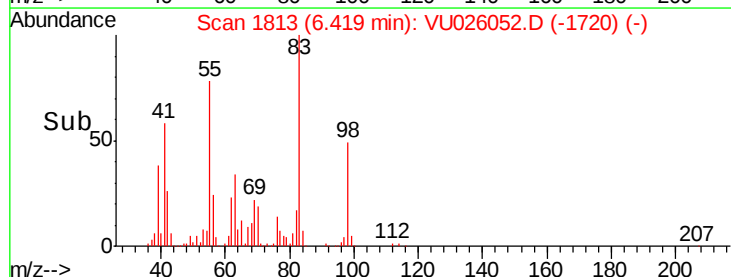
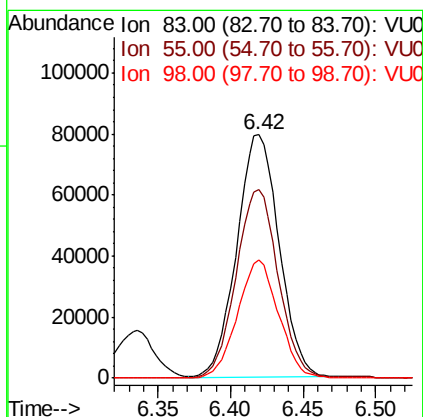
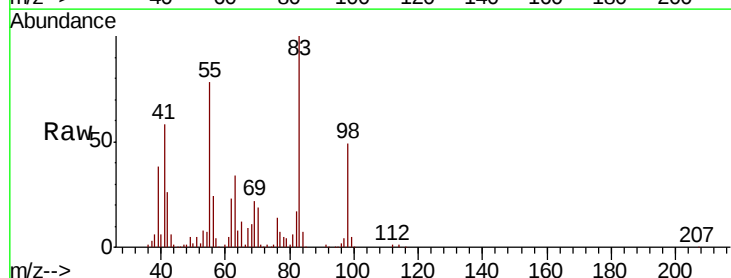
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

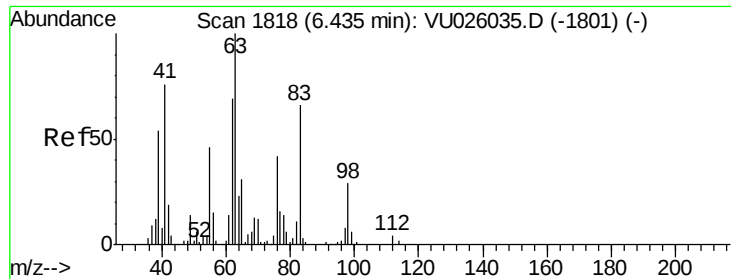
Tot Ion:	95	Resp:	105352
Ion	Ratio	Lower	Upper
95	100		
97	62.6	45.2	84.0
132	101.0	68.2	126.6
130	101.1	73.8	137.2



#35
 Methylcyclohexane
 Concen: 52.496 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Tgt Ion:	83	Resp:	161285
Ion	Ratio	Lower	Upper
83	100		
55	77.5	61.0	91.6
98	47.2	38.1	57.1

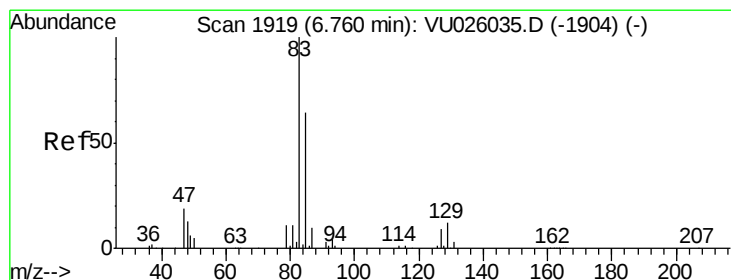
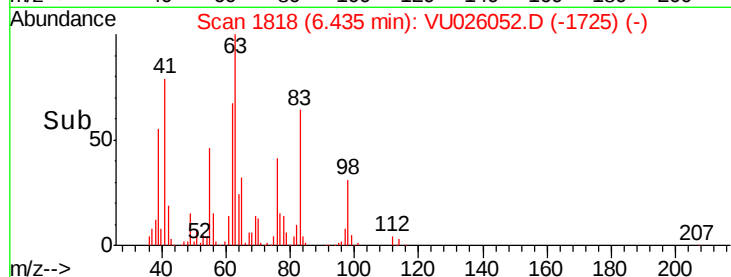
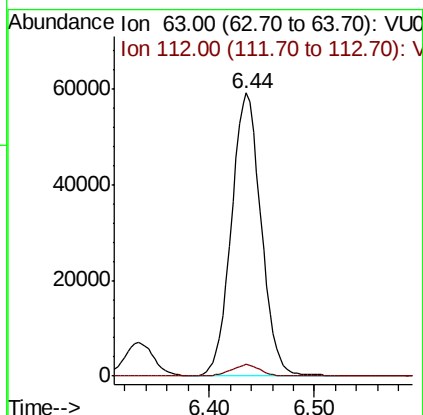
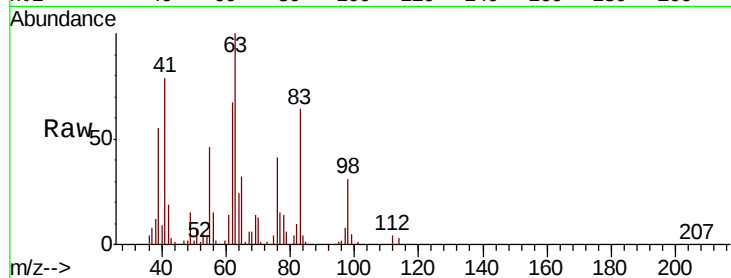




#37
 1,2-Dichloropropane
 Concen: 54.802 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

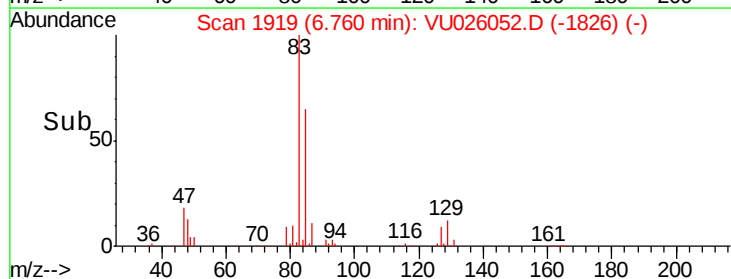
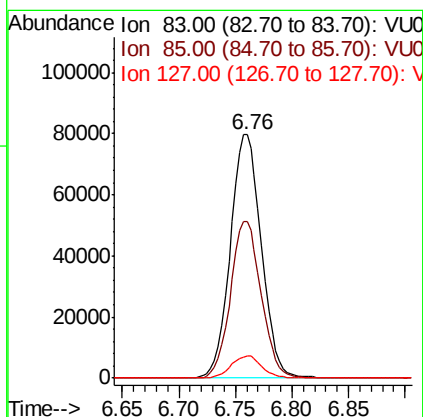
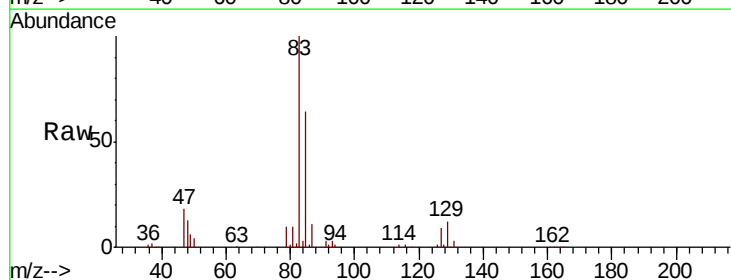
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

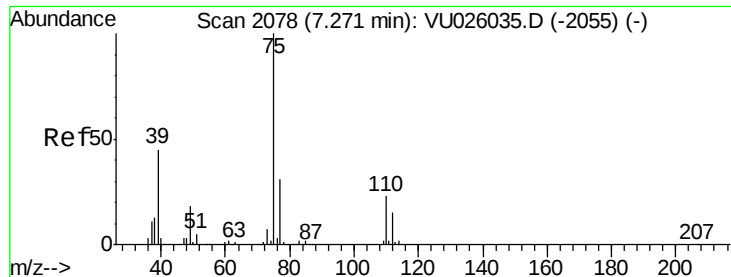
Tot Ion: 63 Resp: 115492
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.2 4.8



#38
 Bromodichloromethane
 Concen: 54.088 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Tgt Ion: 83 Resp: 151859
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.3 84.1
 127 9.0 7.4 11.2

