

Data File : VU026896.D
Acq On : 19 Sep 2018 13:52
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Quant Time: Sep 20 02:32:30 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091718WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Sep 20 02:30:06 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	247290	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	235387	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	122164	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	61400	33.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	67.12%
7) Chloroethane-d5	0.00	69	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
11) 1,1-Dichloroethene-d2	2.27	63	137760	39.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.60%
21) 2-Butanone-d5	4.18	46	132389	109.06	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.06%
24) Chloroform-d	4.65	84	156878	46.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.46%
26) 1,2-Dichloroethane-d4	5.31	65	98568	46.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.26%
32) Benzene-d6	5.34	84	287394	43.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.14%
36) 1,2-Dichloropropane-d6	6.33	67	99802	46.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.90%
41) Toluene-d8	7.57	98	253030	42.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.92%
43) trans-1,3-Dichloropropene-	7.85	79	42887	45.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.38%
47) 2-Hexanone-d5	8.31	63	94994	113.72	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.72%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	151008	50.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.90%
64) 1,2-Dichlorobenzene-d4	11.86	152	116208	45.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.46%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	116069	49.664	ug/L	99
3) Chloromethane	1.33	50	121761	51.076	ug/L	99
5) Vinyl chloride	1.40	62	117314	50.566	ug/L	100
6) Bromomethane	1.62	94	50528	44.096	ug/L	99
8) Chloroethane	1.69	64	72457	49.838	ug/L	99
9) Trichlorofluoromethane	1.88	101	149618	51.905	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	86379	50.588	ug/L	99
12) 1,1-Dichloroethene	2.28	96	79739	49.724	ug/L	87
13) Acetone	2.32	43	107392	90.005	ug/L	99
14) Carbon disulfide	2.48	76	266212	48.105	ug/L	99
15) Methyl Acetate	2.61	43	107694	52.094	ug/L	100
16) Methylene chloride	2.70	84	101645	49.861	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	87880	49.757	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	274155	53.081	ug/L	100
19) 1,1-Dichloroethane	3.45	63	173971	51.070	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	97999	50.450	ug/L	98
22) 2-Butanone	4.26	43	144991	98.538	ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	52142	49.715	ug/L	98
25) Chloroform	4.67	83	172393	49.964	ug/L	98
27) 1,2-Dichloroethane	5.40	62	136270	50.611	ug/L	99
29) Cyclohexane	5.00	56	148788	54.440	ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	144257	51.514	ug/L	100
31) Carbon tetrachloride	5.13	117	128274	51.116	ug/L	100
33) Benzene	5.39	78	383789	52.589	ug/L	100
34) Trichloroethene	6.19	95	89581	51.153	ug/L	99
35) Methylcyclohexane	6.42	83	153649	53.824	ug/L	98
37) 1,2-Dichloropropane	6.43	63	104851	52.302	ug/L	100
38) Bromodichloromethane	6.76	83	127098	51.123	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	146954	51.893	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	259442	108.915	ug/L	100
42) Toluene	7.64	91	395358	53.533	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	137431	51.831	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	94540	51.726	ug/L	99
46) Tetrachloroethene	8.23	164	81668	52.606	ug/L	99
48) 2-Hexanone	8.36	43	202189	105.228	ug/L	100
49) Dibromochloromethane	8.48	129	104602	50.559	ug/L	98
50) 1,2-Dibromoethane	8.59	107	96957	50.884	ug/L	98
51) Chlorobenzene	9.12	112	257043	51.294	ug/L	99
52) Ethylbenzene	9.25	91	417115	53.919	ug/L	99
53) m,p-Xylene	9.38	106	166565	56.008	ug/L	99
54) o-xylene	9.78	106	160647	55.440	ug/L	97
55) Styrene	9.79	104	280005	55.970	ug/L	99
56) Isopropylbenzene	10.17	105	414084	55.944	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	155733	50.659	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	120270	50.085	ug/L	99
61) Bromoform	9.96	173	76788	47.799	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	190857	51.249	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	201073	49.033	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	211178	51.212	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	29650	47.396	ug/L	94
67) 1,3,5-Trichlorobenzene	12.89	180	150547	52.239	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	127919	51.509	ug/L	99
69) Naphthalene	13.75	128	401266	54.846	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	146504	53.571	ug/L	99

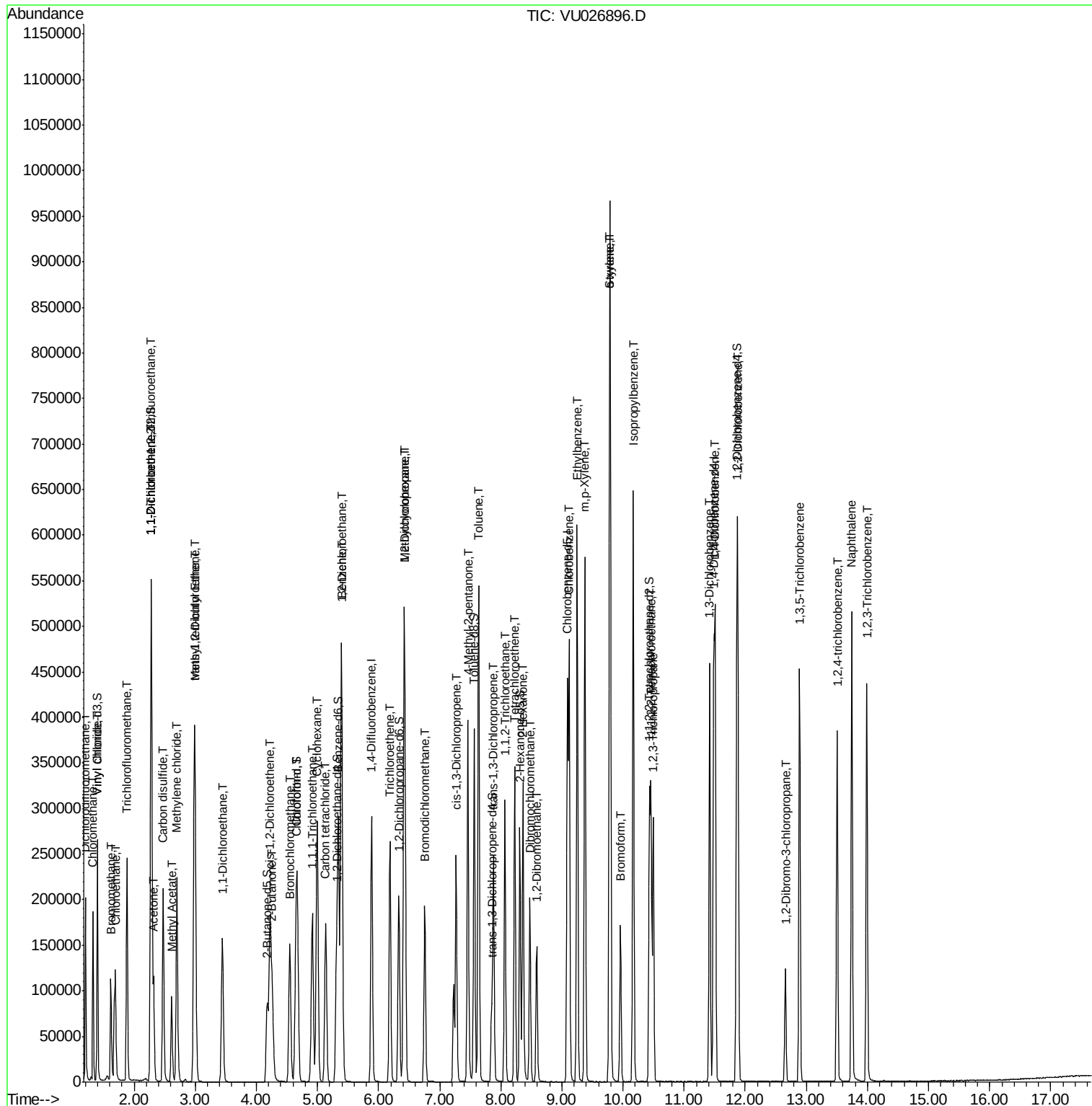
(#) = qualifier out of range (m) = manual integration (+) = signals summed

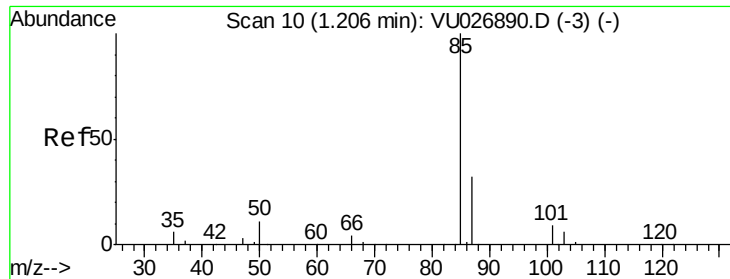
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#2

Dichlorodifluoromethane

Concen: 49.664 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

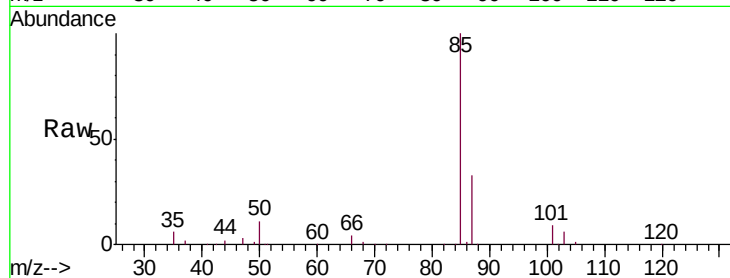
VSTD05050

Tgt Ion: 85 Resp: 116069

Ion Ratio Lower Upper

85 100

87 32.6 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.21

120000

100000

80000

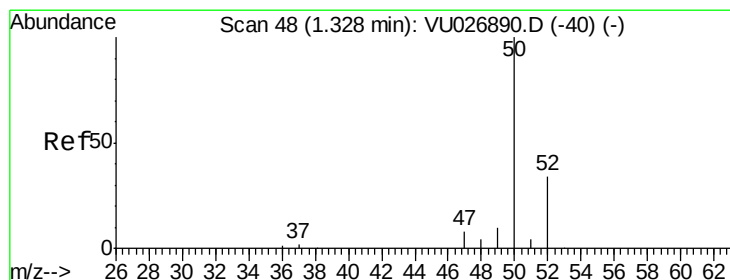
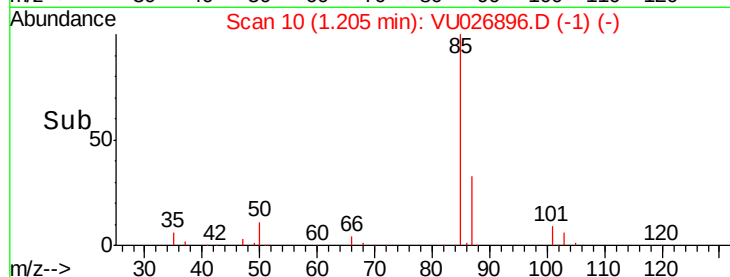
60000

40000

20000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 51.076 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU026896.D

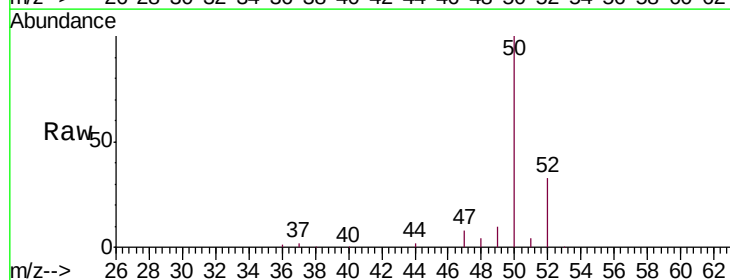
Acq: 19 Sep 2018 13:52

Tgt Ion: 50 Resp: 121761

Ion Ratio Lower Upper

50 100

52 33.2 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

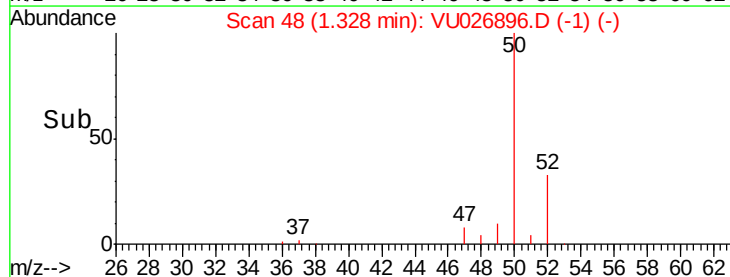
1.33

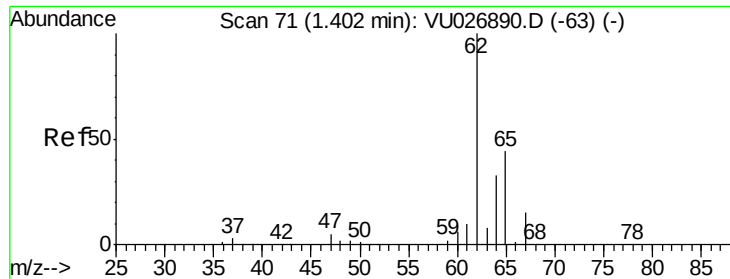
100000

50000

0

Time--> 1.30 1.35





#5

Vinyl chloride

Concen: 50.566 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

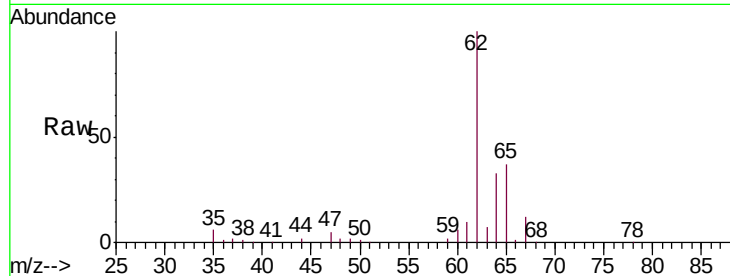
VSTD05050

Tgt Ion: 62 Resp: 117314

Ion Ratio Lower Upper

62 100

64 32.6 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

120000

100000

80000

60000

40000

20000

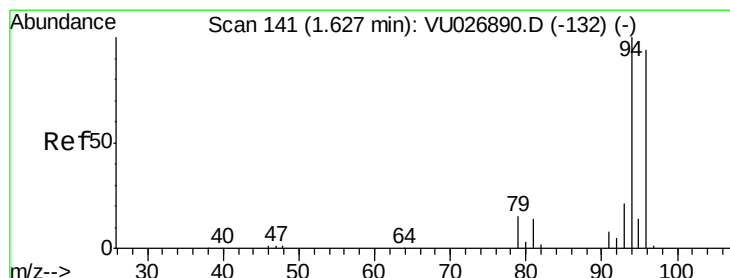
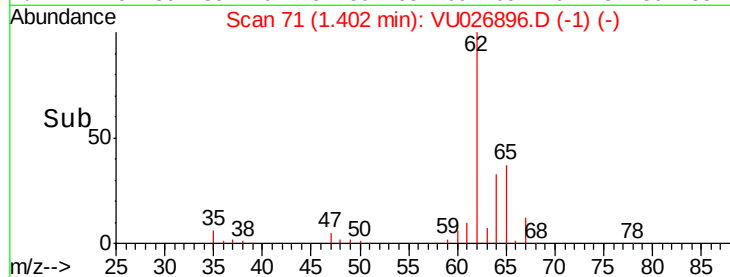
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 44.096 ug/L

RT: 1.62 min Scan# 139

Delta R.T. -0.01 min

Lab File: VU026896.D

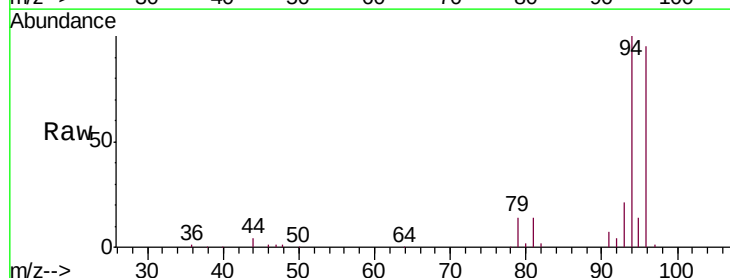
Acq: 19 Sep 2018 13:52

Tgt Ion: 94 Resp: 50528

Ion Ratio Lower Upper

94 100

96 95.3 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

40000

30000

20000

10000

0

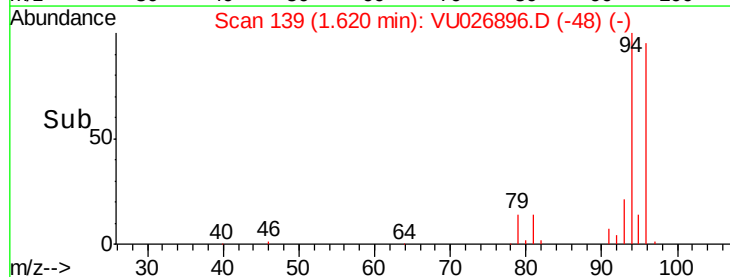
1.55

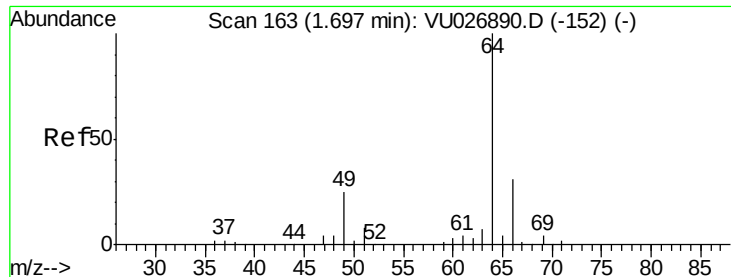
1.60

1.65

1.70

Time-->





#8

Chloroethane

Concen: 49.838 ug/L

RT: 1.69 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

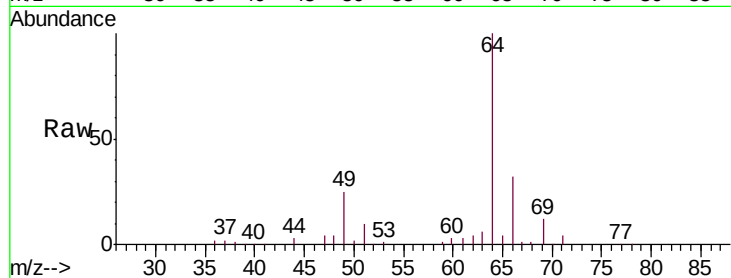
VSTD05050

Tgt Ion: 64 Resp: 72457

Ion Ratio Lower Upper

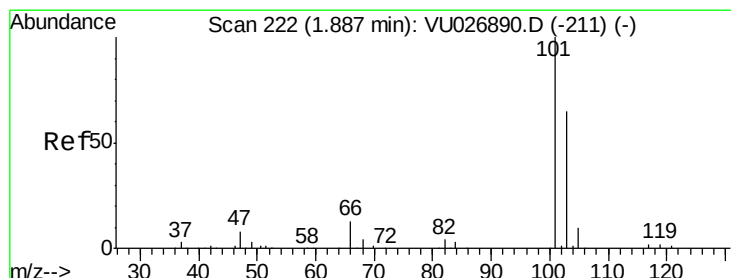
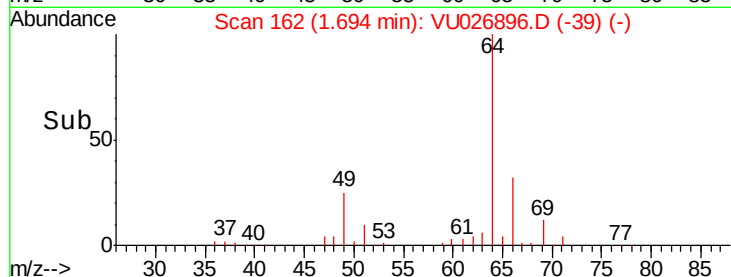
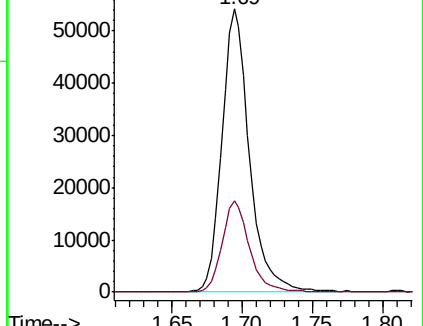
64 100