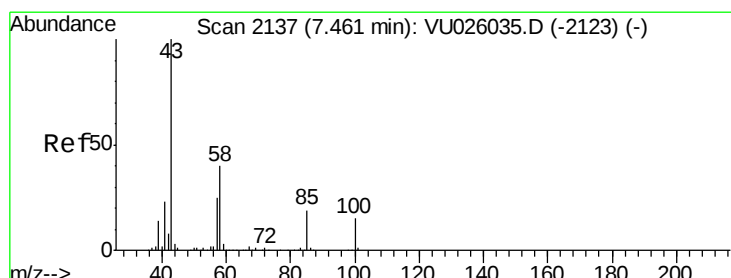
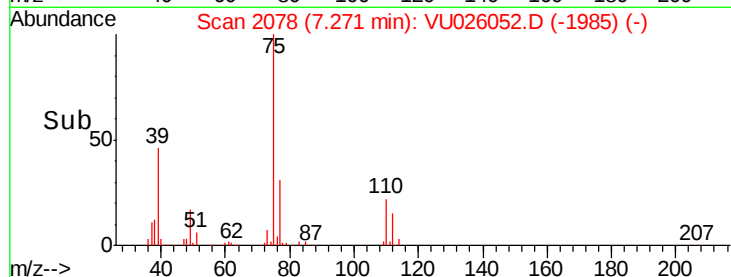
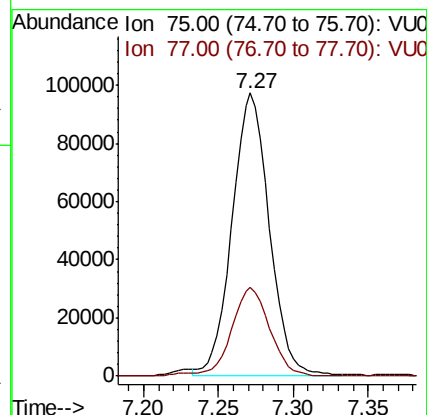
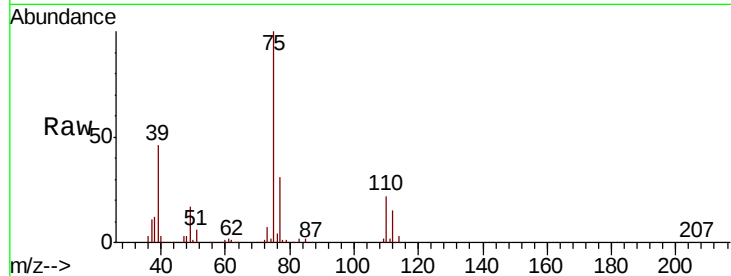




#39
 cis-1,3-Dichloropropene
 Concen: 52.959 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

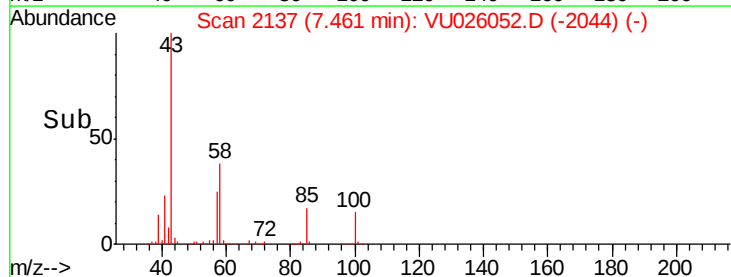
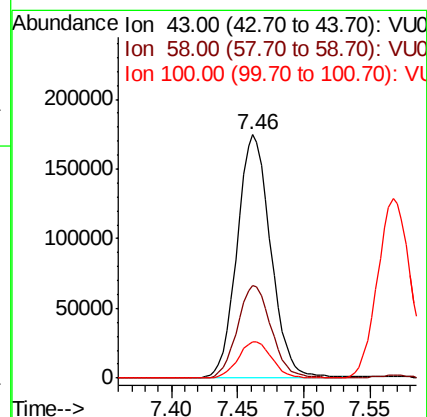
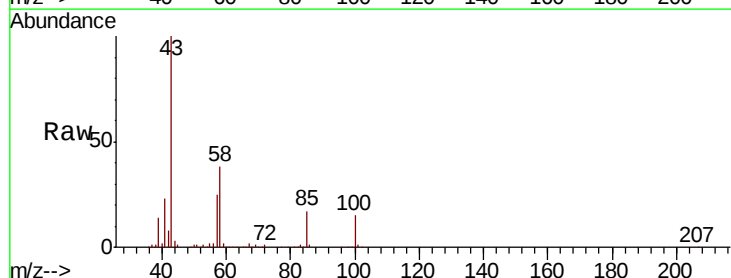
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05052

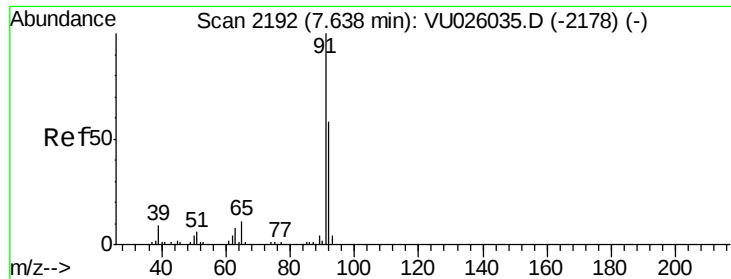
Tot Ion: 75 Resp: 169151
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 106.536 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Tgt Ion: 43 Resp: 308486
 Ion Ratio Lower Upper
 43 100
 58 38.2 30.6 46.0
 100 15.1 11.8 17.6





#42

Toluene

Concen: 54.768 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

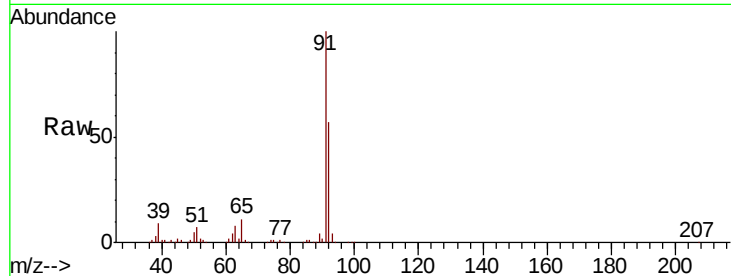
VSTD05052

Tot Ion: 91 Resp: 447738

Ion Ratio Lower Upper

91 100

92 57.1 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

250000

200000

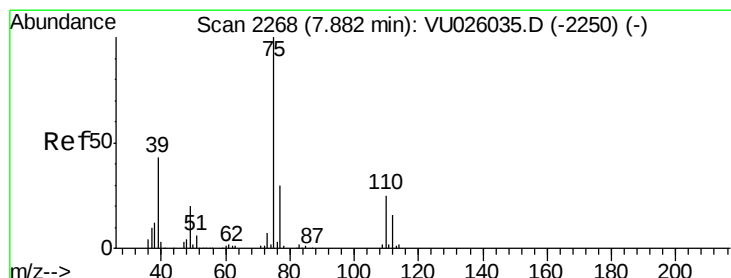
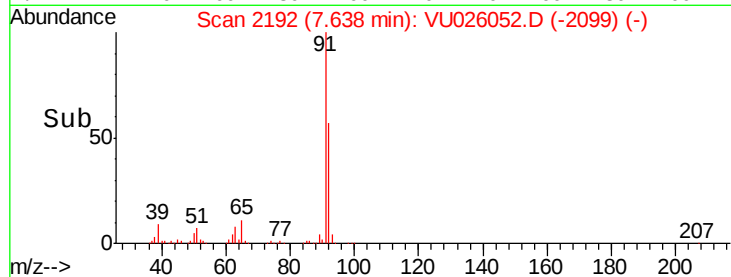
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 53.630 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU026052.D

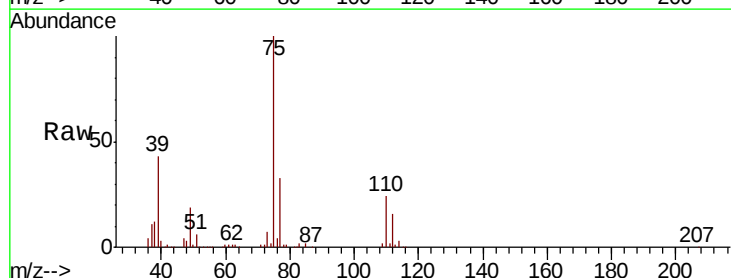
Acq: 10 Aug 2018 18:47

Tgt Ion: 75 Resp: 163043

Ion Ratio Lower Upper

75 100

77 32.8 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

100000

80000

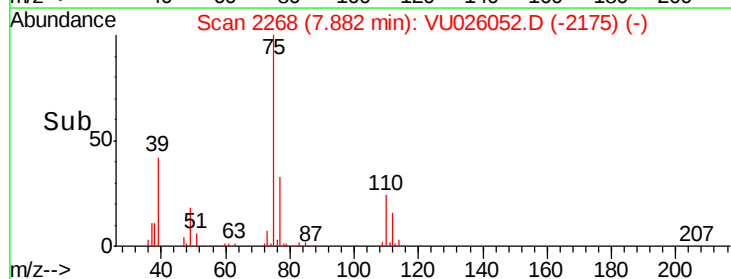
60000

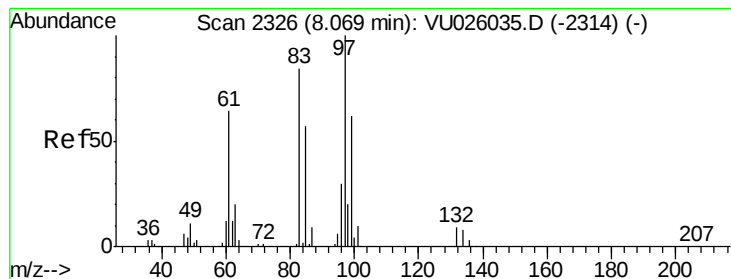
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 54.014 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tot Ion: 97 Resp: 108525