66 32.2 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU026896.D (-152) (-)

Ion 66.00 (65.70 to 66.70): VU026896.D (-152) (-)



#9

Trichlorofluoromethane

Concen: 51.905 ug/L

RT: 1.88 min Scan# 221

Delta R.T. -0.00 min

Lab File: VU026896.D

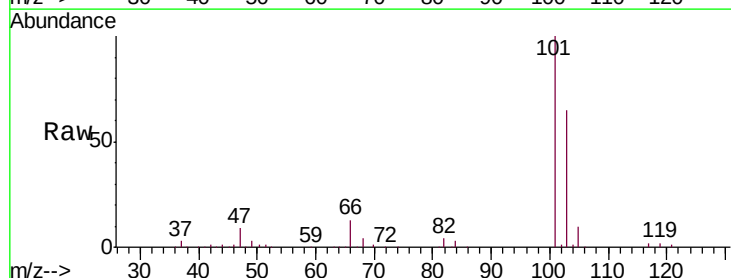
Acq: 19 Sep 2018 13:52

Tgt Ion: 101 Resp: 149618

Ion Ratio Lower Upper

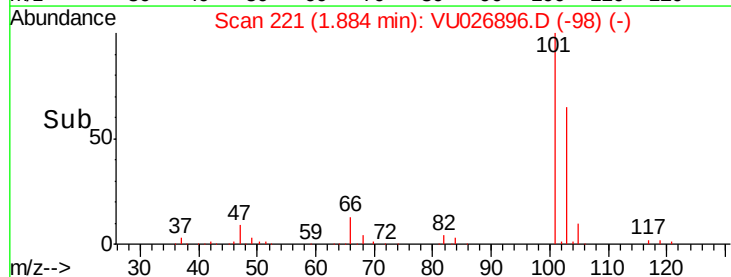
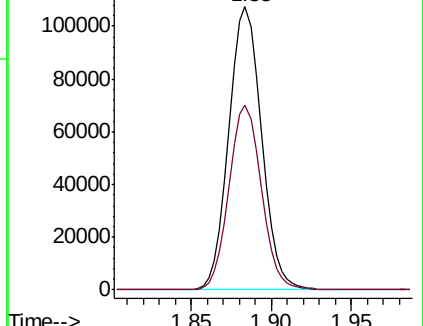
101 100

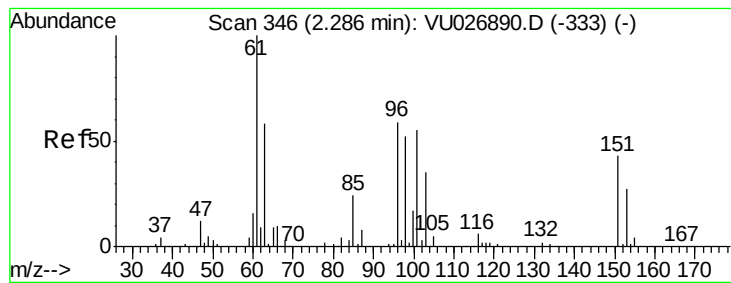
103 64.4 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU026896.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU026896.D (-211) (-)





#10

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

Concen: 50.588 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

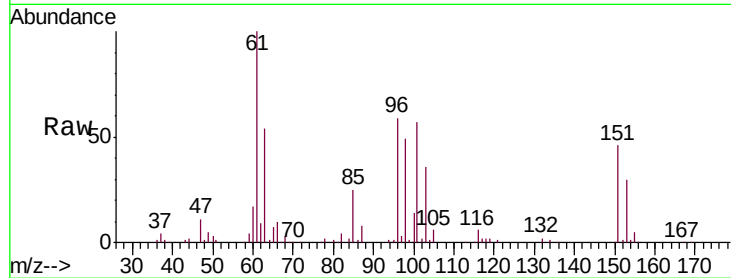
Tgt Ion:101 Resp: 86379

Ion Ratio Lower Upper

101 100

85 43.3 34.6 52.0

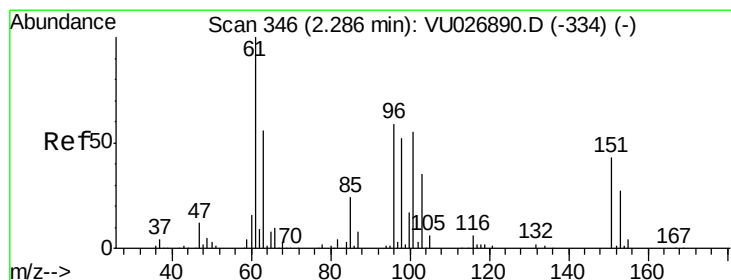
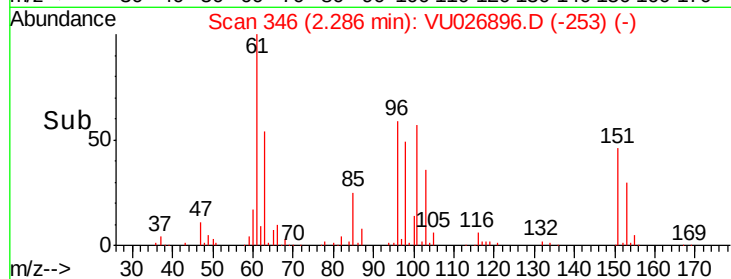
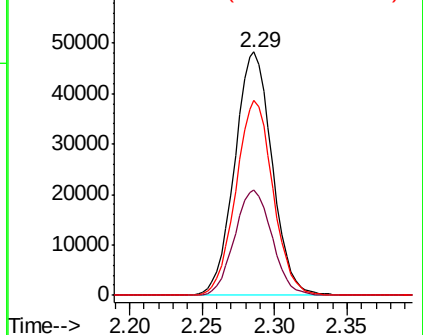
151 79.4 63.0 94.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.724 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

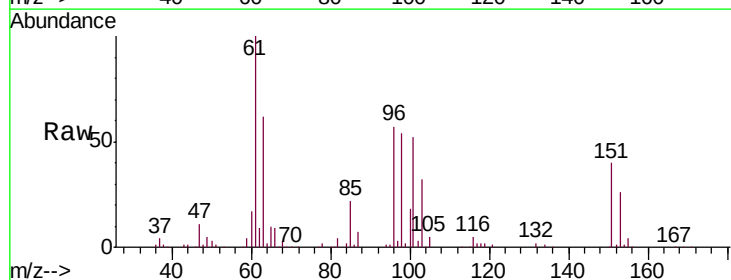
Tgt Ion: 96 Resp: 79739

Ion Ratio Lower Upper

96 100

61 174.1 124.0 230.4

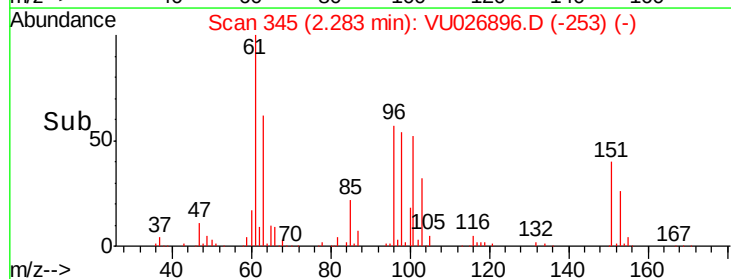
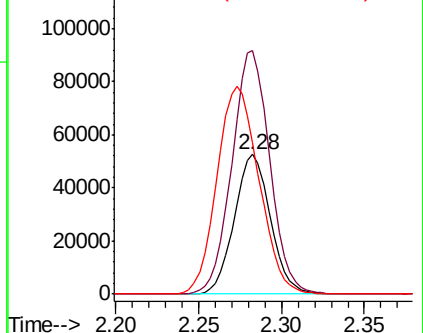
63 107.8 97.7 181.5

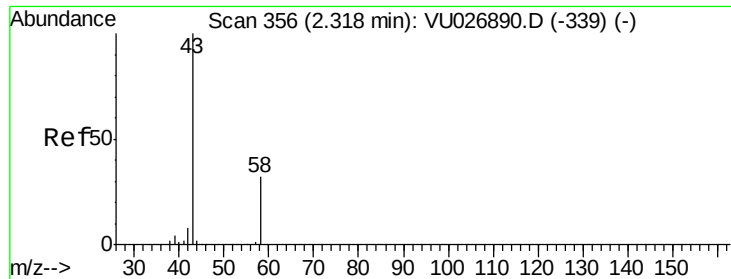


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 90.005 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

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ClientSampleId :

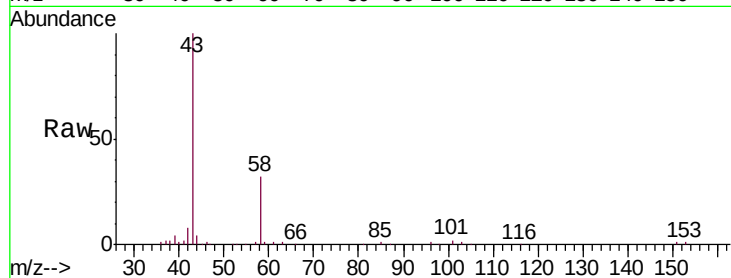
VSTD05050

Tgt Ion: 43 Resp: 107392

Ion Ratio Lower Upper

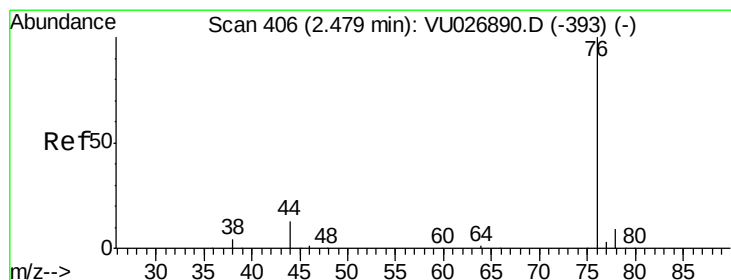
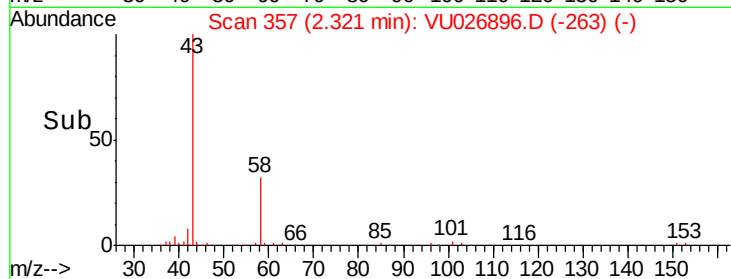
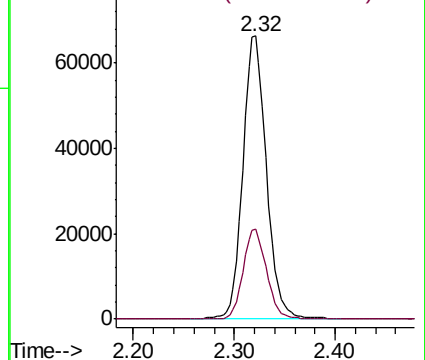
43 100

58 31.6 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU026896.D (-263) (-)

Ion 58.00 (57.70 to 58.70): VU026896.D (-263) (-)



#14

Carbon disulfide

Concen: 48.105 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU026896.D

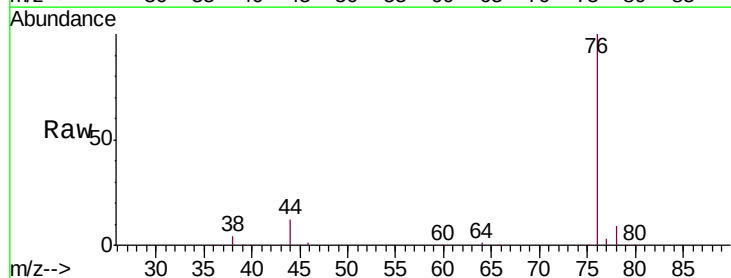
Acq: 19 Sep 2018 13:52

Tgt Ion: 76 Resp: 266212

Ion Ratio Lower Upper

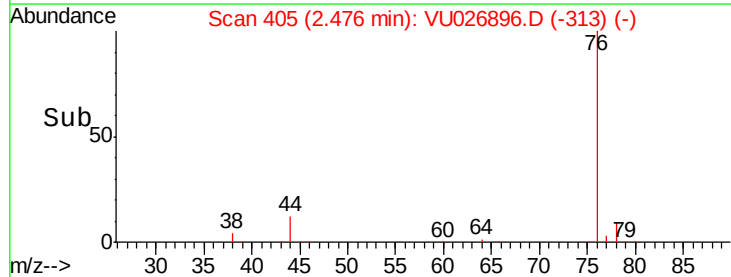
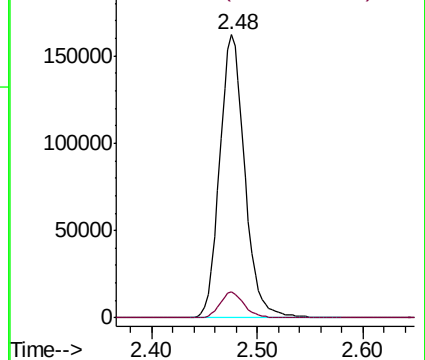
76 100

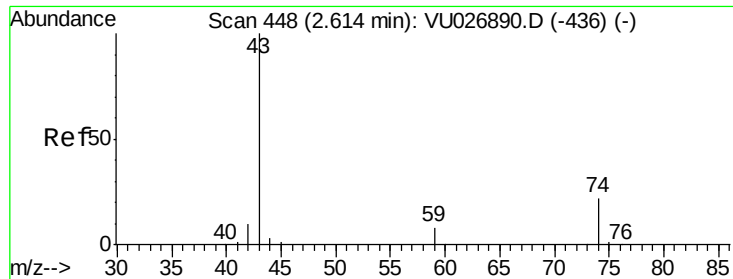
78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU026896.D (-313) (-)

Ion 78.00 (77.70 to 78.70): VU026896.D (-313) (-)

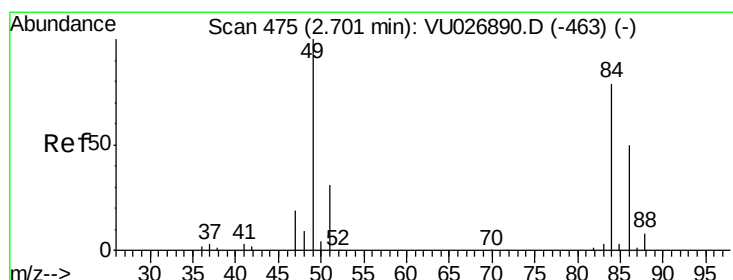
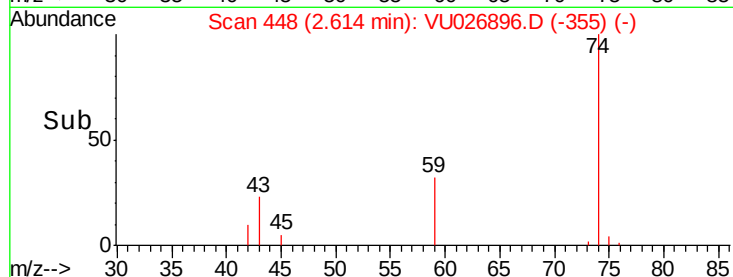
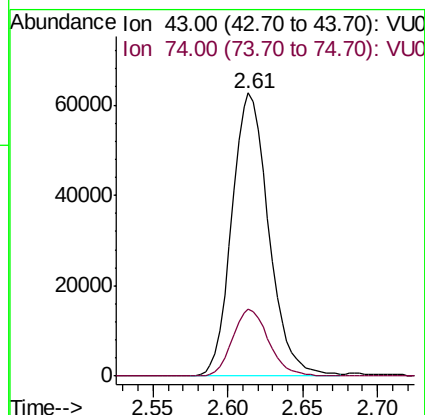
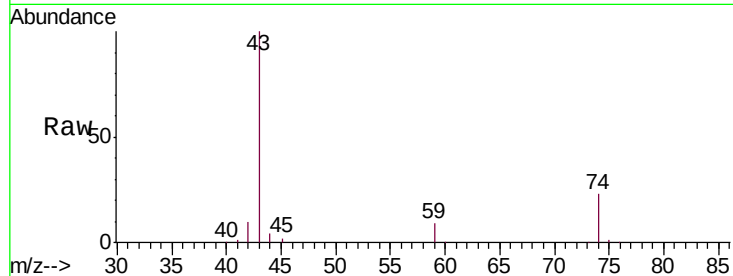




#15
Methyl Acetate
Concen: 52.094 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