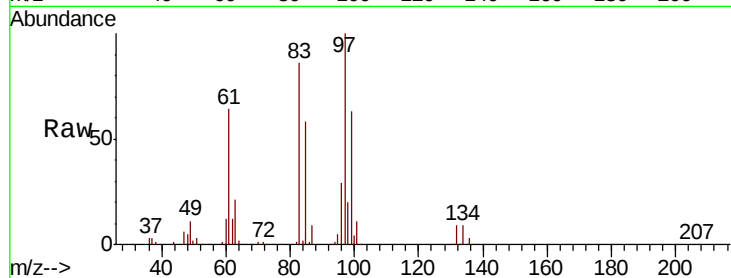
Ion Ratio Lower Upper

97 100

99 62.7 41.6 77.2

83 85.9 59.0 109.6

85 57.6 37.9 70.5

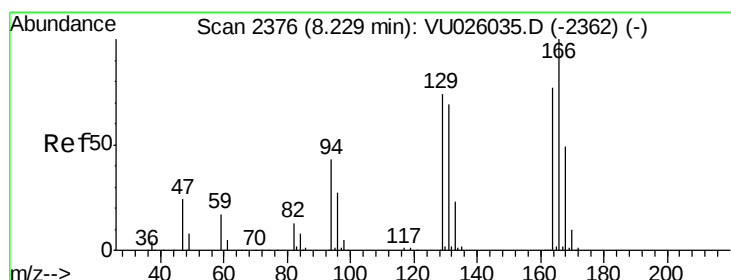
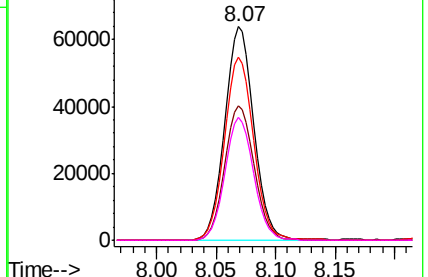
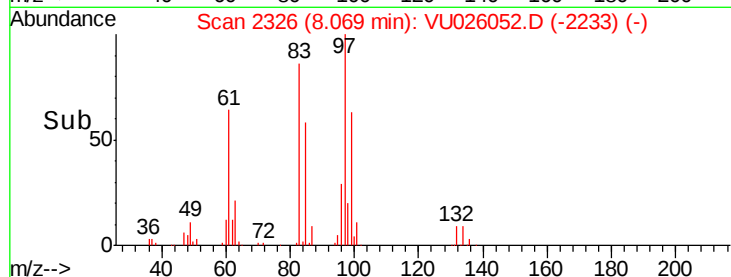


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 53.538 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Tgt Ion: 164 Resp: 91676

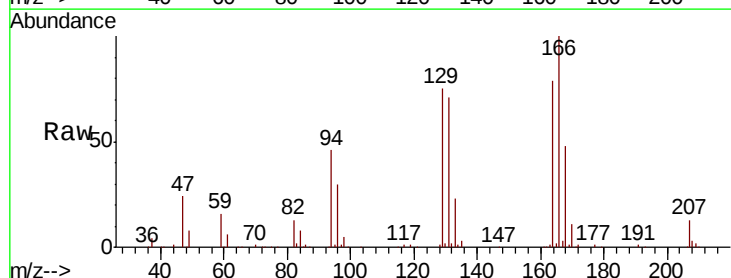
Ion Ratio Lower Upper

164 100

129 95.1 64.8 120.3

131 89.8 62.8 116.6

166 126.9 89.0 165.4

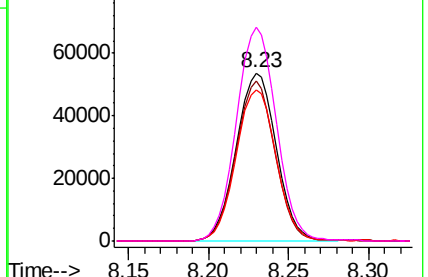
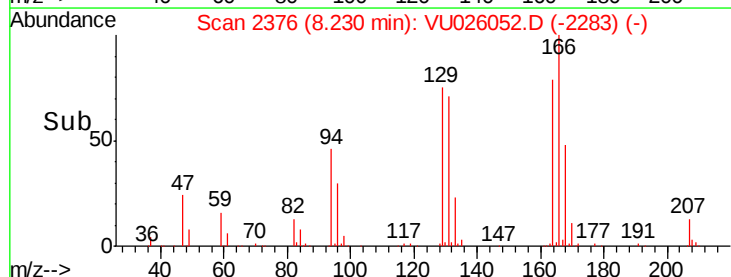


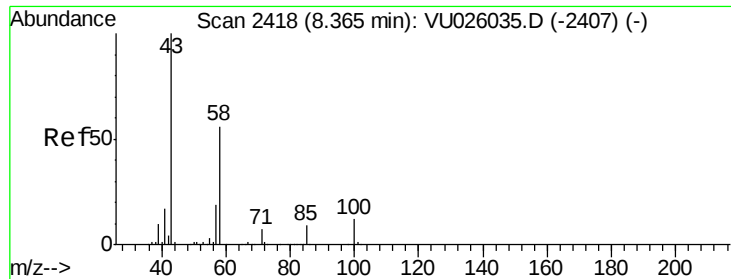
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

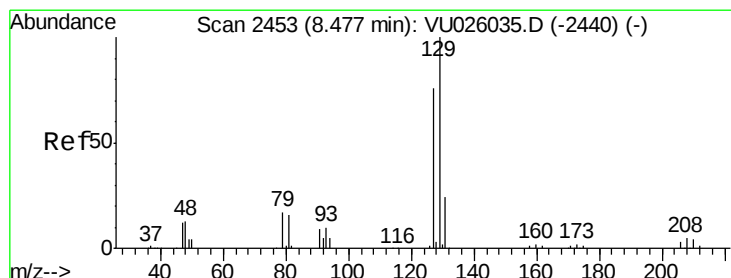
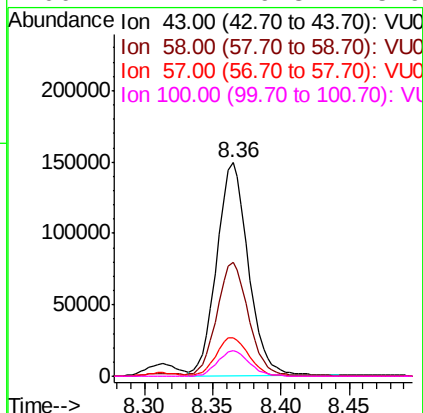
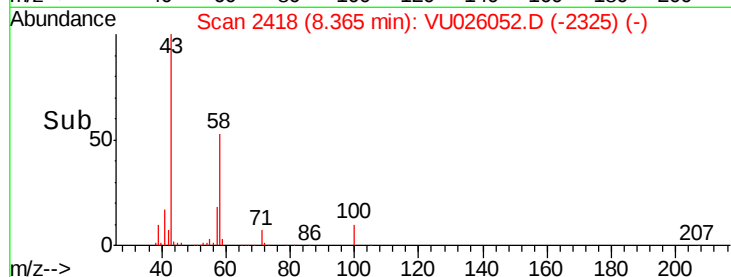
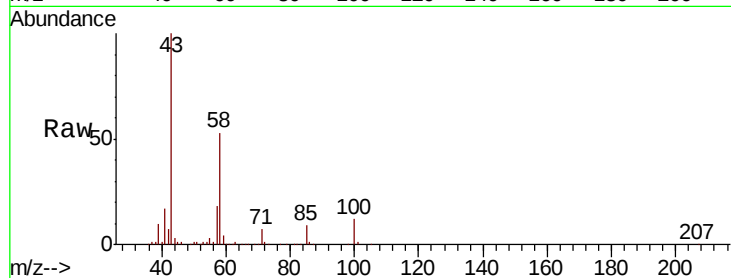




#48
2-Hexanone
Concen: 106.438 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

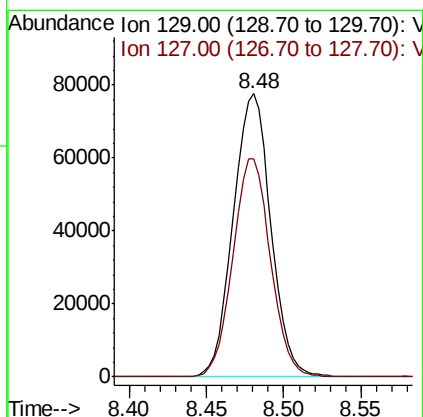
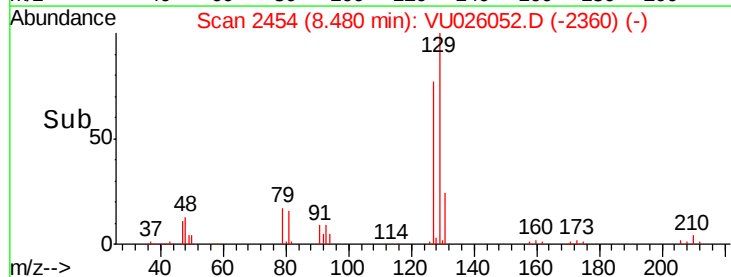
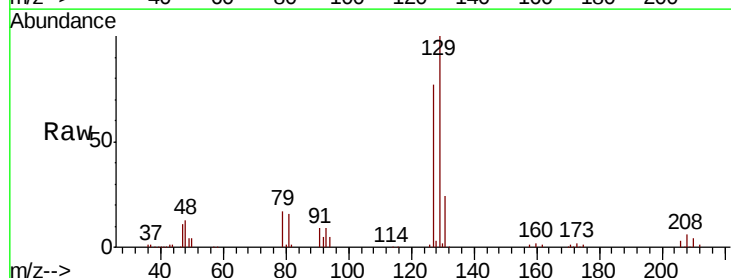
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

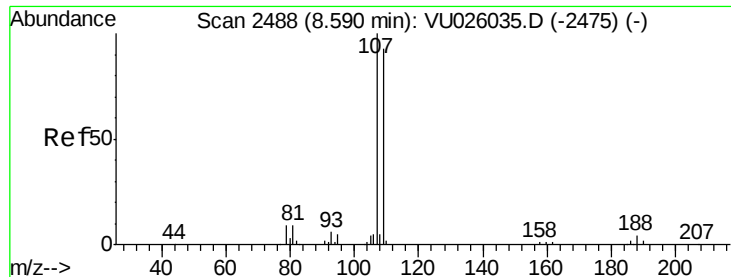
Tot Ion: 43 Resp: 240113
Ion Ratio Lower Upper
43 100
58 53.0 43.6 65.4
57 18.8 15.1 22.7
100 11.7 9.3 13.9



#49
Dibromochloromethane
Concen: 54.156 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

Tgt Ion: 129 Resp: 131210
Ion Ratio Lower Upper
129 100
127 77.2 53.5 99.3

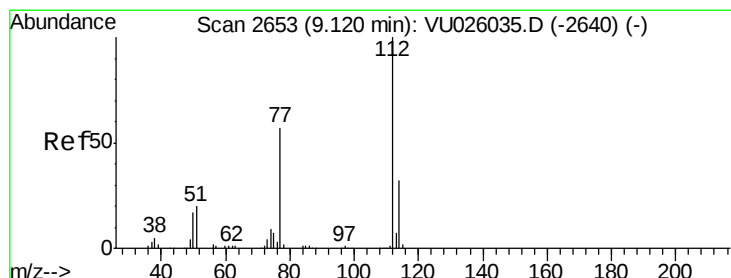
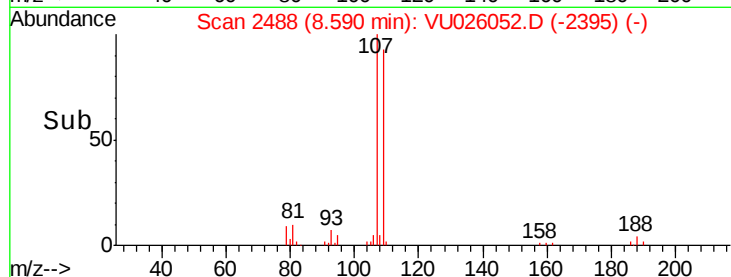
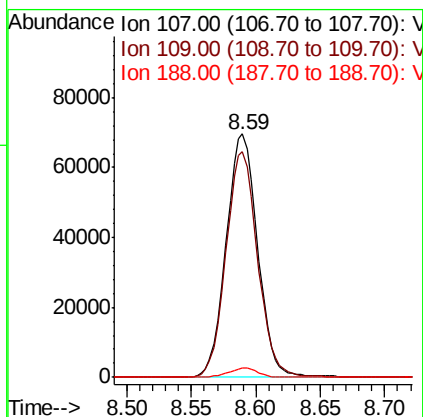
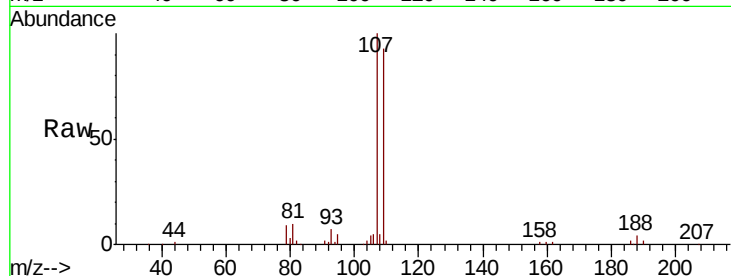




#50
1,2-Dibromoethane
Concen: 54.028 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

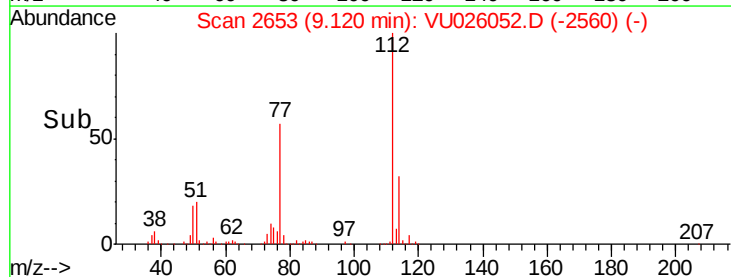
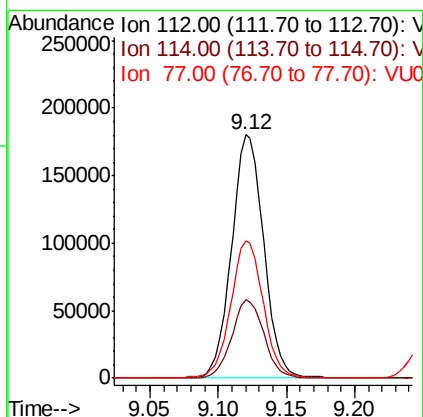
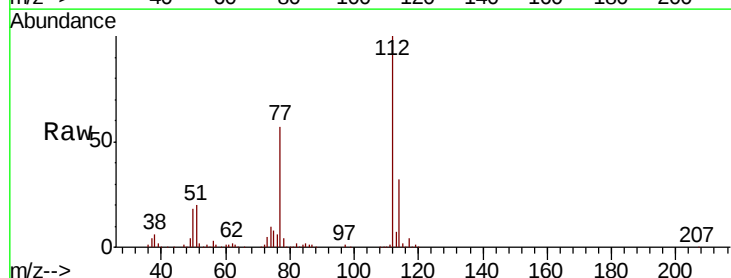
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

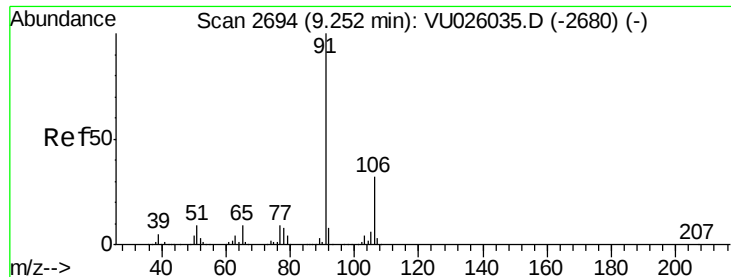
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.6	66.1	122.7
188	3.7	2.9	4.3



#51
Chlorobenzene
Concen: 53.494 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. 0.00 min
Lab File: VU026052.D
Acq: 10 Aug 2018 18:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.7	42.3
77	56.6	45.2	67.8





#52

Ethylbenzene

Concen: 53.825 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

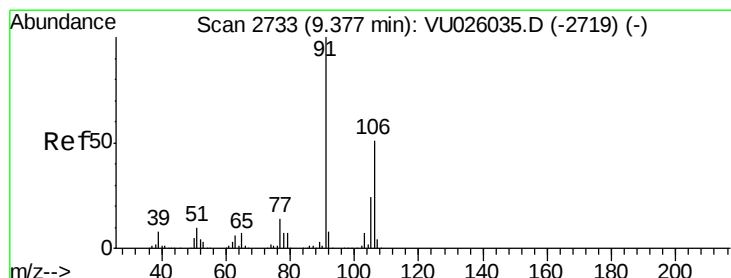
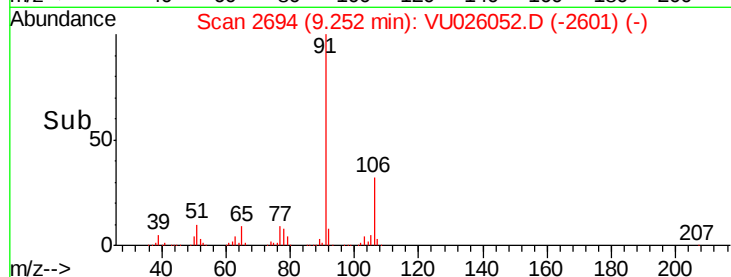
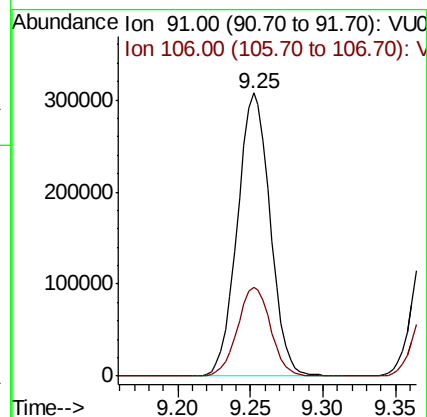
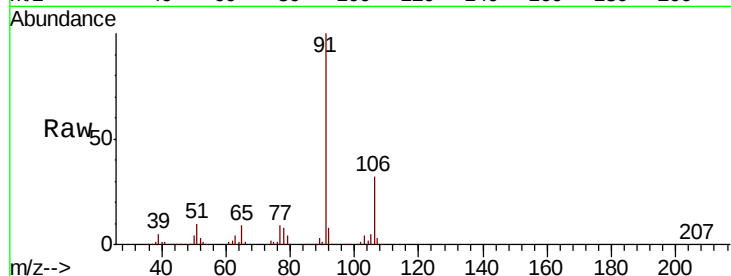
VSTD05052