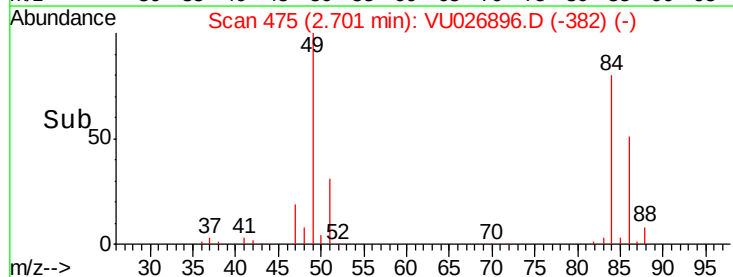
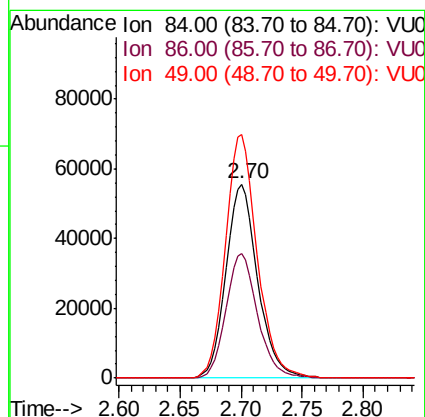
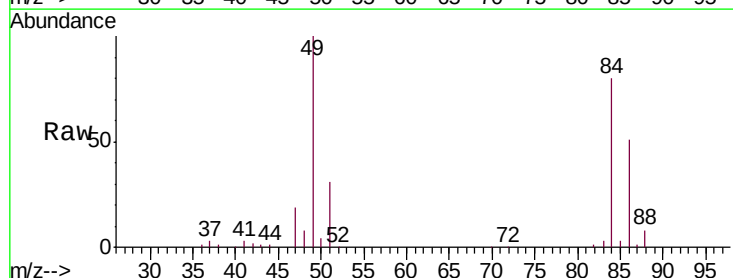
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

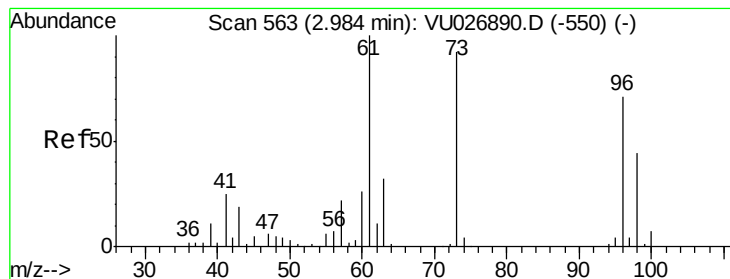
Tgt Ion: 43 Resp: 107694
Ion Ratio Lower Upper
43 100
74 23.3 18.7 28.1



#16
Methylene chloride
Concen: 49.861 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

Tgt Ion: 84 Resp: 101645
Ion Ratio Lower Upper
84 100
86 64.5 45.3 84.1
49 125.5 86.2 160.2





#17

trans-1,2-Dichloroethene

Concen: 49.757 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

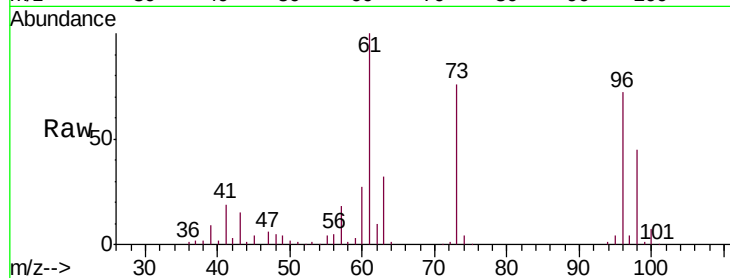
Tgt Ion: 96 Resp: 87880

Ion Ratio Lower Upper

96 100

61 138.7 98.7 183.3

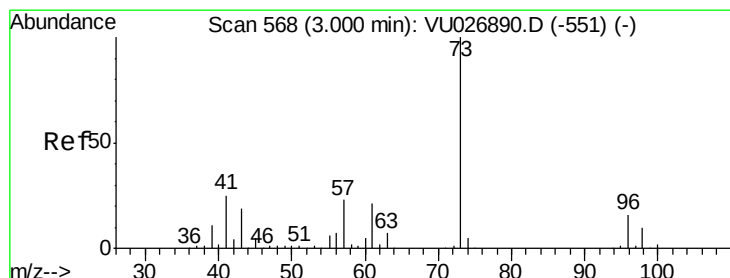
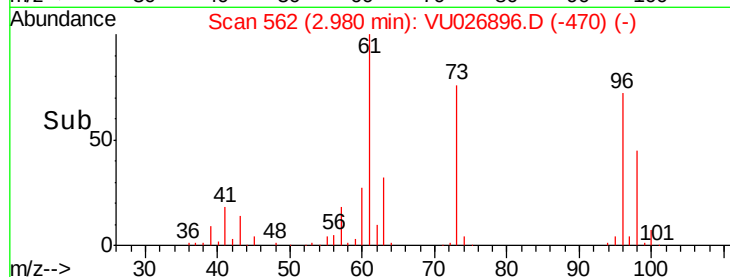
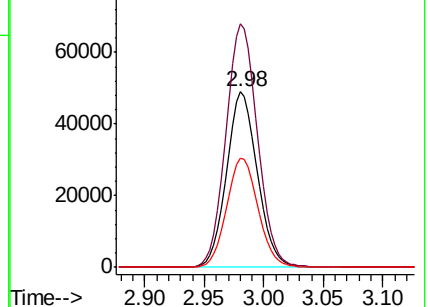
98 62.4 45.2 84.0



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: 53.081 ug/L

RT: 3.00 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

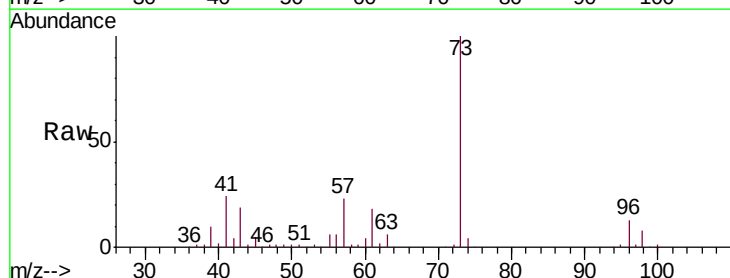
Tgt Ion: 73 Resp: 274155

Ion Ratio Lower Upper

73 100

43 18.9 15.3 22.9

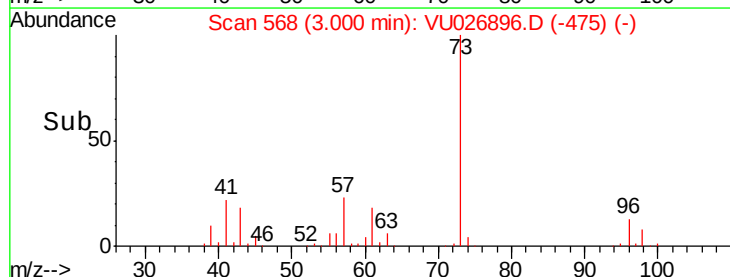
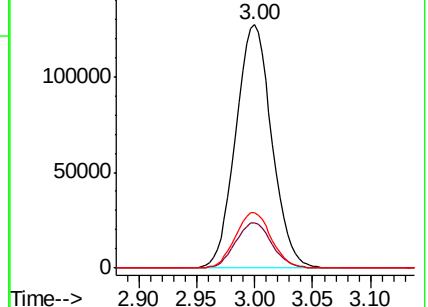
57 22.8 18.1 27.1

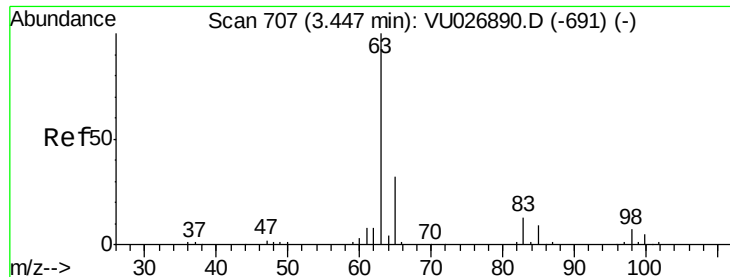


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

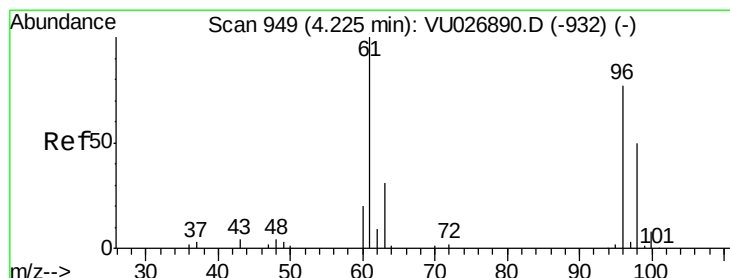
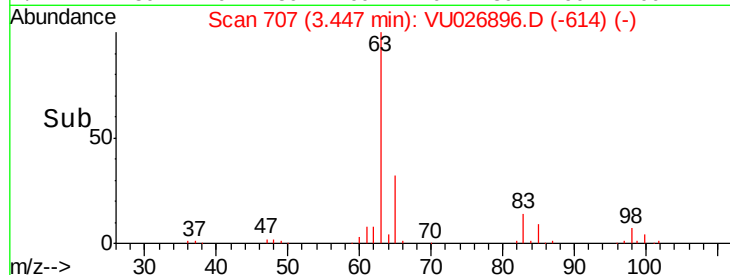
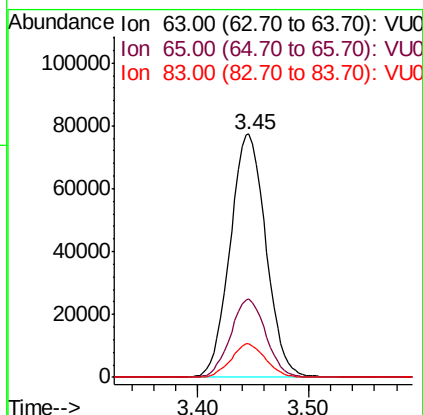
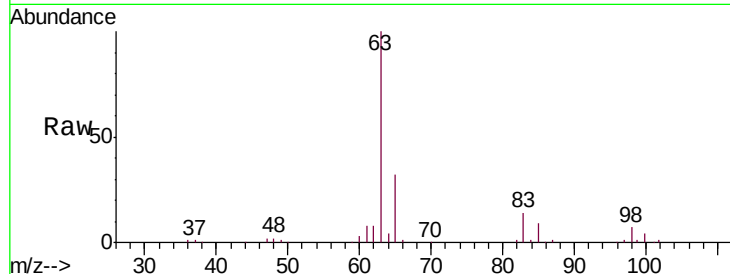




#19
 1,1-Dichloroethane
 Concen: 51.070 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

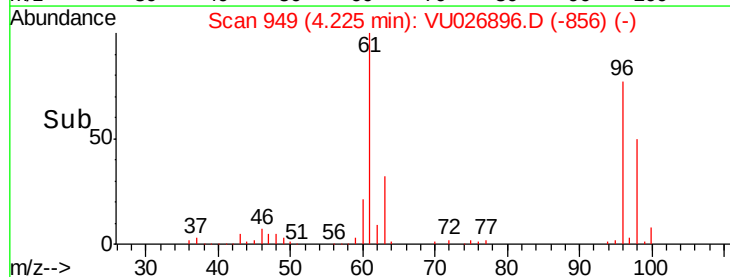
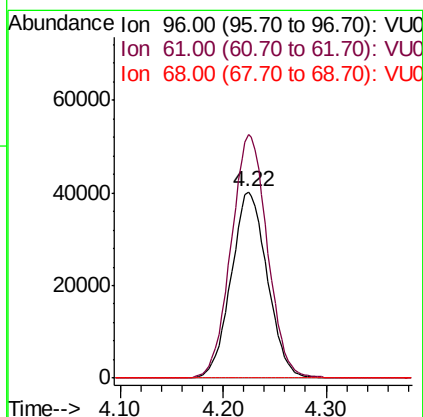
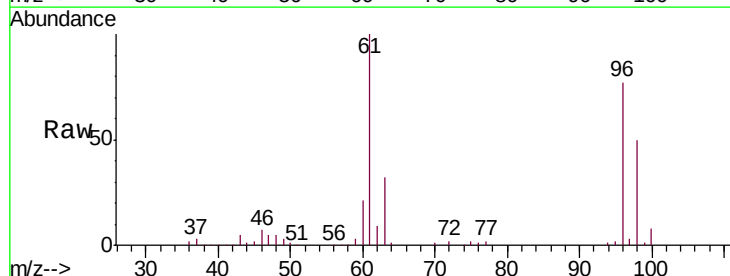
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD05050

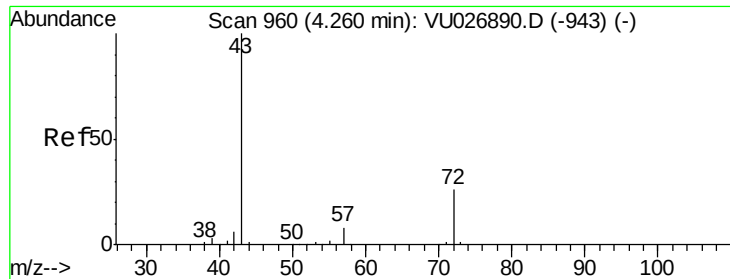
Tgt Ion: 63 Resp: 173971
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.1 41.1
 83 13.6 9.3 17.3



#20
 cis-1,2-Dichloroethene
 Concen: 50.450 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Tgt Ion: 96 Resp: 97999
 Ion Ratio Lower Upper
 96 100
 61 130.6 90.2 167.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 98.538 ug/L

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

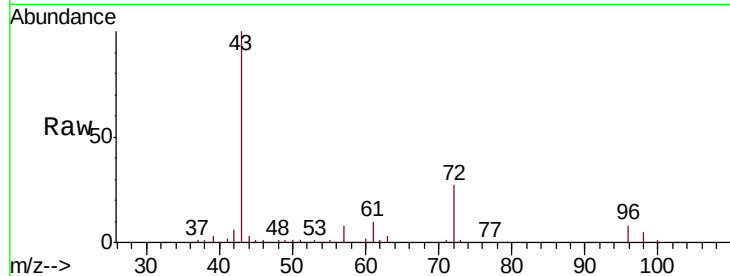
VSTD05050

Tgt Ion: 43 Resp: 144991

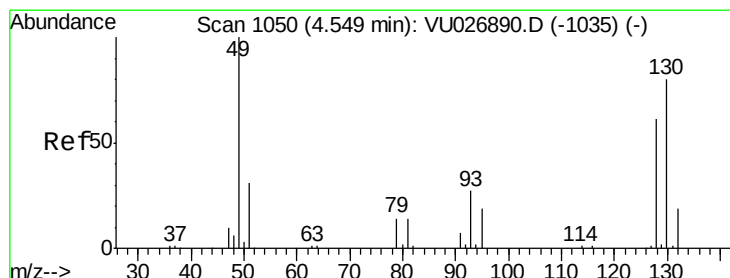
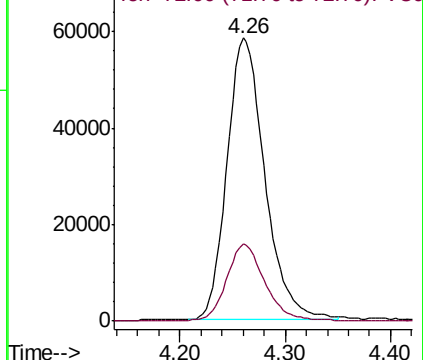
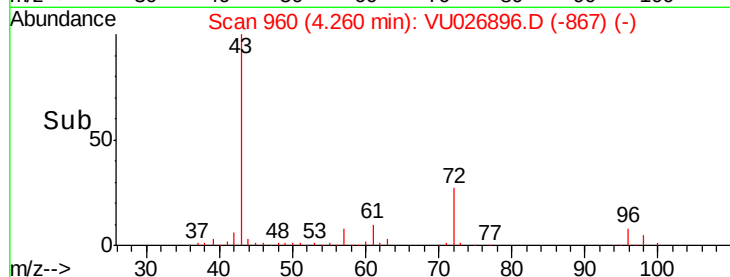
Ion Ratio Lower Upper

43 100

72 27.7 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VU026896.D (-867) (-)



#23

Bromochloromethane

Concen: 49.715 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Tgt Ion: 128 Resp: 52142

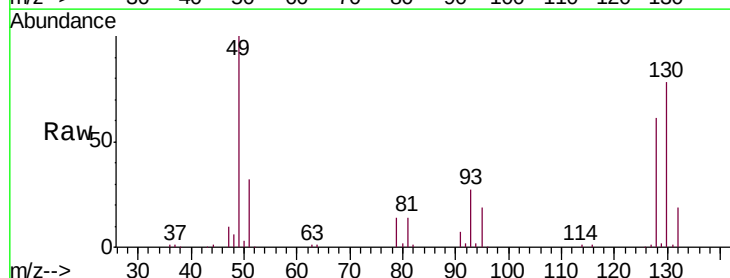
Ion Ratio Lower Upper

128 100

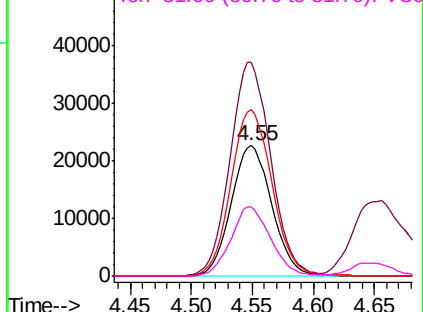
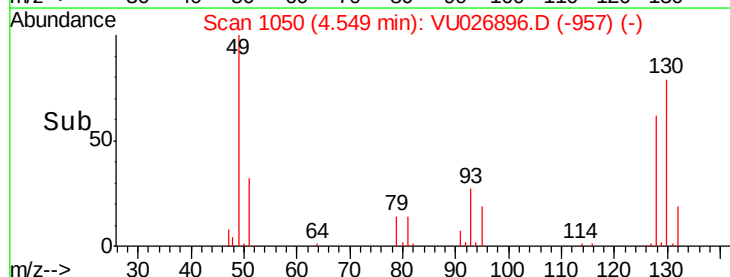
49 164.2 113.0 209.8

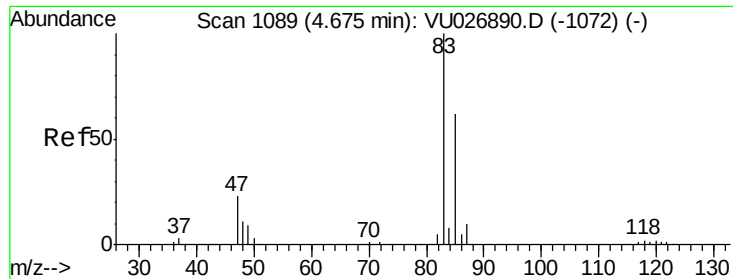
130 128.0 89.7 166.5

51 52.8 39.7 59.5



Abundance Ion 128.00 (127.70 to 128.70): VU026896.D (-957) (-)