Tot Ion: 91 Resp: 481498

Ion Ratio Lower Upper

91 100

106 31.5 22.0 41.0



#53

m,p-Xylene

Concen: 55.801 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU026052.D

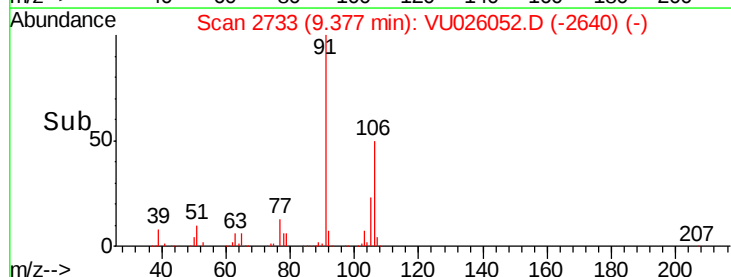
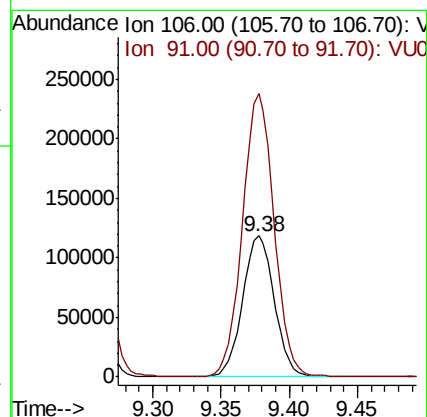
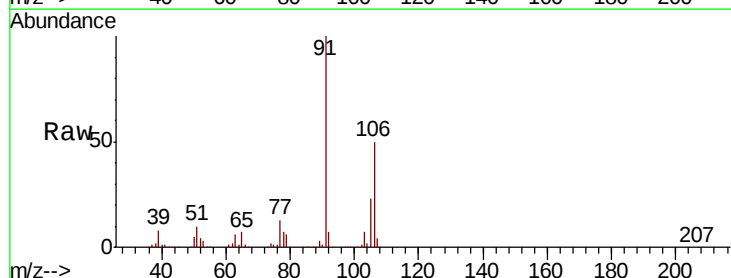
Acq: 10 Aug 2018 18:47

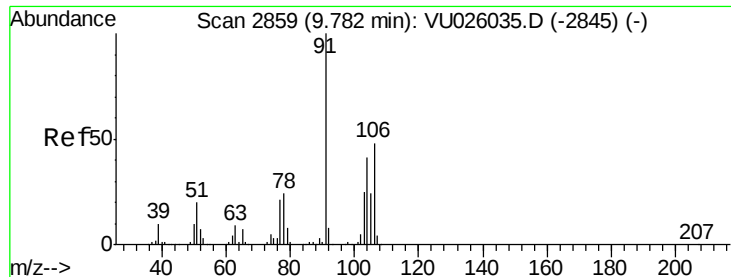
Tgt Ion: 106 Resp: 190741

Ion Ratio Lower Upper

106 100

91 200.5 141.3 262.5





#54

o-xylene

Concen: 55.196 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

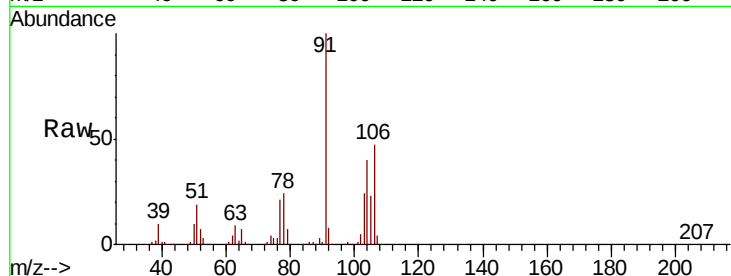
VSTD05052

Tot Ion:106 Resp: 187254

Ion Ratio Lower Upper

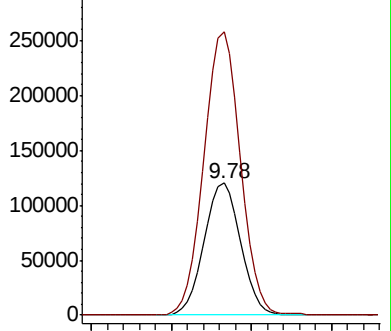
106 100

91 214.5 151.2 280.8

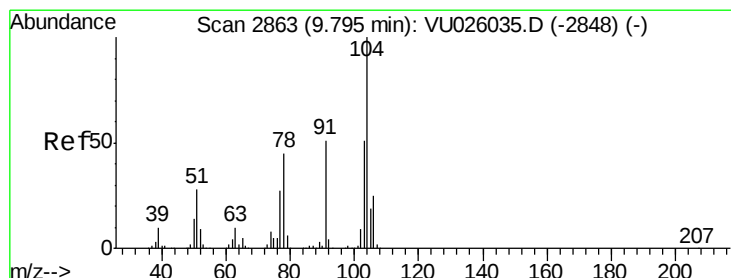
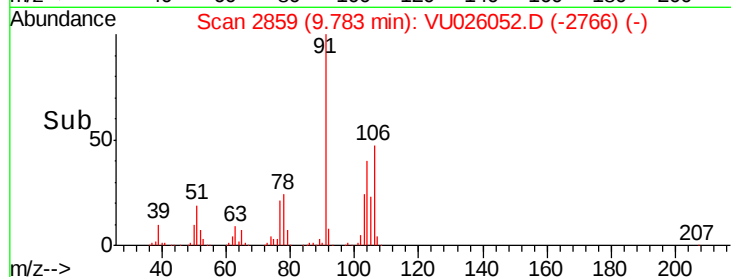


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



Time-->



#55

Styrene

Concen: 56.194 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU026052.D

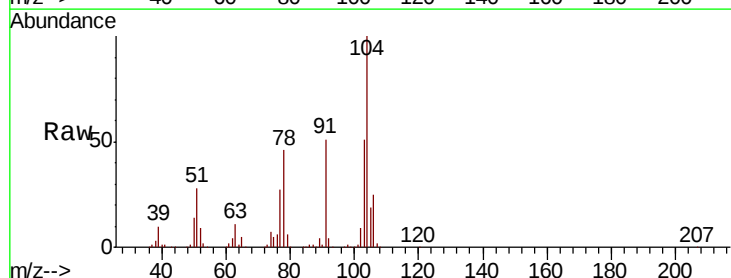
Acq: 10 Aug 2018 18:47

Tgt Ion:104 Resp: 317393

Ion Ratio Lower Upper

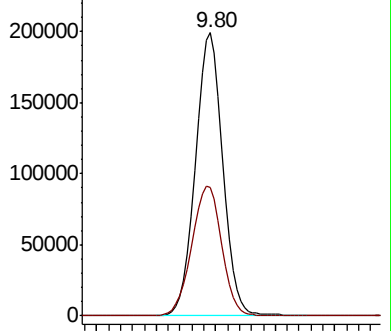
104 100

78 45.5 32.1 59.5

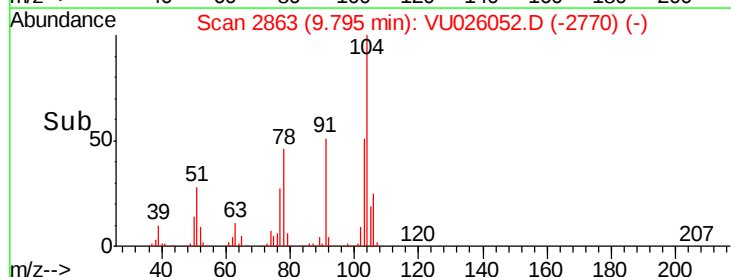


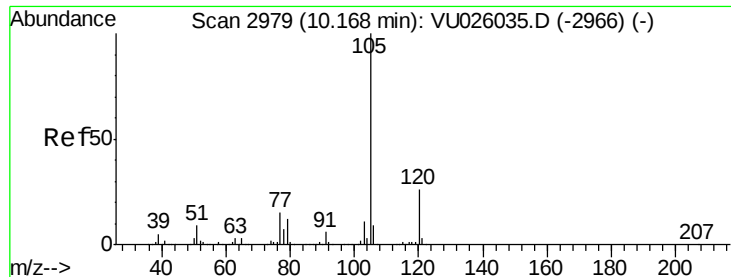
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



Time-->





#56

Isopropylbenzene

Concen: 55.519 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

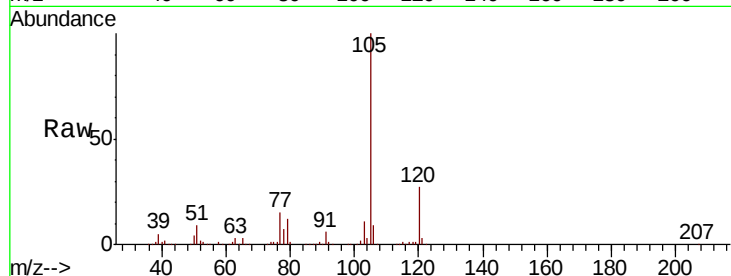
Tot Ion:105 Resp: 485224

Ion Ratio Lower Upper

105 100

120 27.3 21.7 32.5

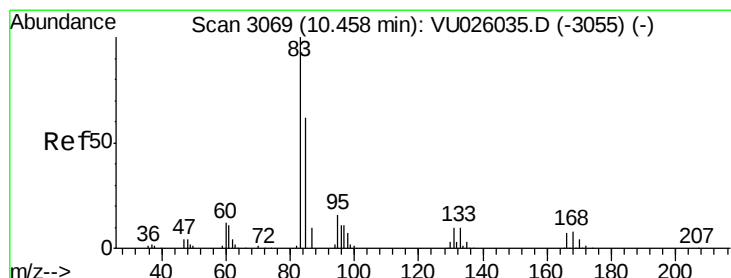
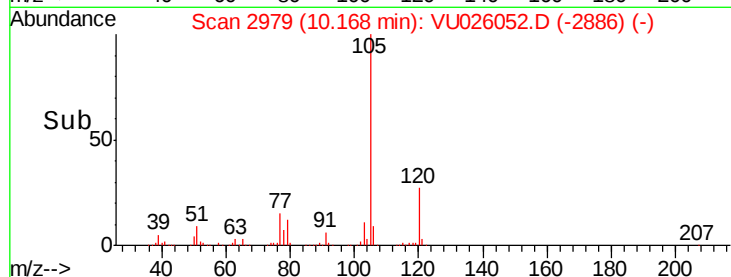
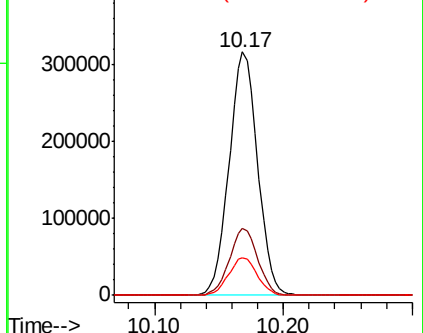
77 15.6 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 53.827 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

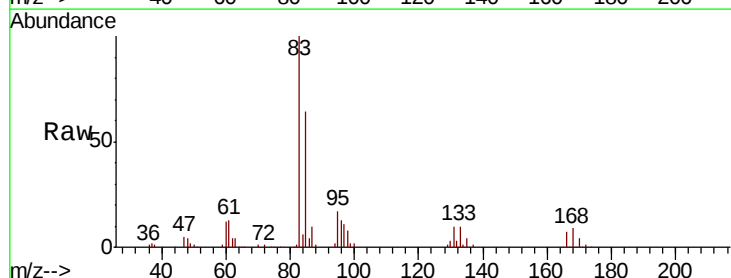
Tgt Ion: 83 Resp: 183806

Ion Ratio Lower Upper

83 100

85 64.3 45.0 83.6

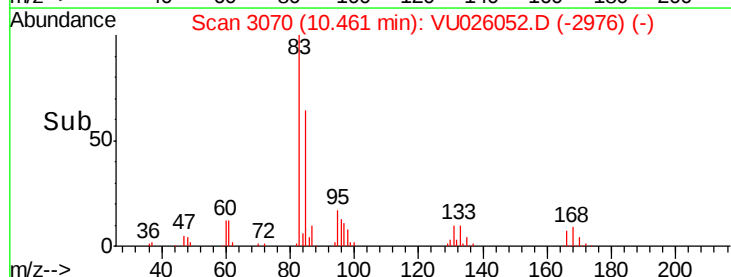
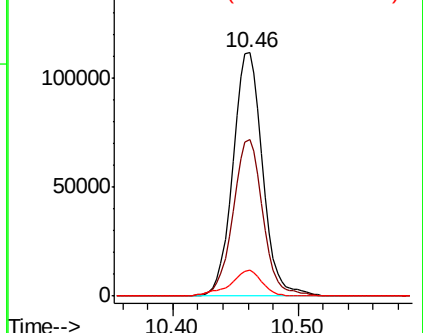
131 10.5 8.6 12.8

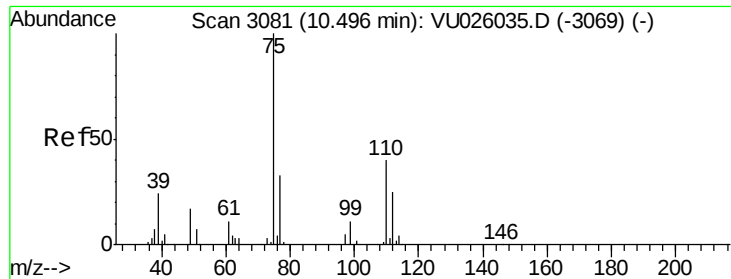


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

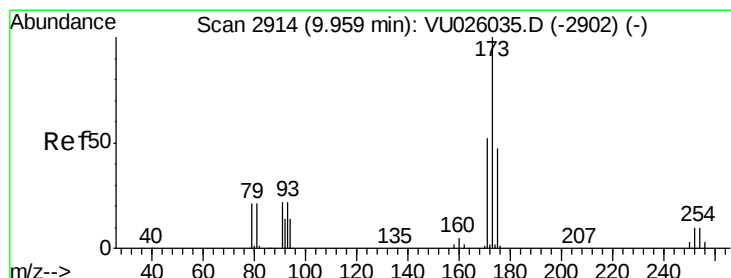
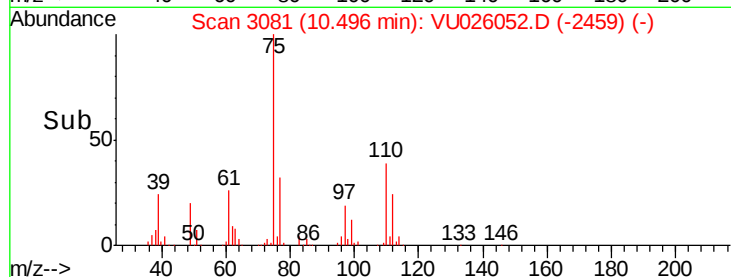
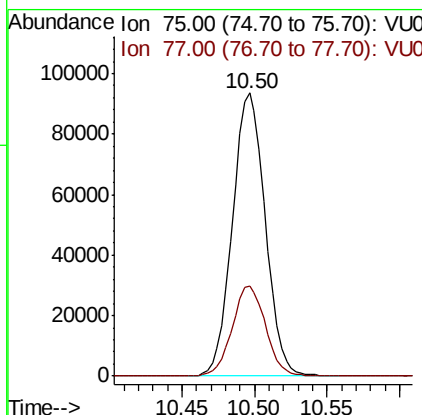
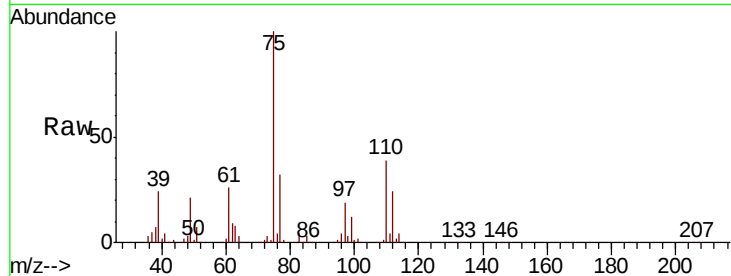




#59
 1,2,3-Trichloropropane
 Concen: 54.030 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

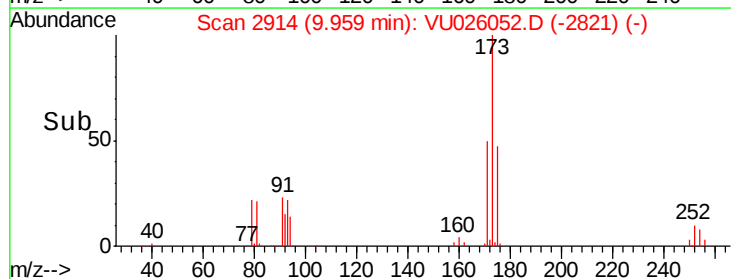
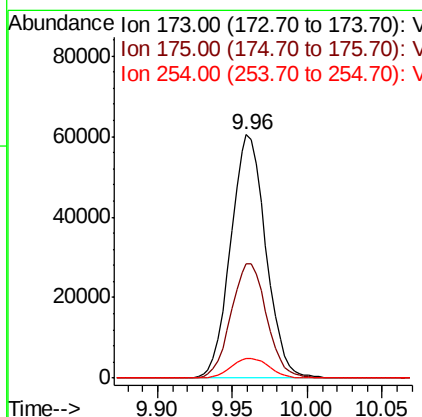
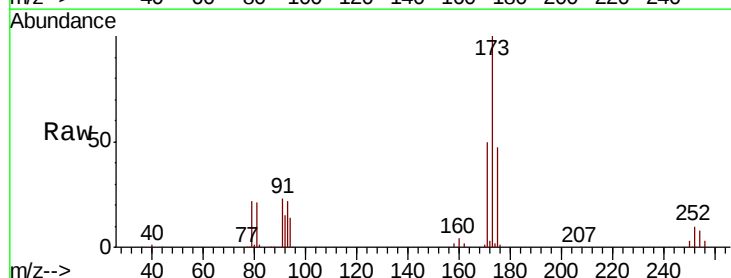
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

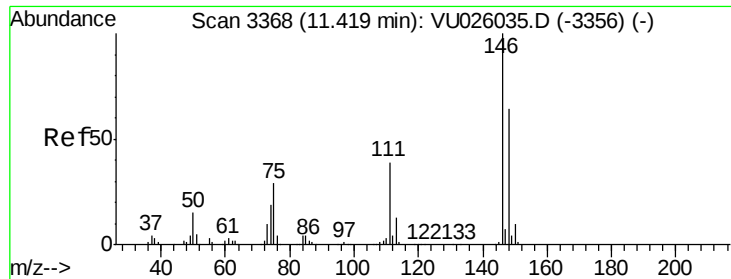
Tot Ion: 75 Resp: 146853
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.3 37.9



#61
 Bromoform
 Concen: 53.970 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Tgt Ion: 173 Resp: 98960
 Ion Ratio Lower Upper
 173 100
 175 47.7 38.9 58.3
 254 8.8 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 53.403 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