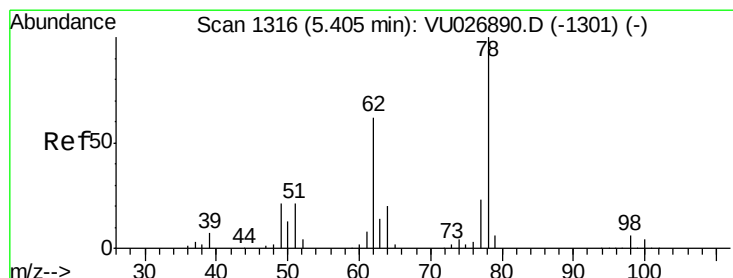
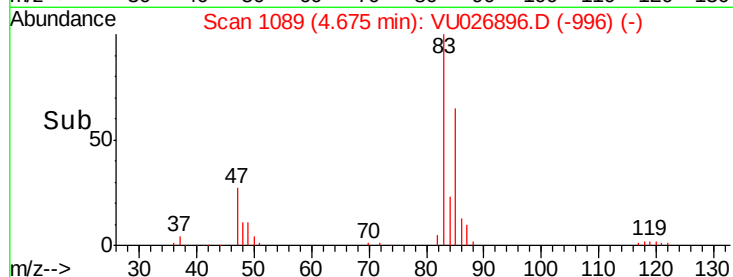
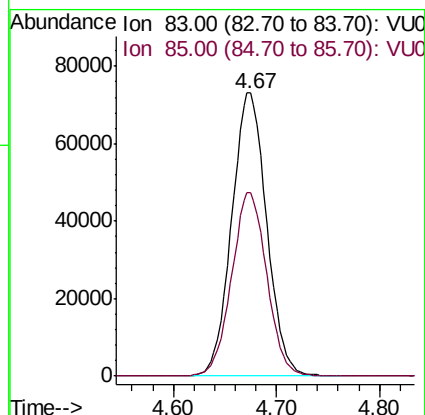
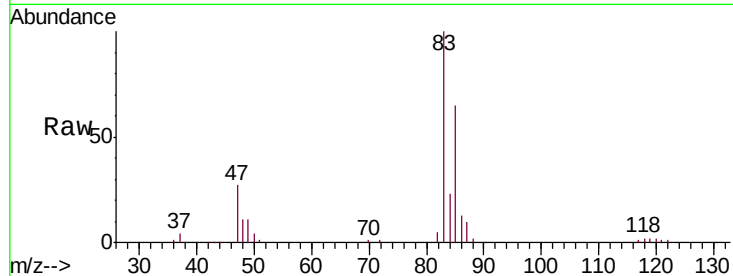




#25
Chloroform
Concen: 49.964 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

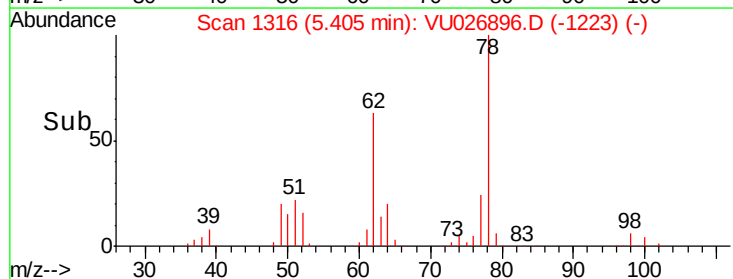
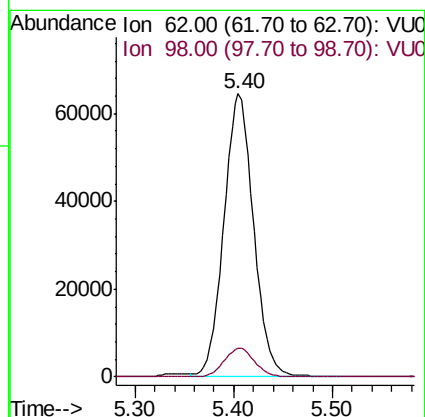
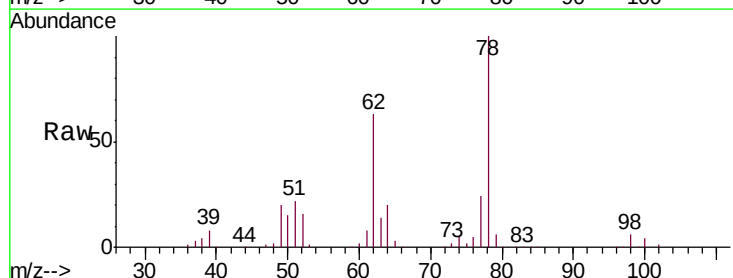
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

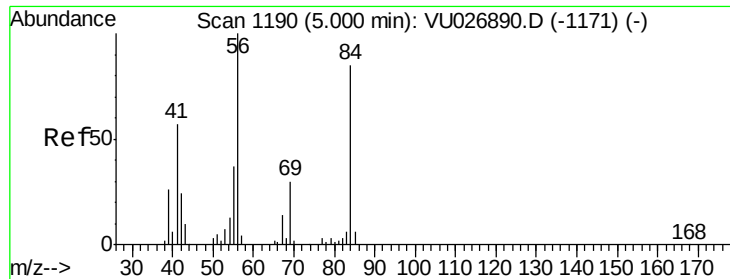
Tgt Ion: 83 Resp: 172393
Ion Ratio Lower Upper
83 100
85 64.7 44.4 82.5



#27
1,2-Dichloroethane
Concen: 50.611 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

Tgt Ion: 62 Resp: 136270
Ion Ratio Lower Upper
62 100
98 10.0 8.2 12.4





#29

Cyclohexane

Concen: 54.440 ug/L

RT: 5.00 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

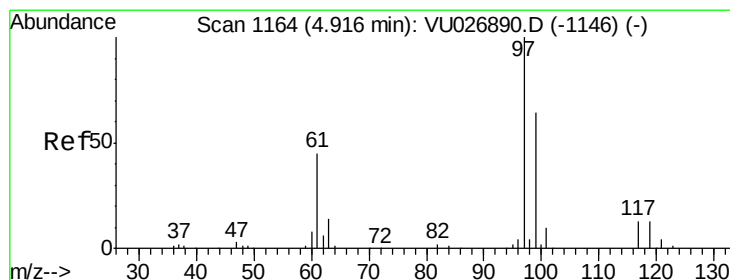
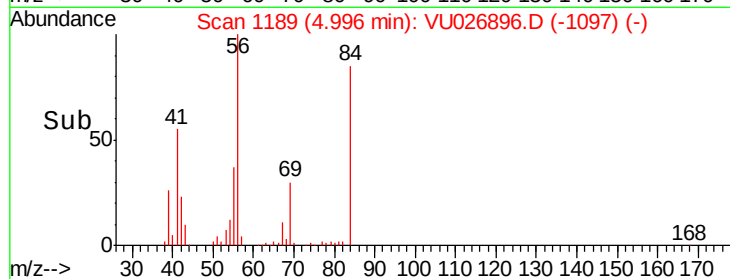
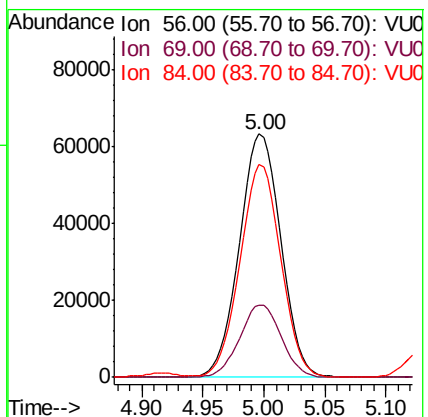
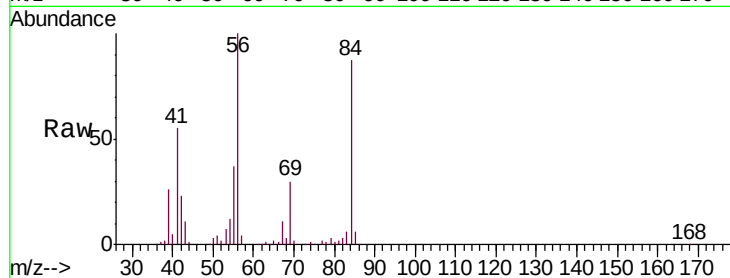
Tgt Ion: 56 Resp: 148788

Ion Ratio Lower Upper

56 100

69 29.8 23.7 35.5

84 86.1 69.0 103.4



#30

1,1,1-Trichloroethane

Concen: 51.514 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

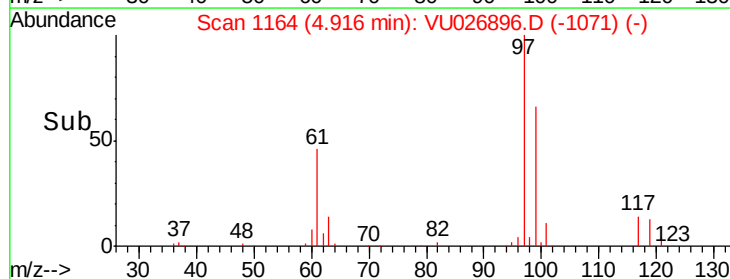
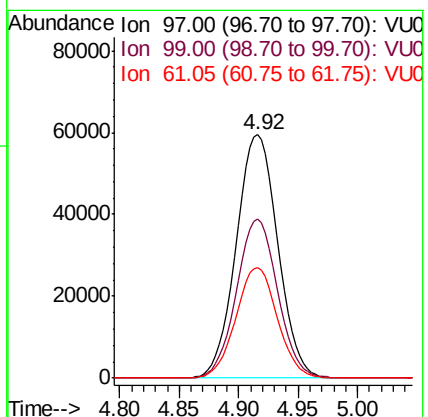
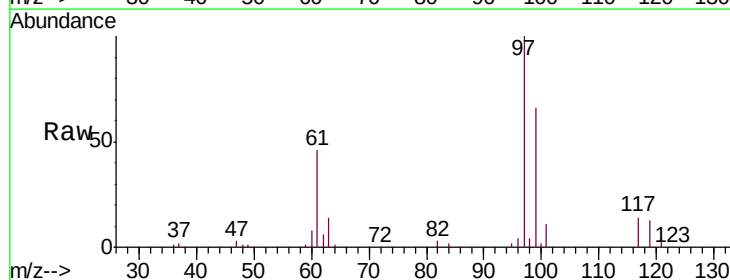
Tgt Ion: 97 Resp: 144257

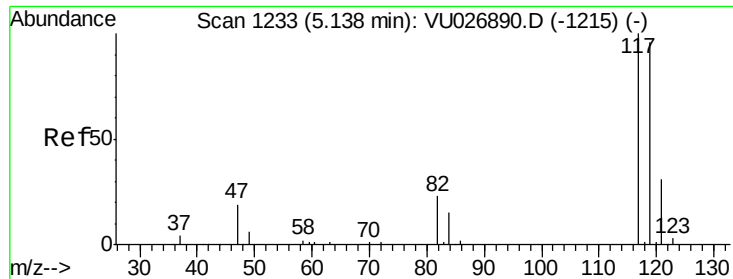
Ion Ratio Lower Upper

97 100

99 64.7 51.8 77.8

61 45.3 36.6 54.8





#31

Carbon tetrachloride

Concen: 51.116 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

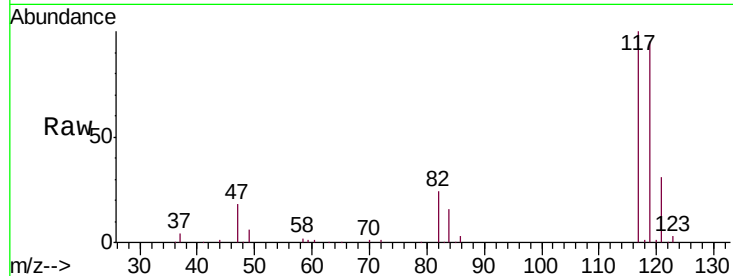
VSTD05050

Tgt Ion:117 Resp: 128274

Ion Ratio Lower Upper

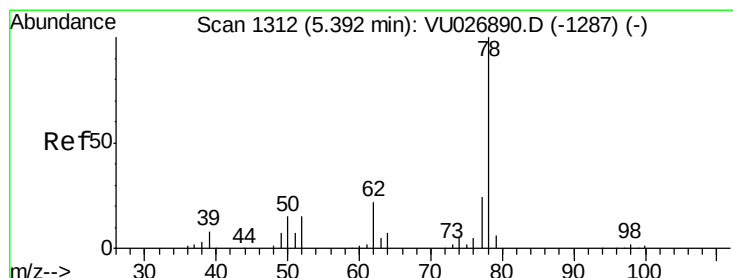
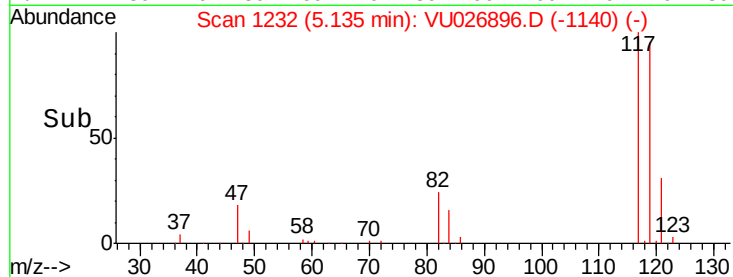
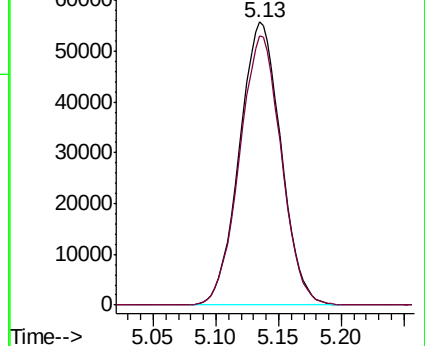
117 100

119 95.6 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.589 ug/L

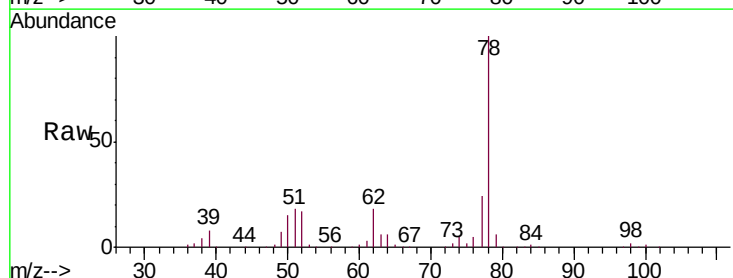
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

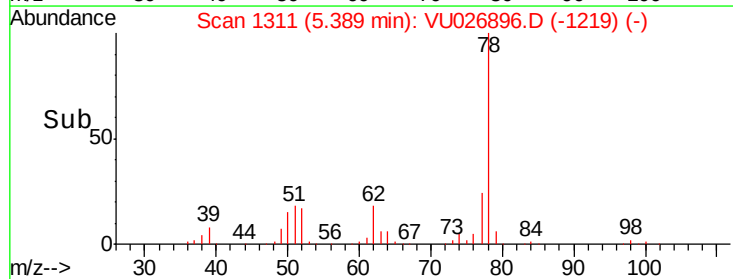
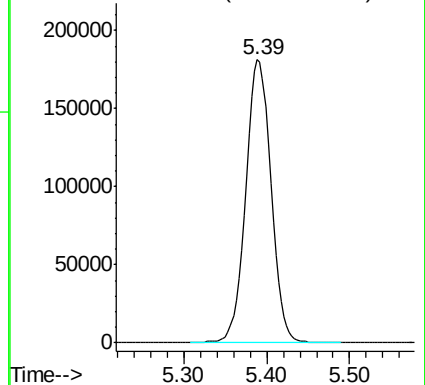
Lab File: VU026896.D

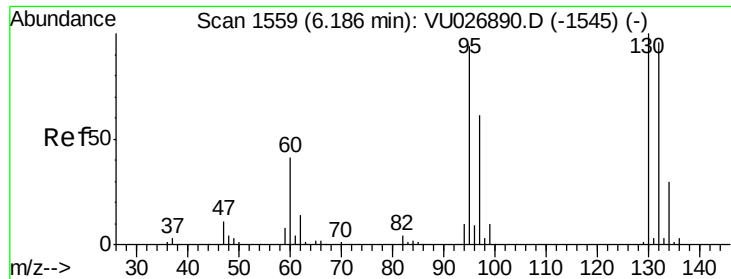
Acq: 19 Sep 2018 13:52

Tgt Ion: 78 Resp: 383789



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 51.153 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tgt Ion: 95 Resp: 89581

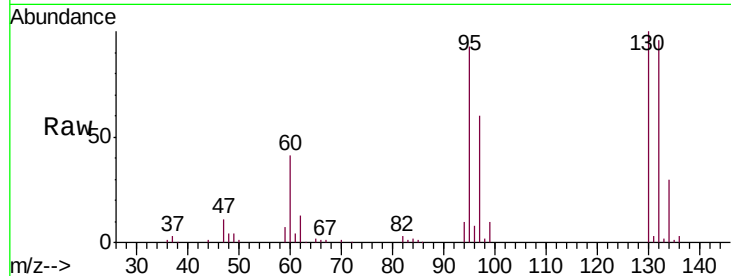
Ion Ratio Lower Upper

95 100

97 64.6 46.3 85.9

132 103.2 71.7 133.1

130 107.3 75.3 139.8

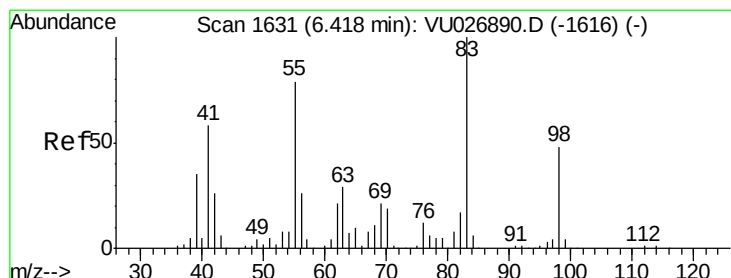
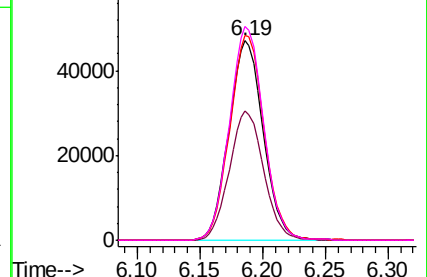
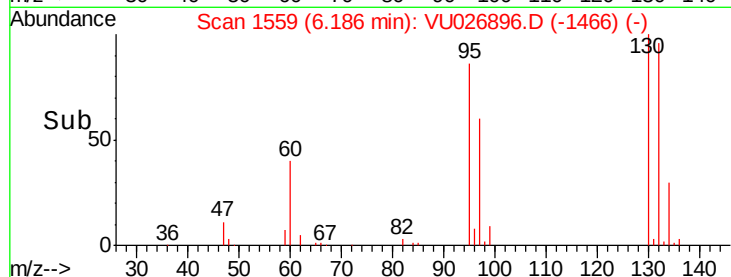