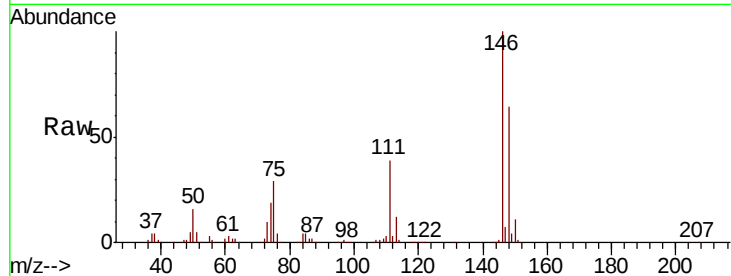
Tot Ion:146 Resp: 225153

Ion Ratio Lower Upper

146 100

111 38.9 27.9 51.9

148 64.4 46.0 85.4

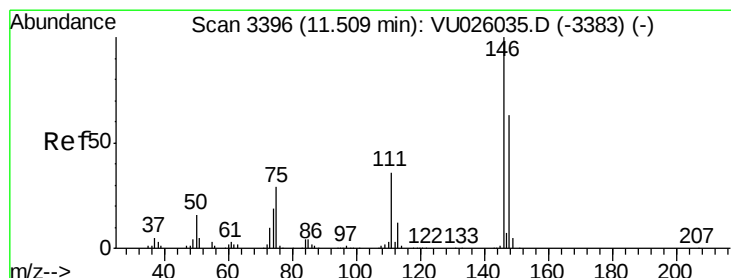
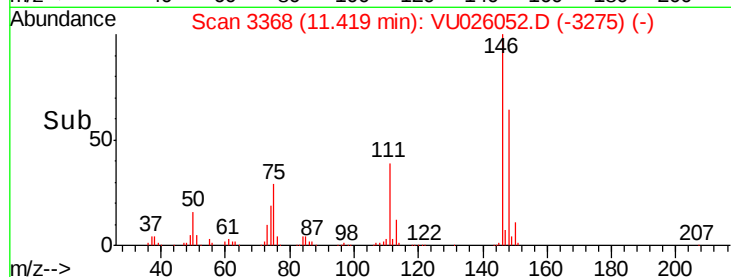
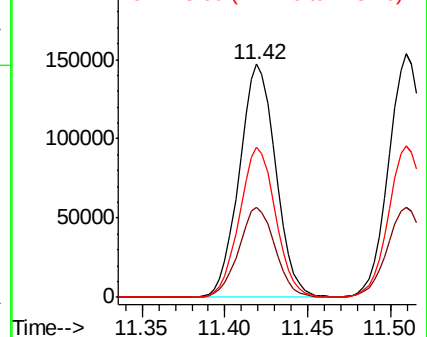


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 52.835 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

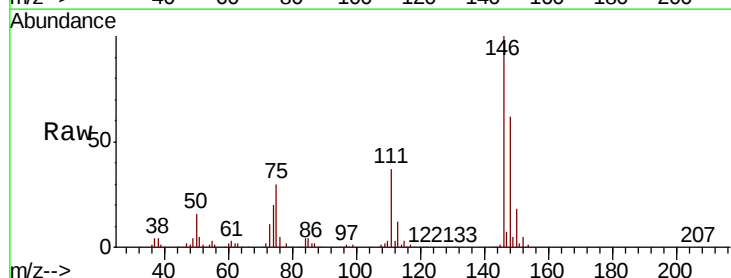
Tgt Ion:146 Resp: 233514

Ion Ratio Lower Upper

146 100

111 37.0 26.4 49.0

148 62.0 43.8 81.4

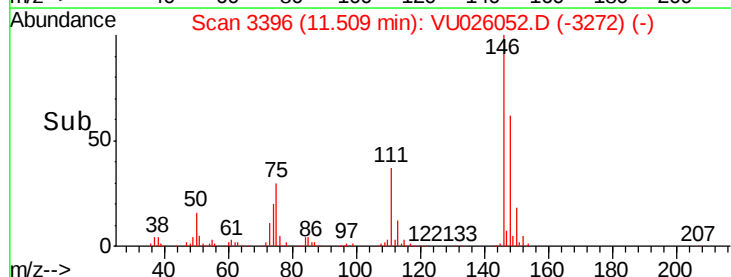
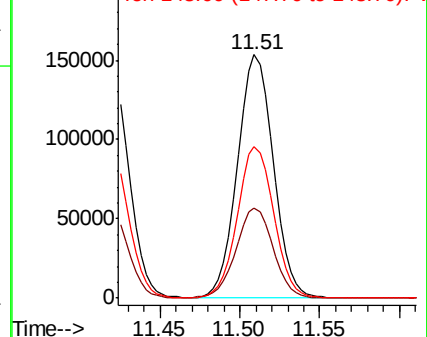


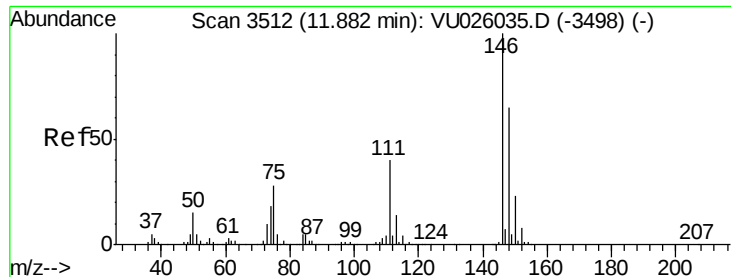
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

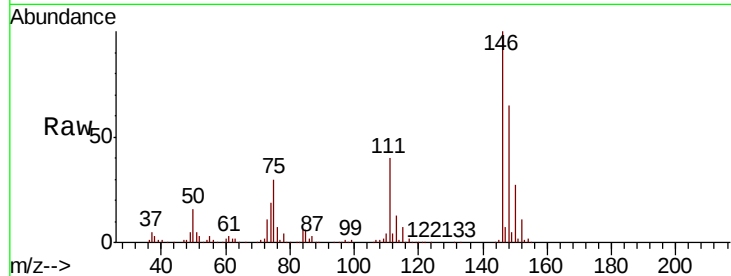




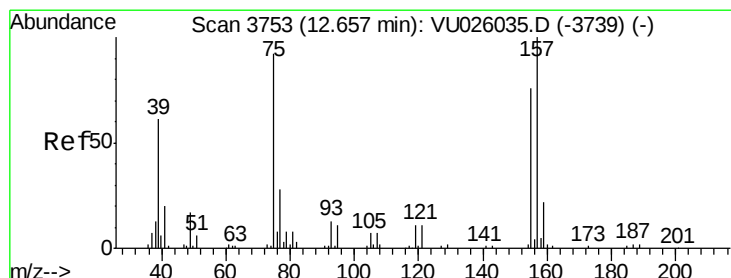
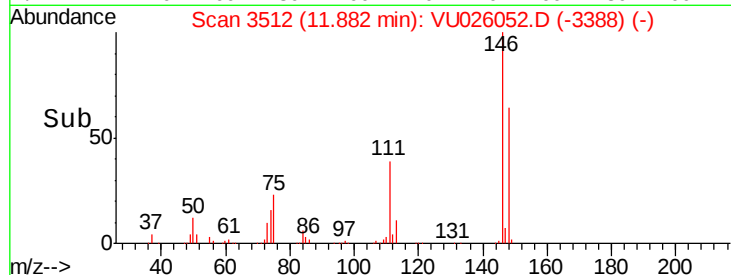
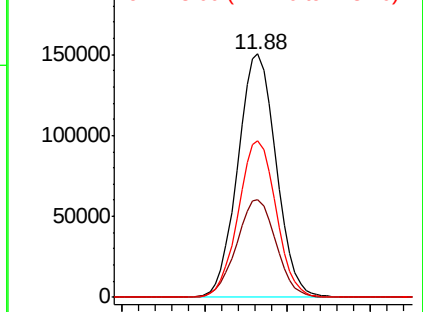
#65
 1,2-Dichlorobenzene
 Concen: 54.004 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	32.4	48.6
148	64.5	50.1	75.1

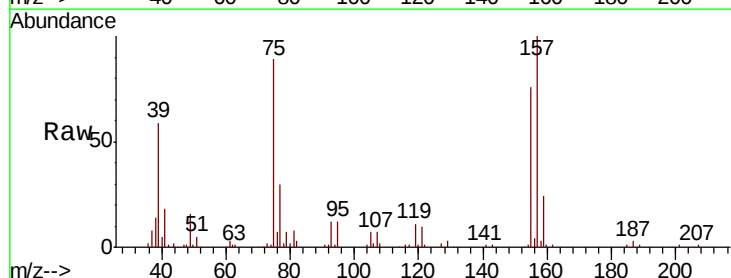


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

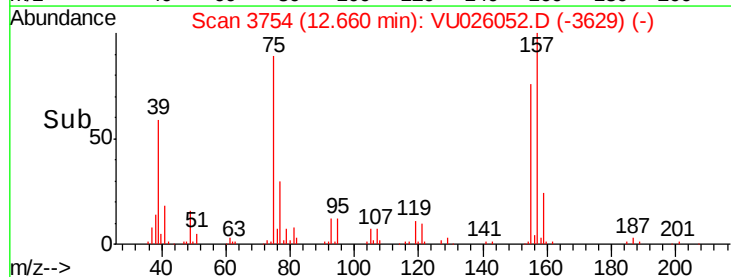
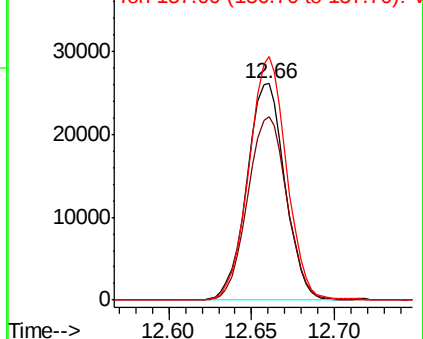


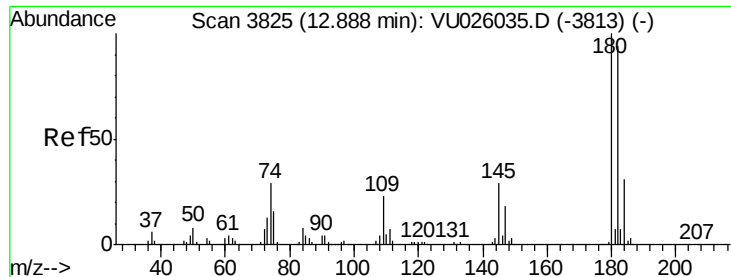
#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.959 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.0	71.8	107.8
157	112.4	93.0	139.6



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

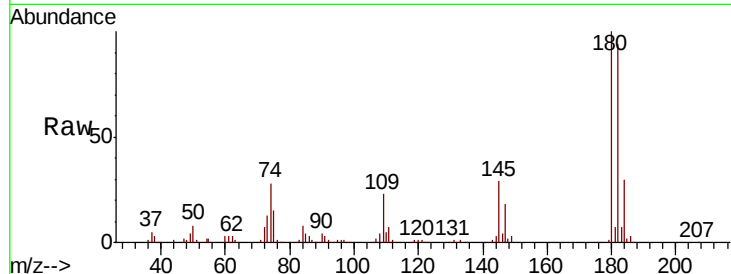




#67
 1,3,5-Trichlorobenzene
 Concen: 53.755 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.5	114.7
184	30.1	24.3	36.5
145	29.1	23.5	35.3



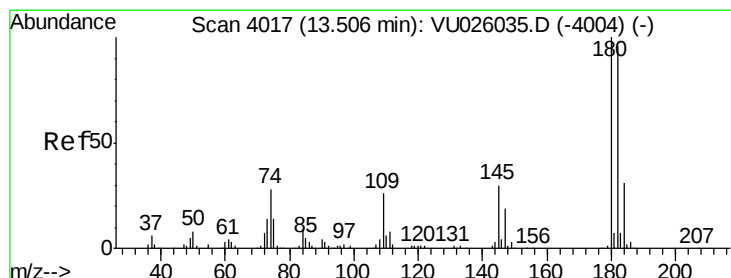
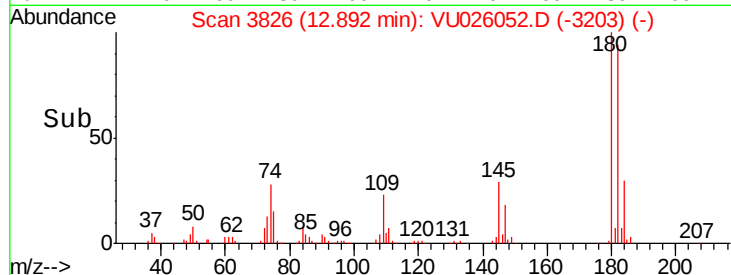
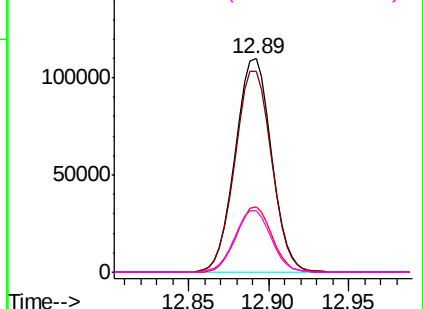
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

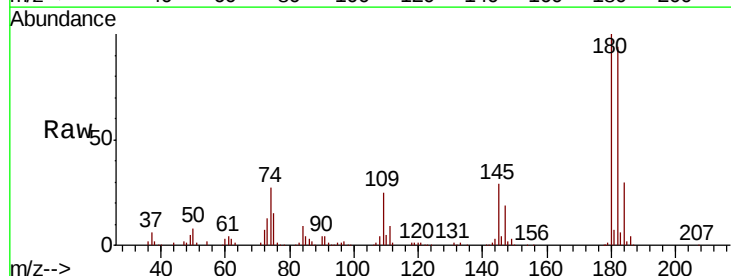
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.789 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU026052.D
 Acq: 10 Aug 2018 18:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.5	114.7
145	29.2	24.2	36.4

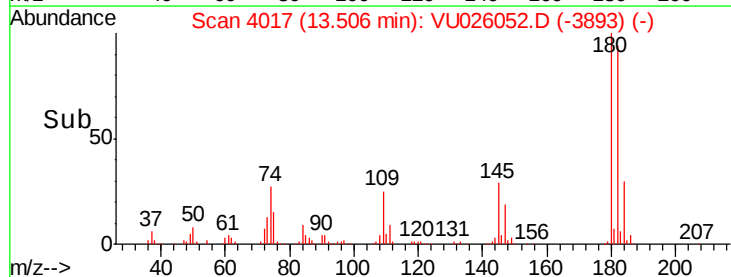
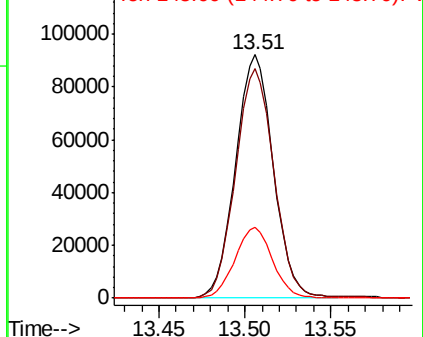


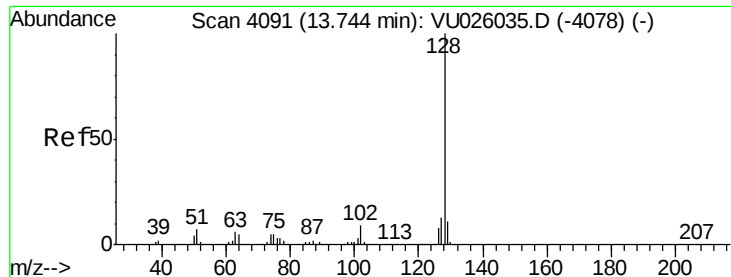
Abundance

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: 52.227 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

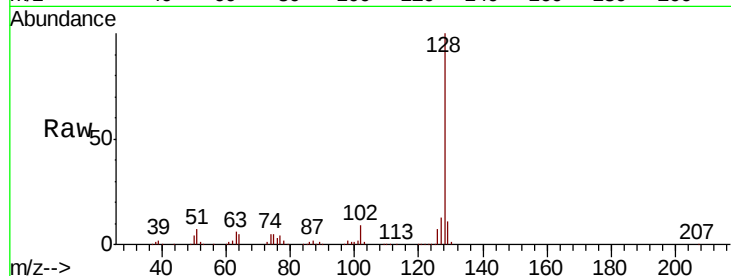
Tot Ion:128 Resp: 448969

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

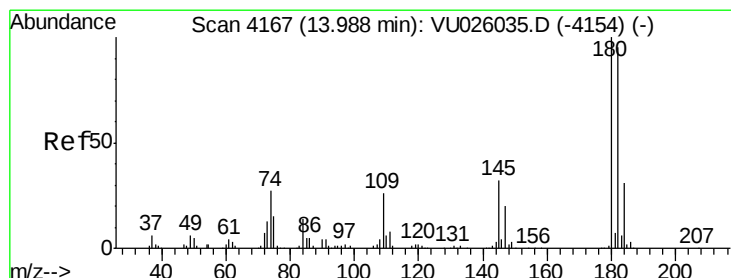
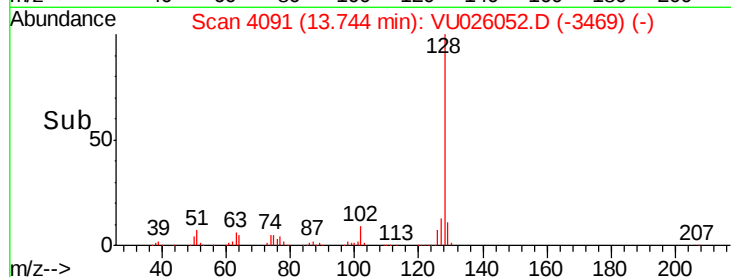
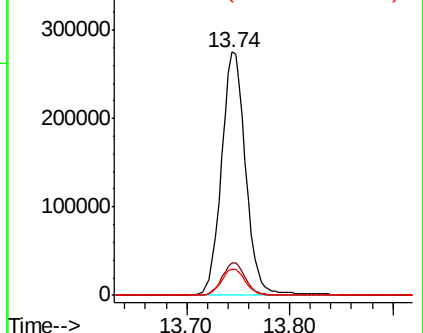
129 10.7 8.6 13.0



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: 54.505 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. 0.00 min

Lab File: VU026052.D

Acq: 10 Aug 2018 18:47

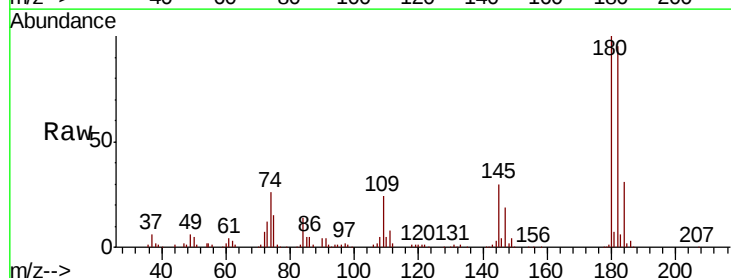
Tgt Ion:180 Resp: 156100

Ion Ratio Lower Upper

180 100

182 96.5 76.5 114.7

145 30.9 24.7 37.1



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