Abundance Ion 95.00 (94.70 to 95.70): VU026896.D (-1545) (-)

Ion 97.00 (96.70 to 97.70): VU026896.D (-1545) (-)

Ion 132.00 (131.70 to 132.70): VU026896.D (-1545) (-)

Ion 130.00 (129.70 to 130.70): VU026896.D (-1545) (-)



#35

Methylcyclohexane

Concen: 53.824 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

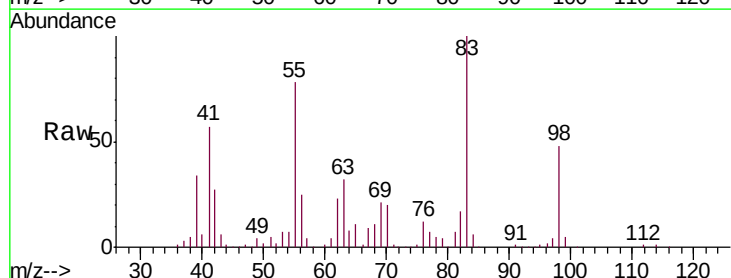
Tgt Ion: 83 Resp: 153649

Ion Ratio Lower Upper

83 100

55 79.3 61.7 92.5

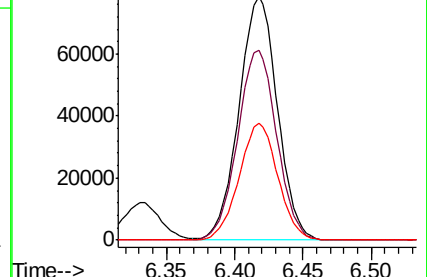
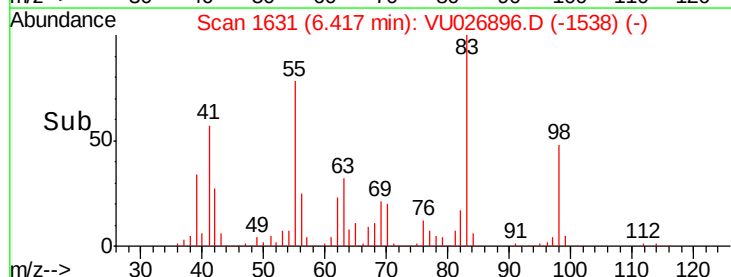
98 48.3 38.3 57.5

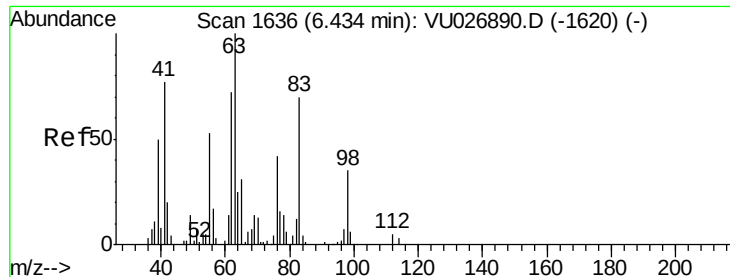


Abundance Ion 83.00 (82.70 to 83.70): VU026896.D (-1616) (-)

Ion 55.00 (54.70 to 55.70): VU026896.D (-1616) (-)

Ion 98.00 (97.70 to 98.70): VU026896.D (-1616) (-)

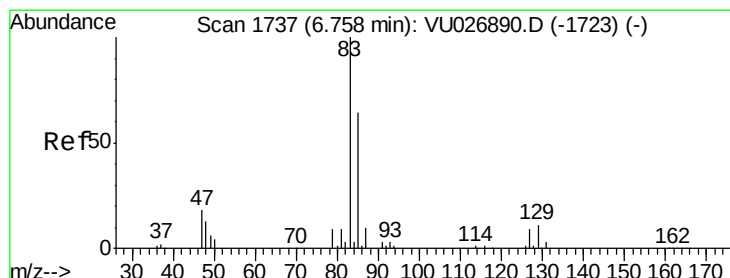
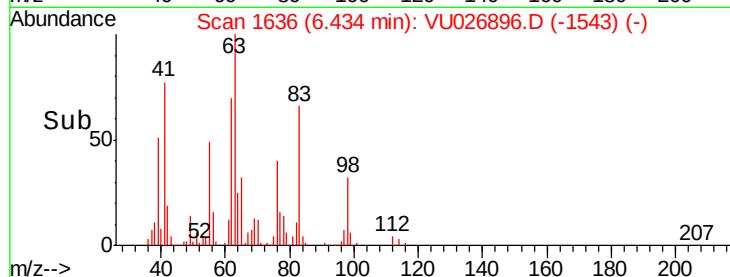
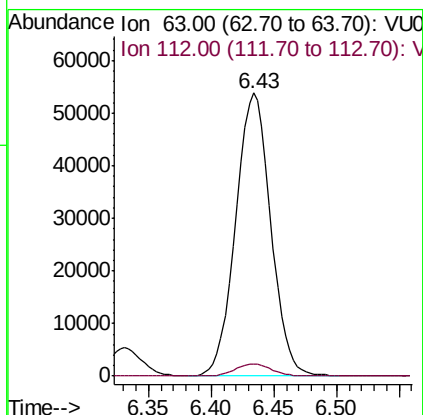
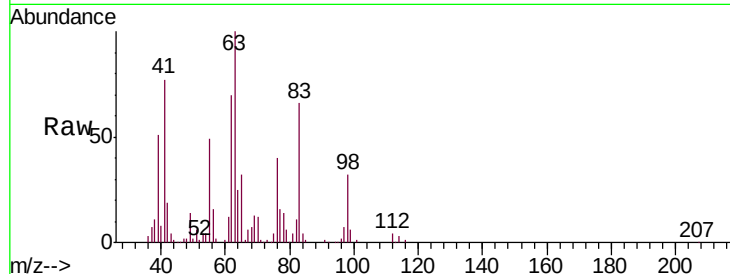




#37
 1,2-Dichloropropane
 Concen: 52.302 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

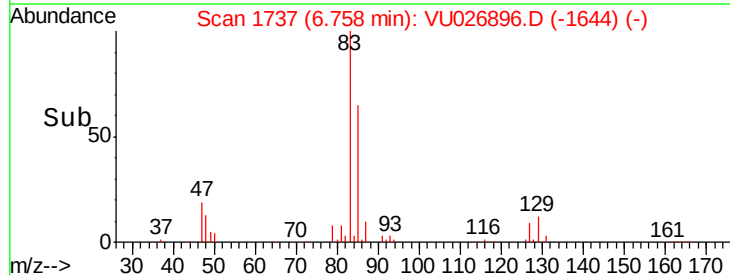
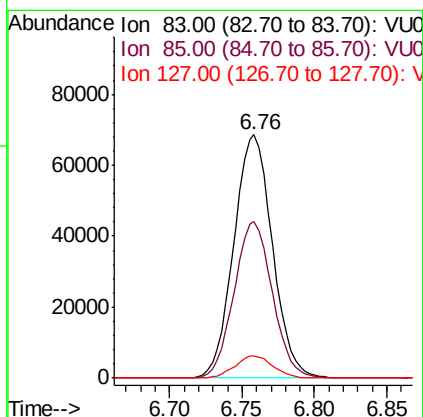
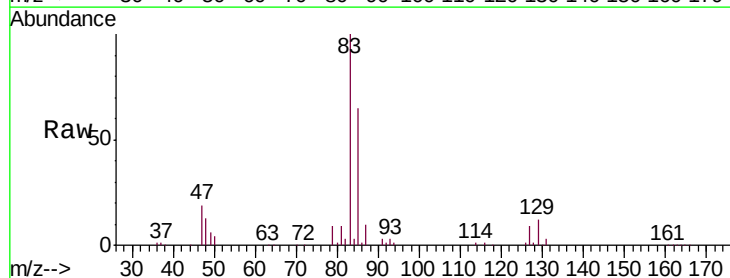
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

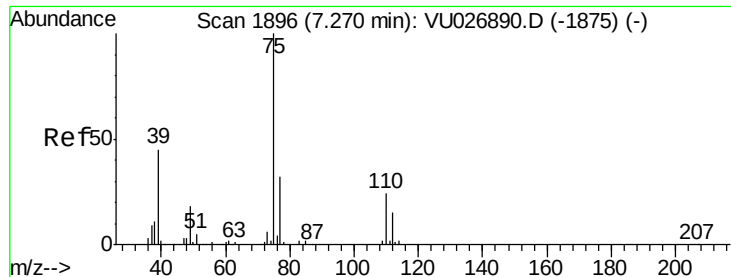
Tgt Ion: 63 Resp: 104851
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.7 5.5



#38
 Bromodichloromethane
 Concen: 51.123 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Tgt Ion: 83 Resp: 127098
 Ion Ratio Lower Upper
 83 100
 85 64.6 44.5 82.7
 127 9.3 6.9 10.3

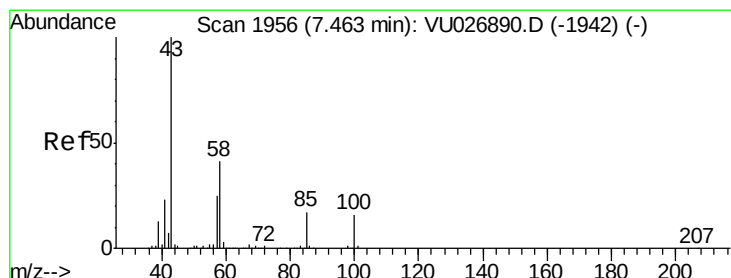
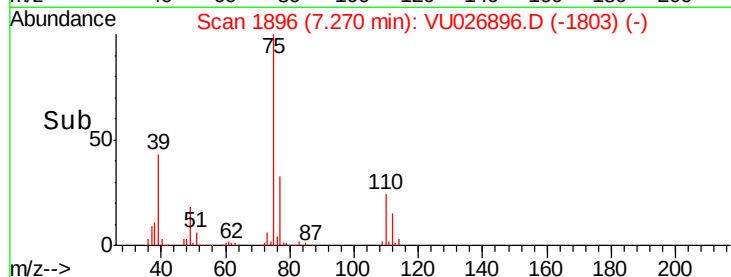
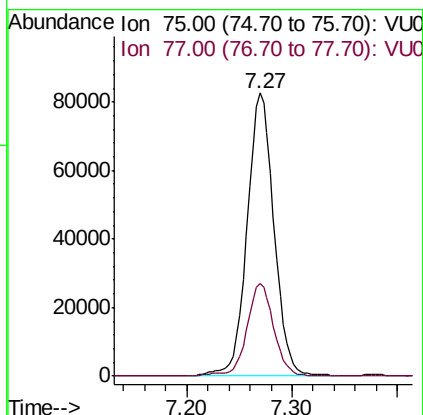
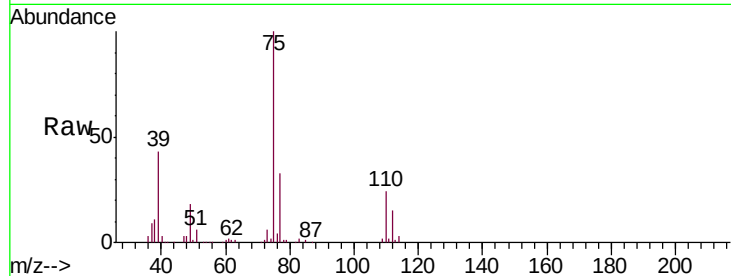




#39
 cis-1,3-Dichloropropene
 Concen: 51.893 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

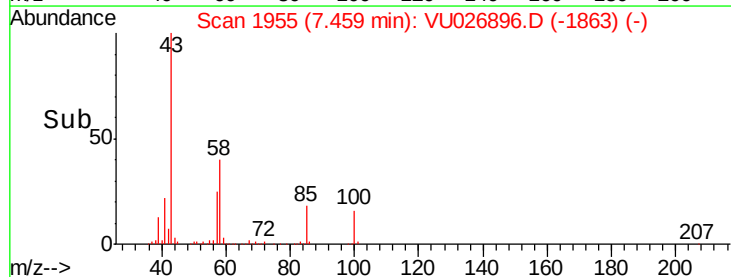
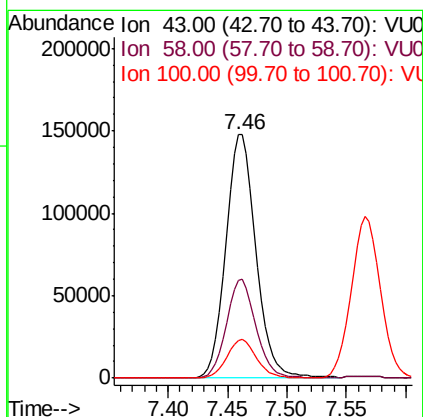
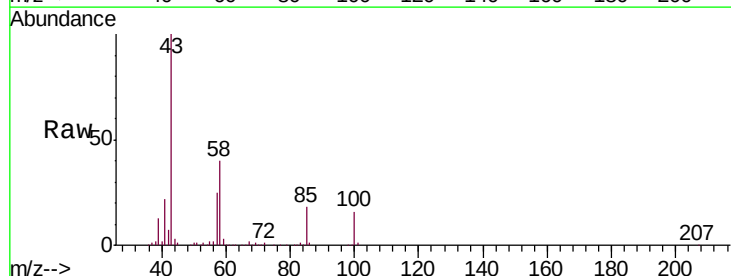
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

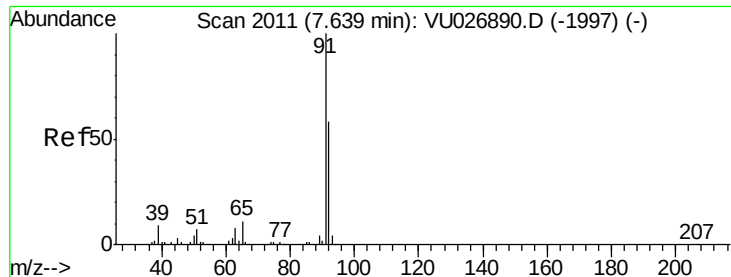
Tgt Ion: 75 Resp: 146954
 Ion Ratio Lower Upper
 75 100
 77 32.7 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 108.915 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Tgt Ion: 43 Resp: 259442
 Ion Ratio Lower Upper
 43 100
 58 39.8 32.0 48.0
 100 15.6 12.6 19.0





#42

Toluene

Concen: 53.533 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

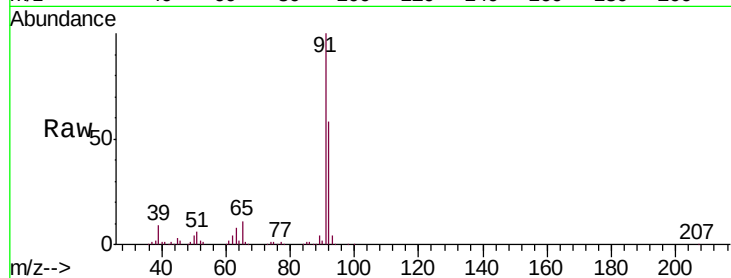
VSTD05050

Tgt Ion: 91 Resp: 395358

Ion Ratio Lower Upper

91 100

92 58.2 40.9 76.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

250000

200000

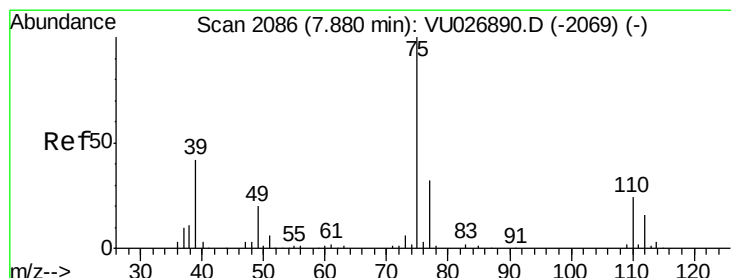
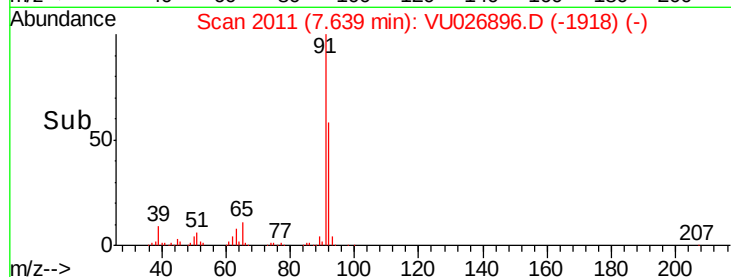
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#44

trans-1,3-Dichloropropene

Concen: 51.831 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU026896.D

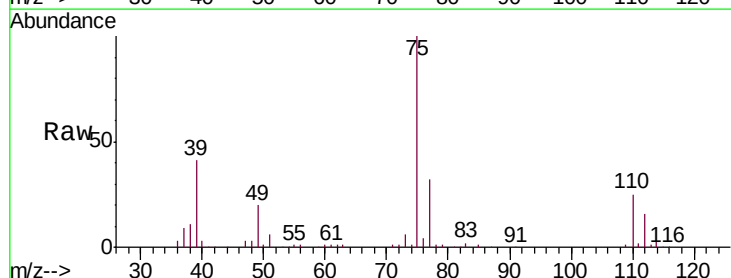
Acq: 19 Sep 2018 13:52

Tgt Ion: 75 Resp: 137431

Ion Ratio Lower Upper

75 100

77 31.6 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

80000

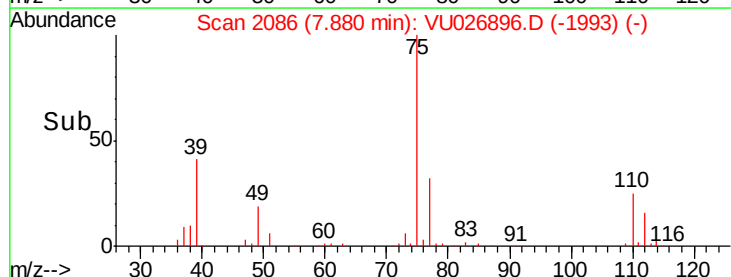
60000

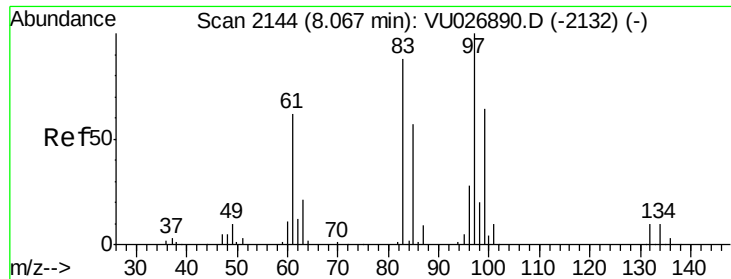
40000

20000

0

Time--> 7.80 7.85 7.90 7.95

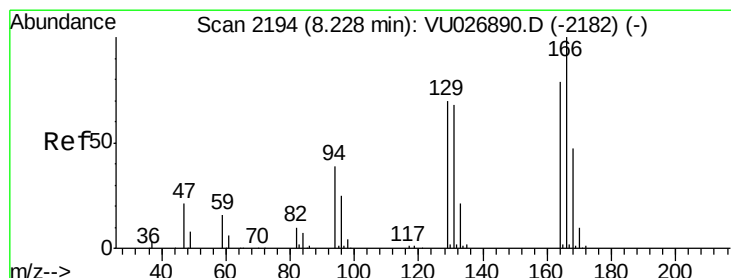
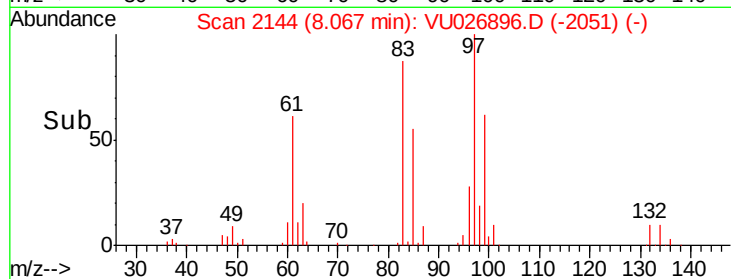
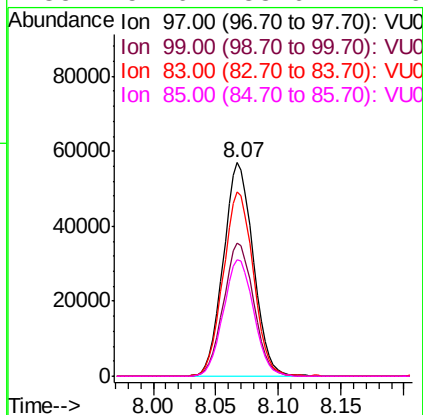
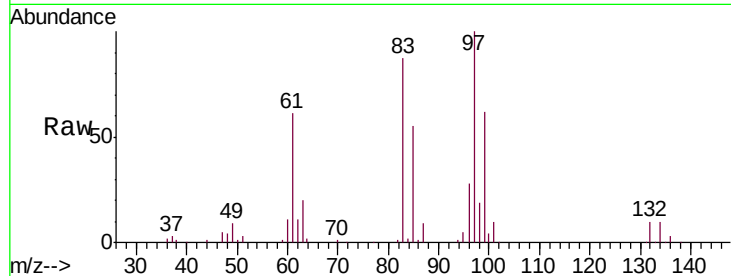




#45
 1,1,2-Trichloroethane
 Concen: 51.726 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

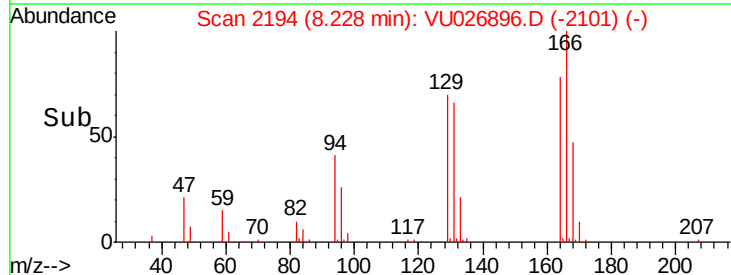
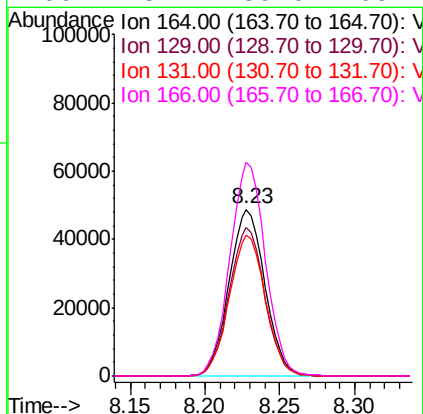
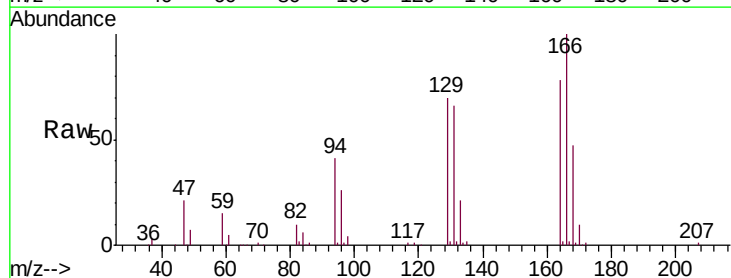
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

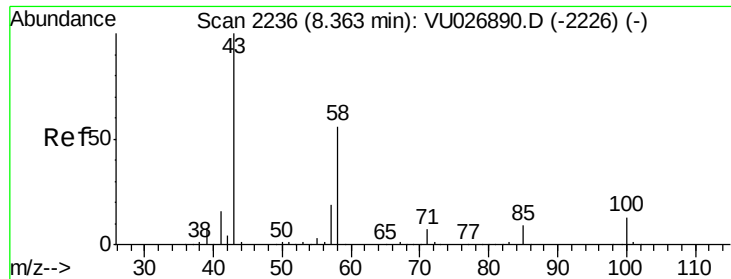
Tgt Ion:	97	Resp:	94540
Ion	Ratio	Lower	Upper
97	100		
99	62.4	44.3	82.3
83	86.5	61.5	114.1
85	54.6	38.6	71.6



#46
 Tetrachloroethene
 Concen: 52.606 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Tgt Ion:	164	Resp:	81668
Ion	Ratio	Lower	Upper
164	100		
129	89.1	62.2	115.4
131	84.8	60.5	112.5
166	128.1	89.0	165.2

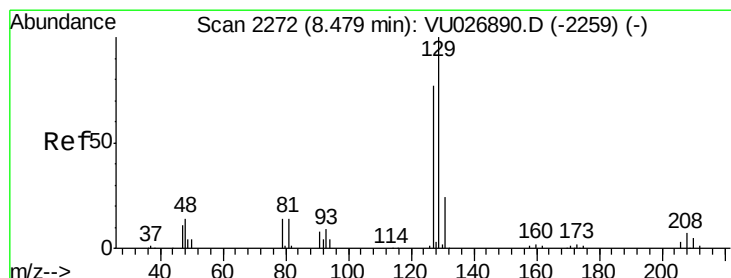
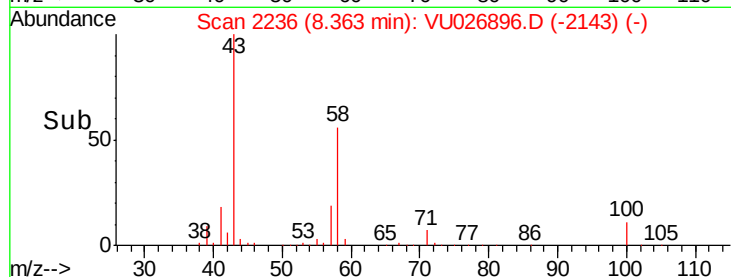
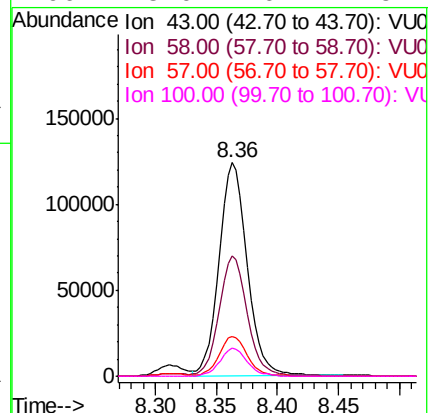
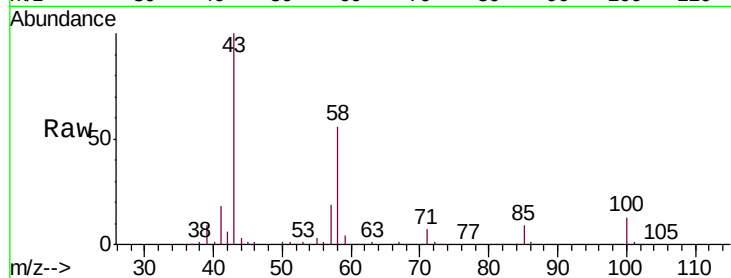




#48
2-Hexanone
Concen: 105.228 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

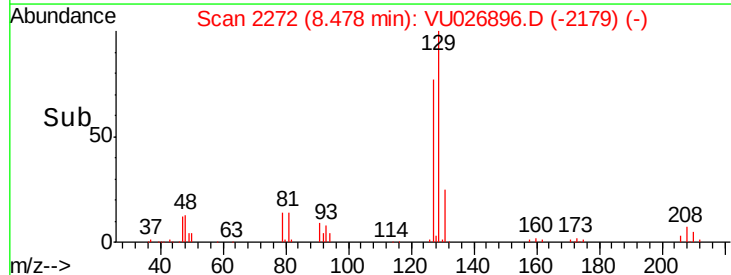
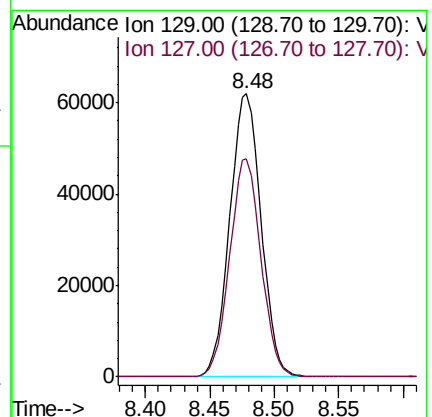
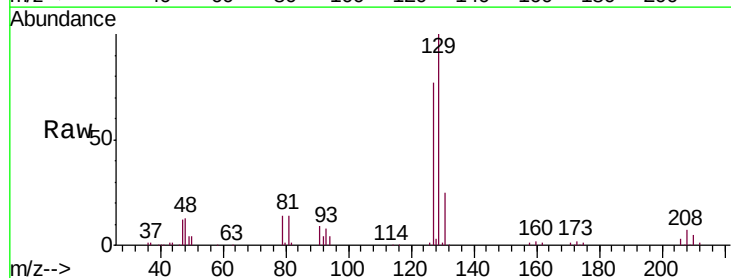
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

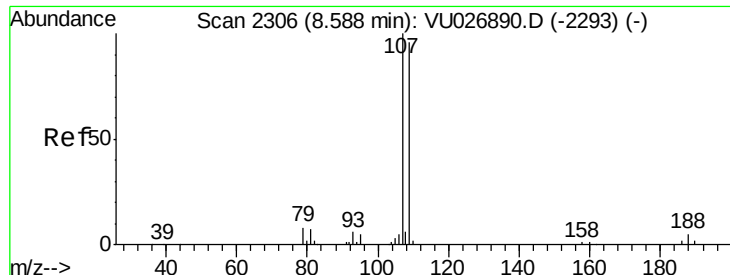
Tgt Ion:	43	Resp:	202189
Ion	Ratio	Lower	Upper
43	100		
58	56.4	44.9	67.3
57	19.2	15.4	23.2
100	13.0	10.2	15.4



#49
Dibromochloromethane
Concen: 50.559 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

Tgt Ion:	129	Resp:	104602
Ion	Ratio	Lower	Upper
129	100		
127	77.0	55.2	102.4

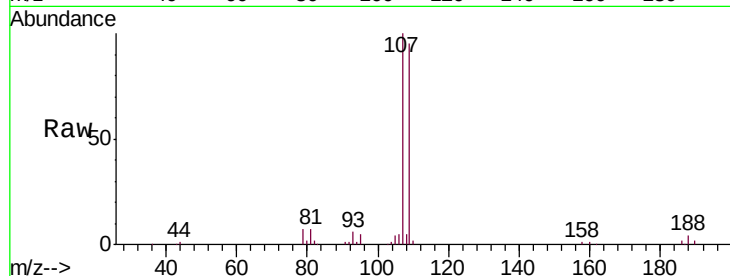




#50
1,2-Dibromoethane
Concen: 50.884 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.0	67.8	125.8
188	4.1	3.2	4.8

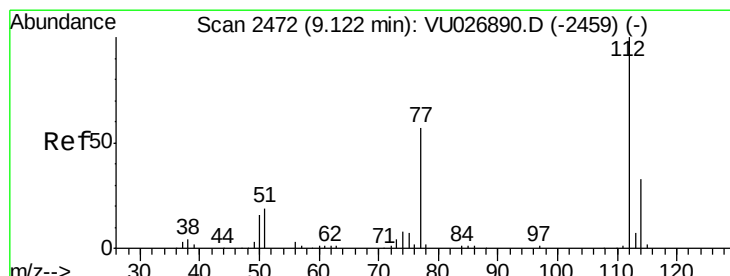
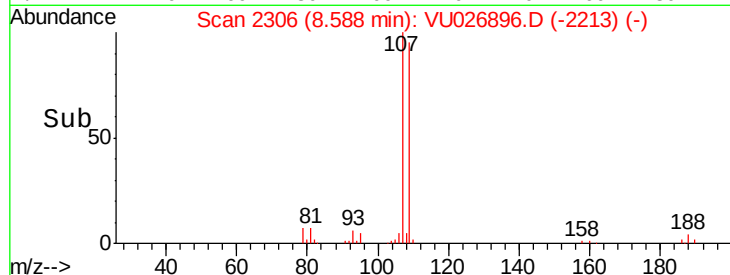
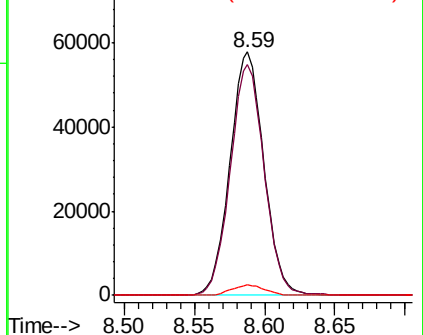


Abundance

Ion 107.00 (106.70 to 107.70): V

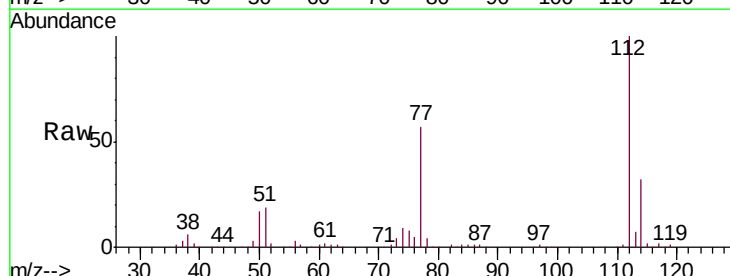
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 51.294 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.3	41.5
77	56.9	45.1	67.7

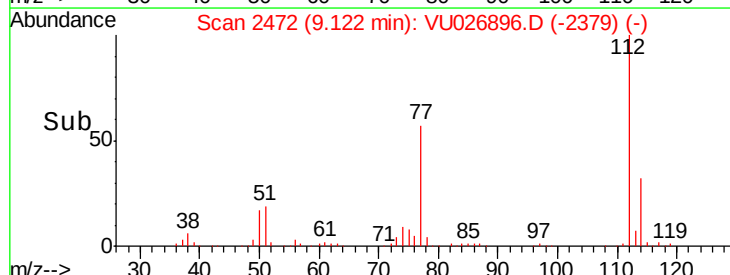
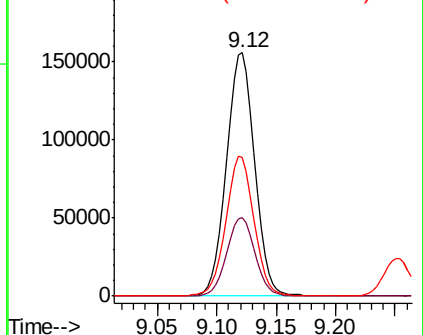


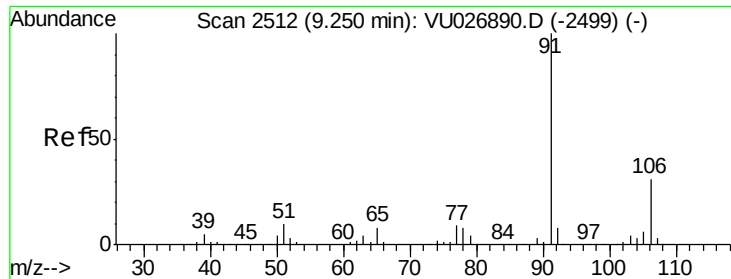
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU

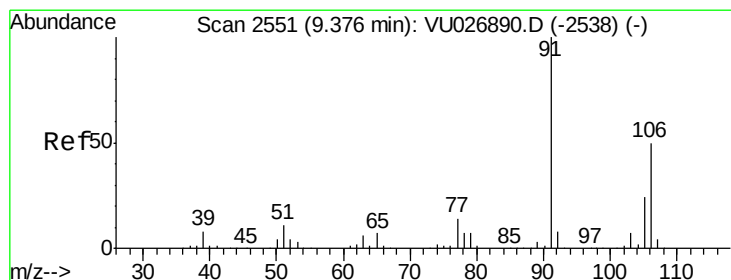
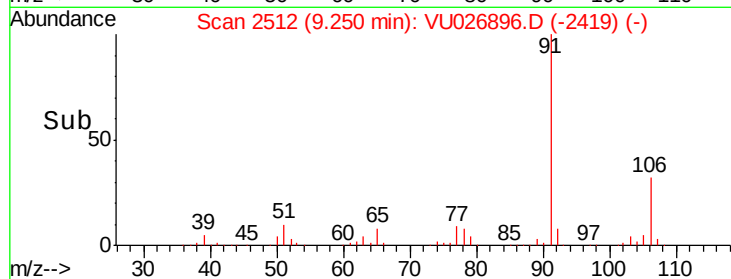
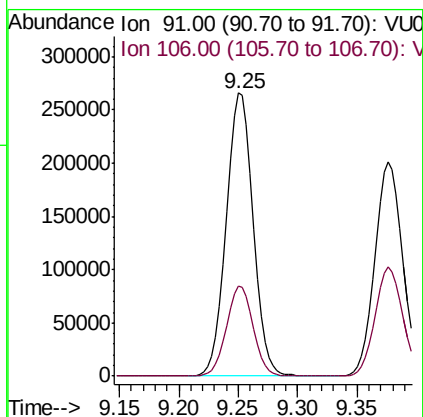
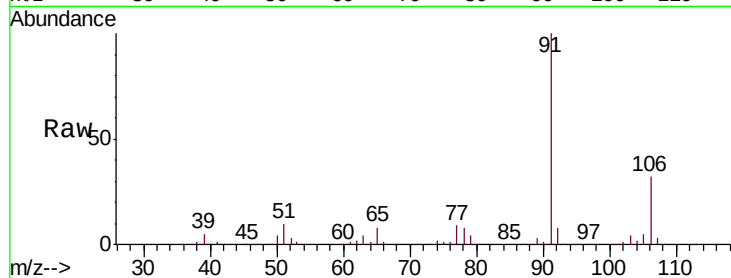




#52
Ethylbenzene
Concen: 53.919 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

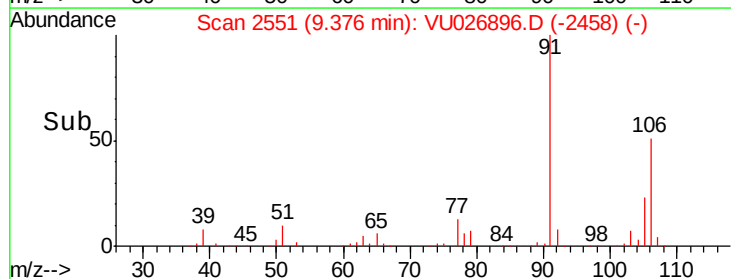
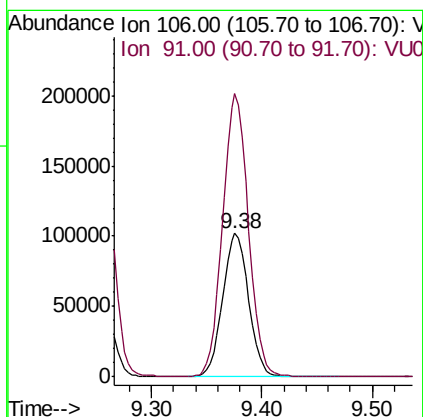
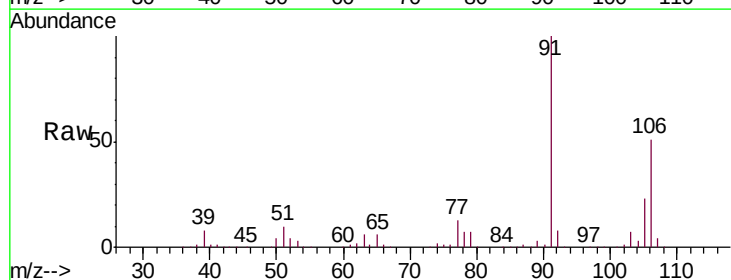
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

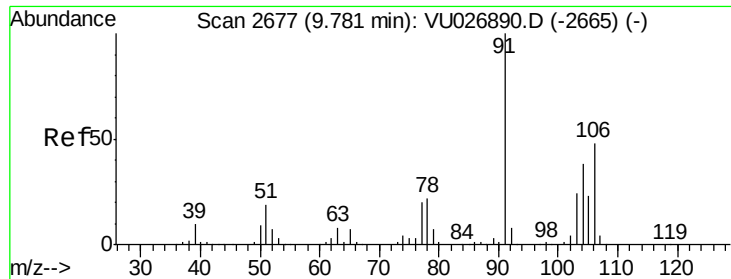
Tgt Ion: 91 Resp: 417115
Ion Ratio Lower Upper
91 100
106 32.0 22.0 40.8



#53
m,p-Xylene
Concen: 56.008 ug/L
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

Tgt Ion: 106 Resp: 166565
Ion Ratio Lower Upper
106 100
91 196.8 139.2 258.6

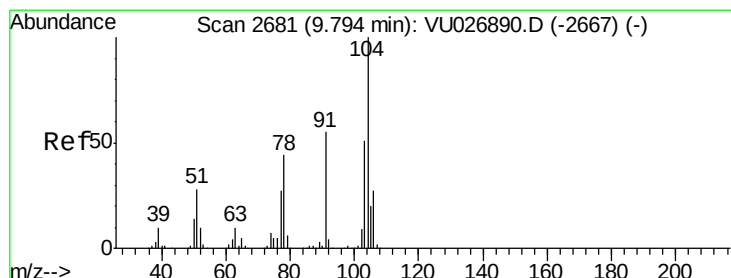
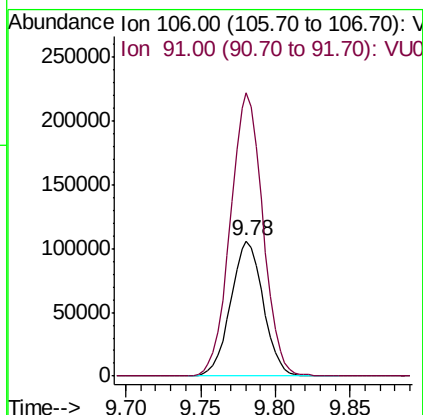
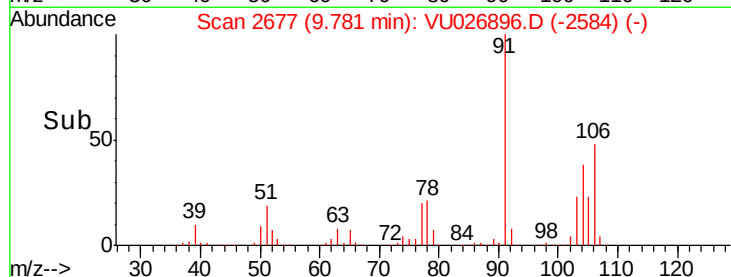
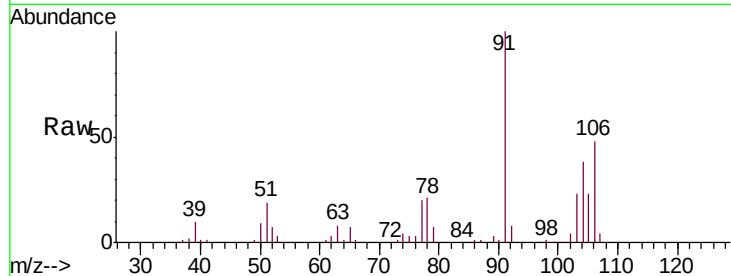




#54
o-xylene
Concen: 55.440 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

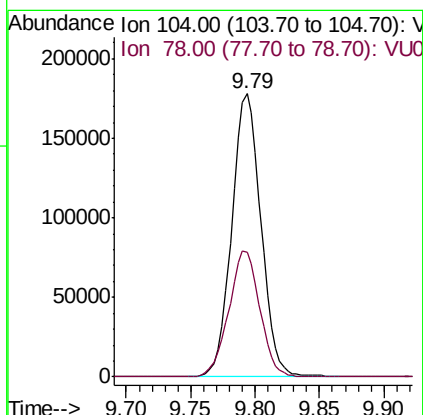
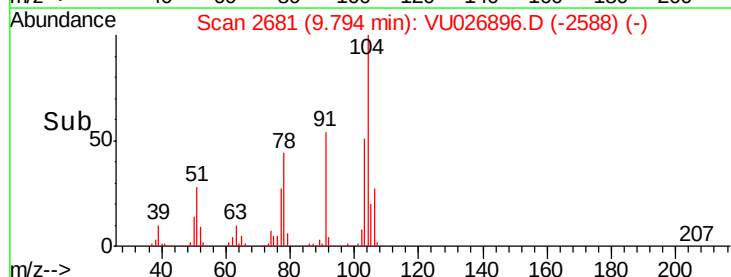
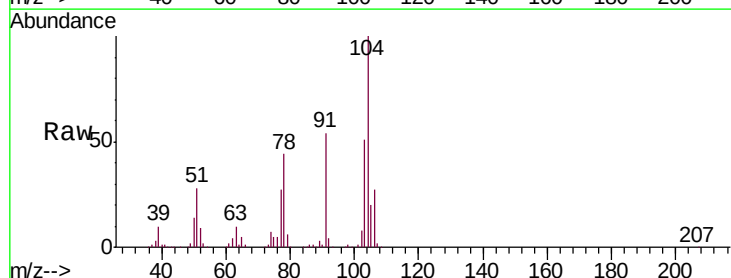
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

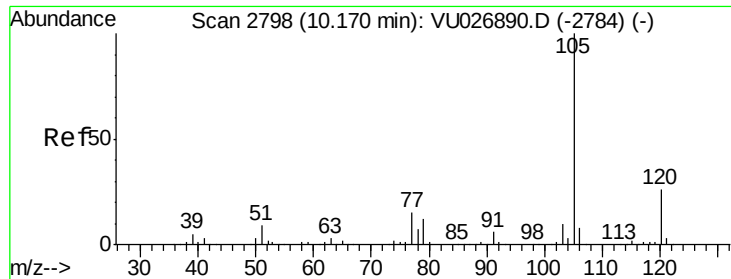
Tgt Ion:106 Resp: 160647
Ion Ratio Lower Upper
106 100
91 209.4 143.1 265.9



#55
Styrene
Concen: 55.970 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU026896.D
Acq: 19 Sep 2018 13:52

Tgt Ion:104 Resp: 280005
Ion Ratio Lower Upper
104 100
78 44.1 30.5 56.7





#56

Isopropylbenzene

Concen: 55.944 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

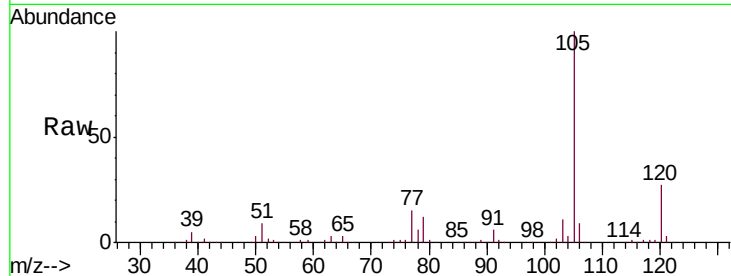
Tgt Ion: 105 Resp: 414084

Ion Ratio Lower Upper

105 100

120 27.0 21.4 32.2

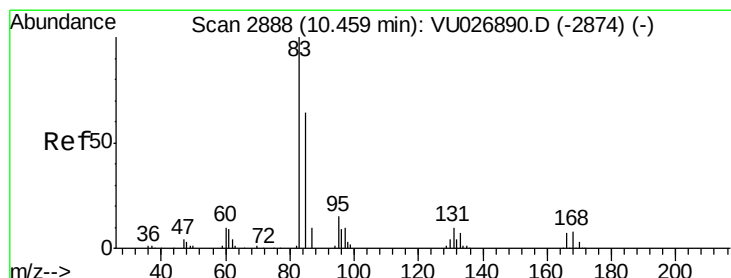
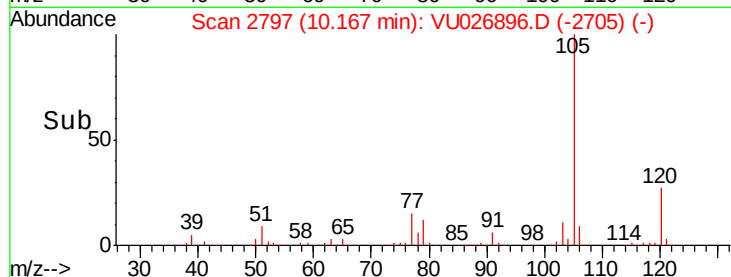
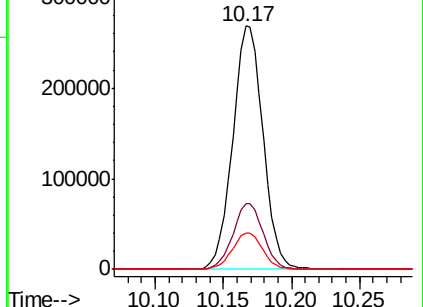
77 15.0 12.2 18.4



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: 50.659 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

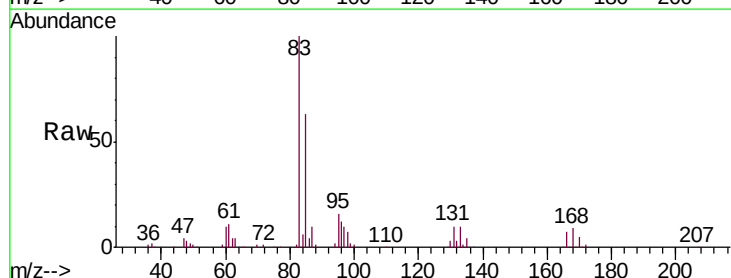
Tgt Ion: 83 Resp: 155733

Ion Ratio Lower Upper

83 100

85 63.1 45.4 84.2

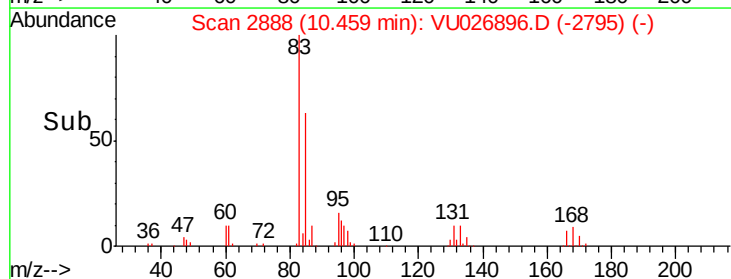
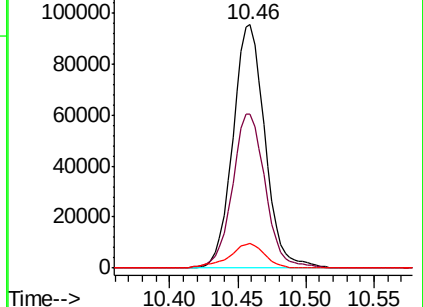
131 10.0 7.9 11.9

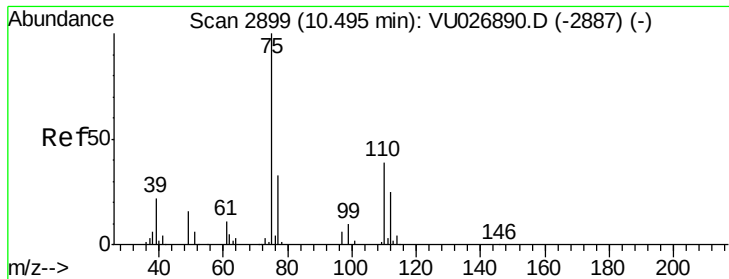


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

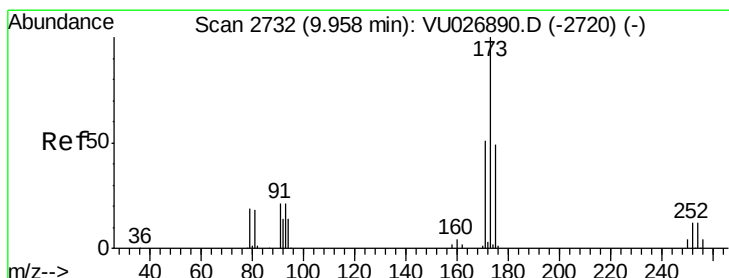
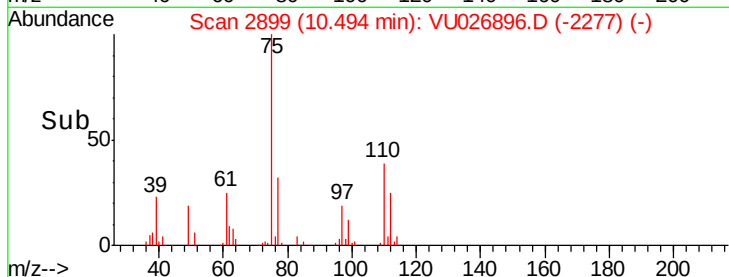
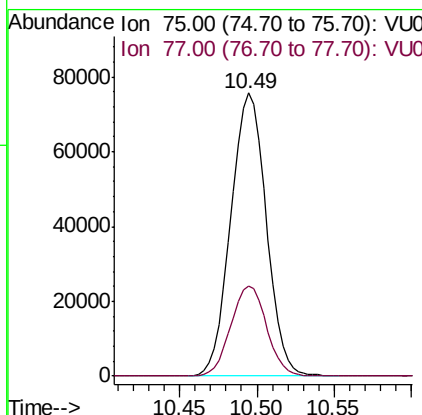
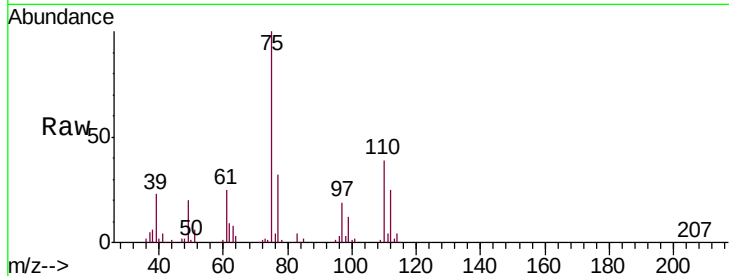




#59
 1,2,3-Trichloropropane
 Concen: 50.085 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

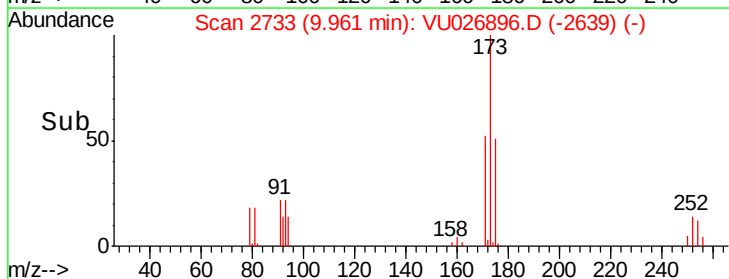
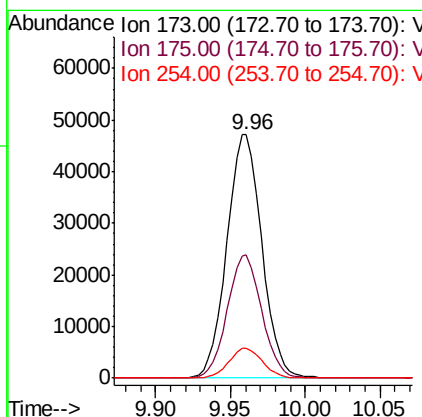
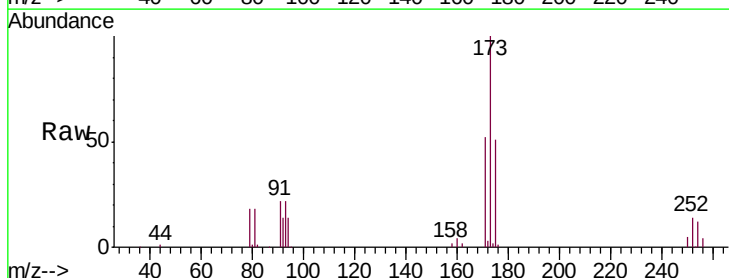
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

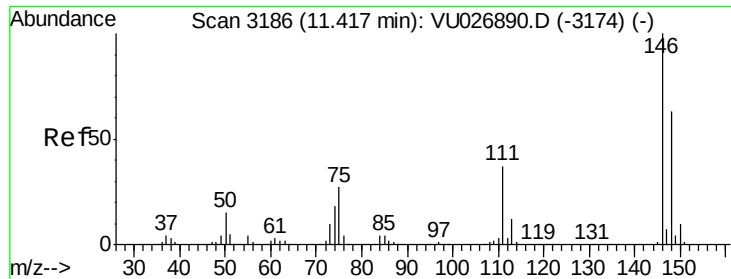
Tgt Ion: 75 Resp: 120270
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.5 38.3



#61
 Bromoform
 Concen: 47.799 ug/L
 RT: 9.96 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Tgt Ion: 173 Resp: 76788
 Ion Ratio Lower Upper
 173 100
 175 49.9 38.6 57.8
 254 11.9 9.4 14.2

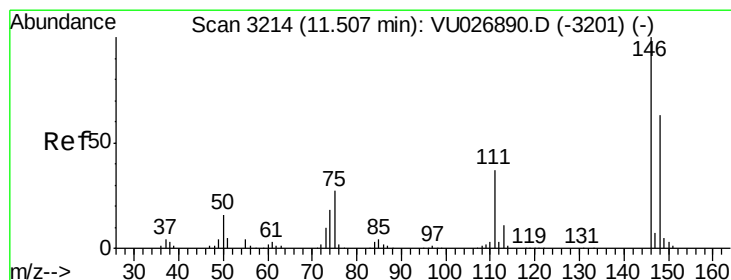
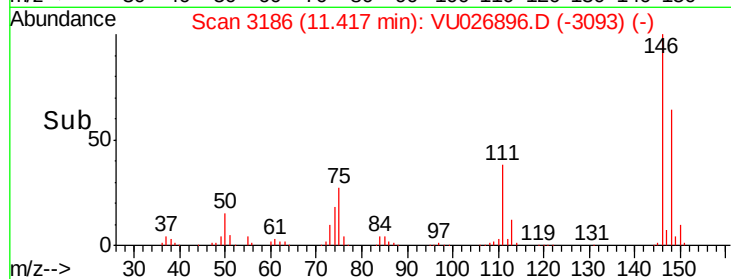
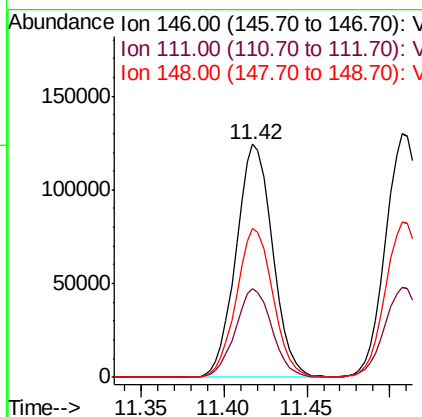
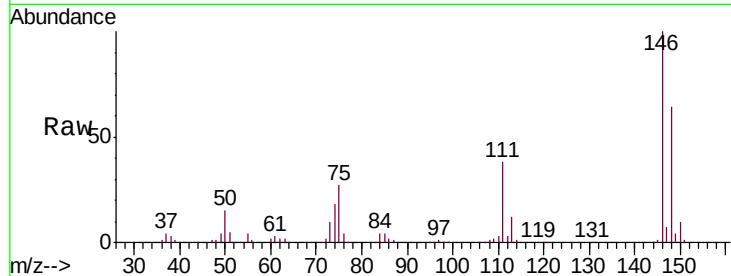




#62
 1,3-Dichlorobenzene
 Concen: 51.249 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

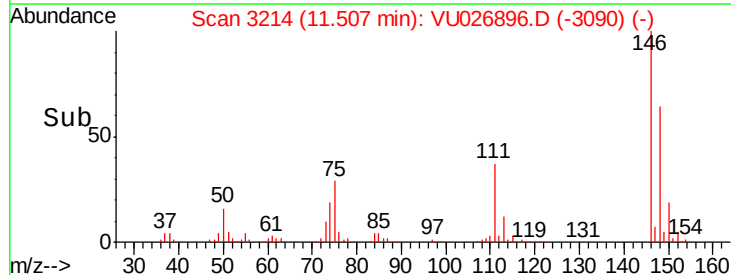
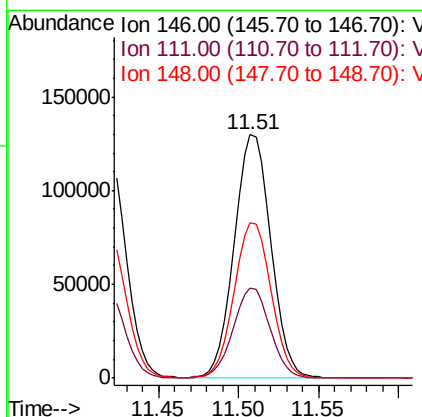
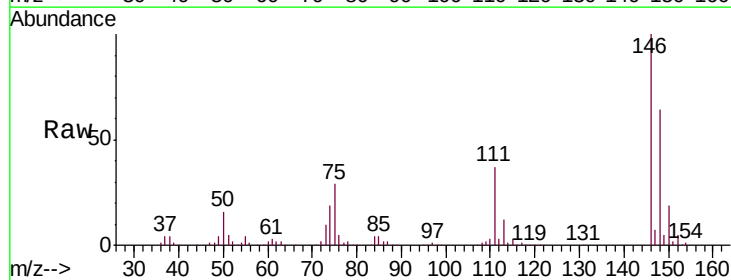
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

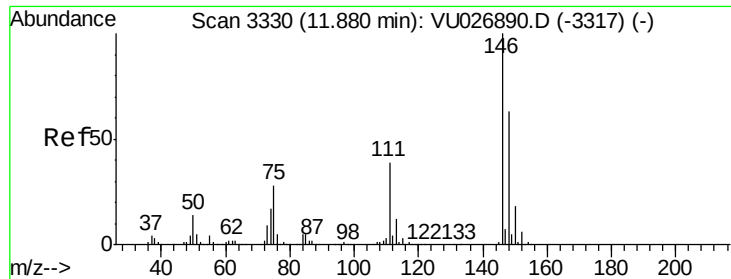
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	26.7	49.7
148	63.7	44.9	83.5



#63
 1,4-Dichlorobenzene
 Concen: 49.033 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	26.0	48.2
148	63.6	45.8	85.2

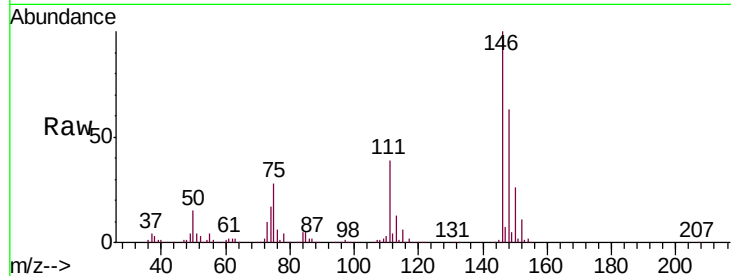




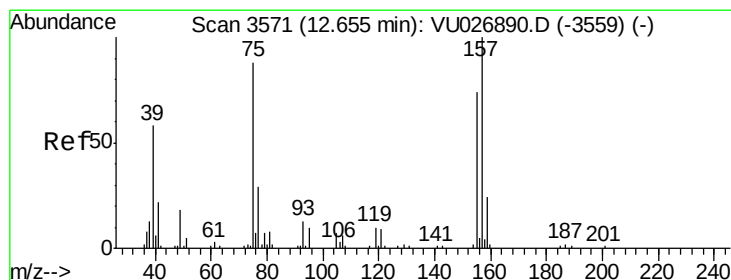
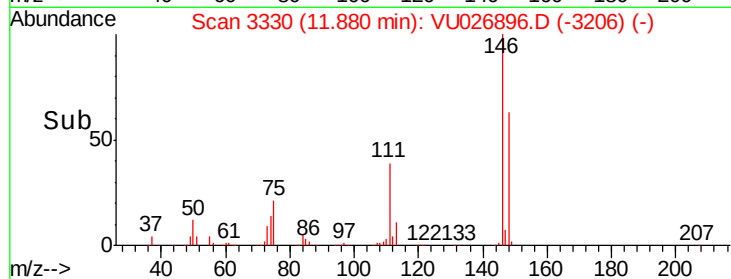
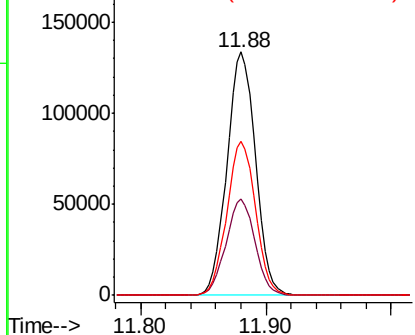
#65
 1,2-Dichlorobenzene
 Concen: 51.212 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:146 Resp: 211178
 Ion Ratio Lower Upper
 146 100
 111 39.4 31.4 47.0
 148 63.3 51.4 77.2

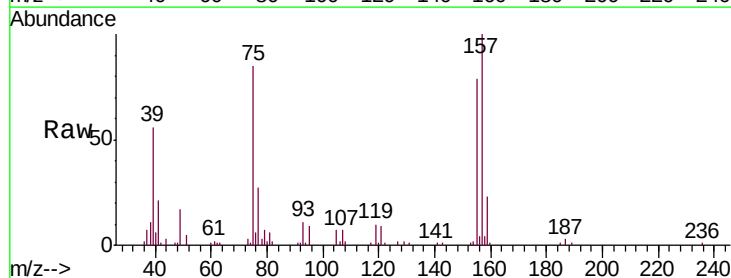


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

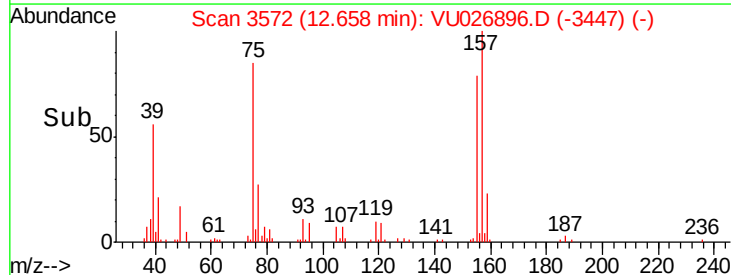
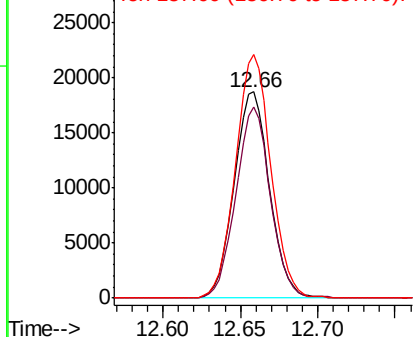


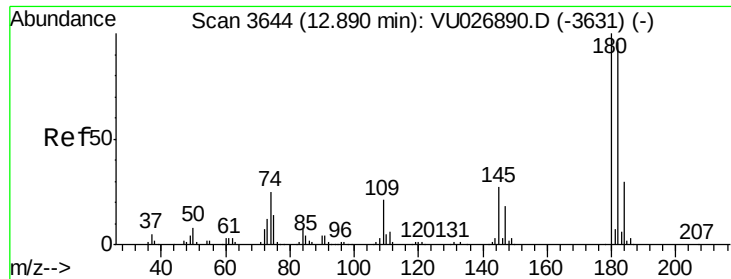
#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.396 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Tgt Ion: 75 Resp: 29650
 Ion Ratio Lower Upper
 75 100
 155 93.1 69.5 104.3
 157 118.2 90.5 135.7



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

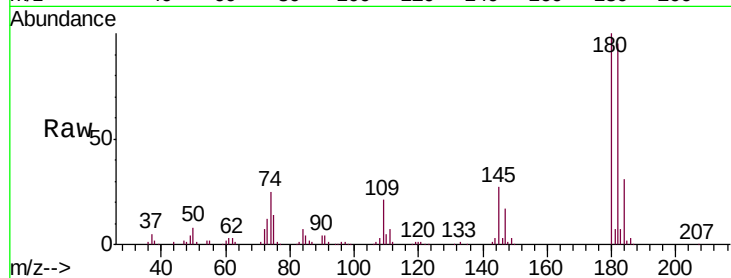




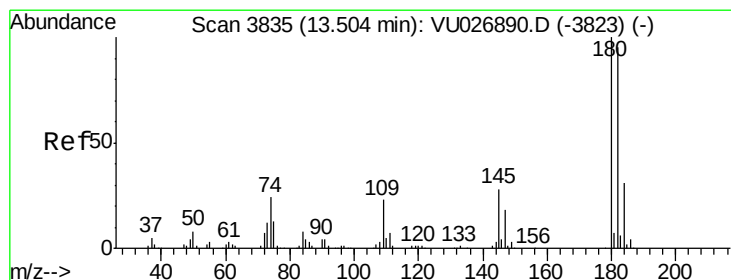
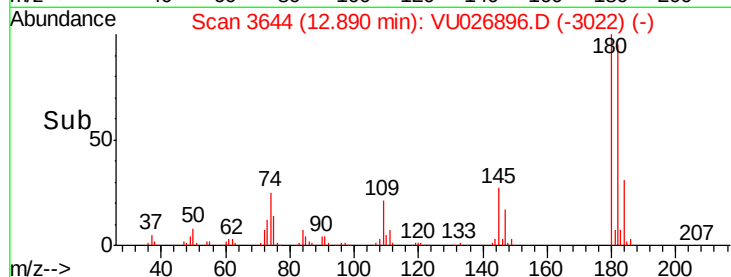
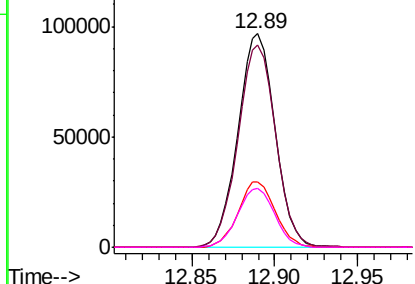
#67
 1,3,5-Trichlorobenzene
 Concen: 52.239 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.7	115.1
184	30.7	24.2	36.4
145	27.8	21.8	32.6

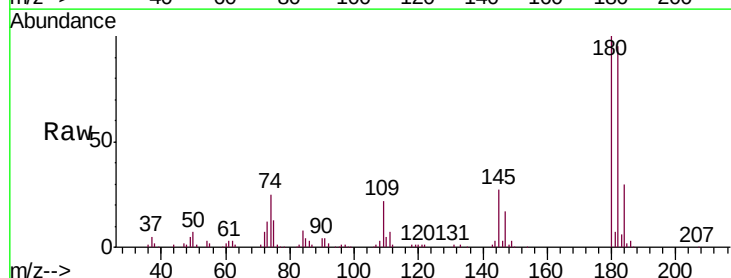


Abundance Ion 180.00 (179.70 to 180.70): V
 150000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

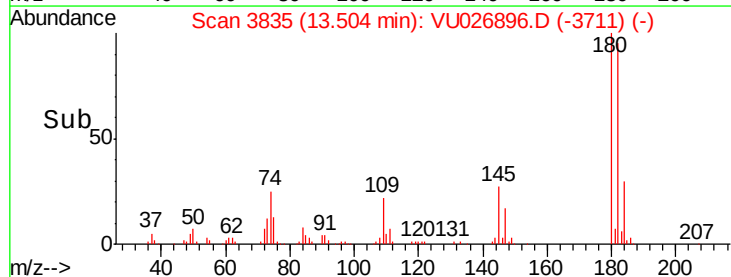
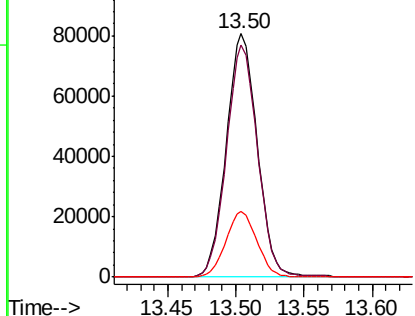


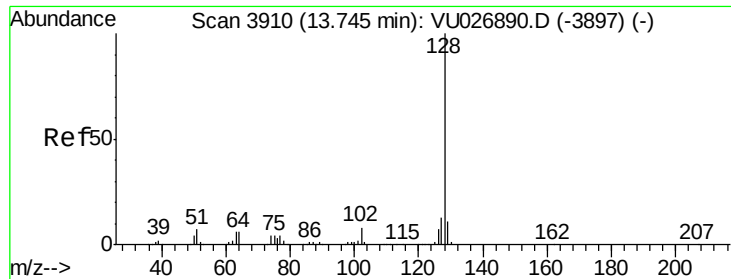
#68
 1,2,4-trichlorobenzene
 Concen: 51.509 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU026896.D
 Acq: 19 Sep 2018 13:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.8	115.2
145	27.0	22.2	33.2



Abundance Ion 180.00 (179.70 to 180.70): V
 100000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.846 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. -0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

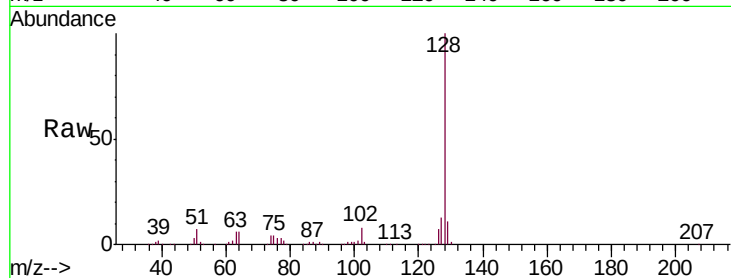
Tgt Ion:128 Resp: 401266

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

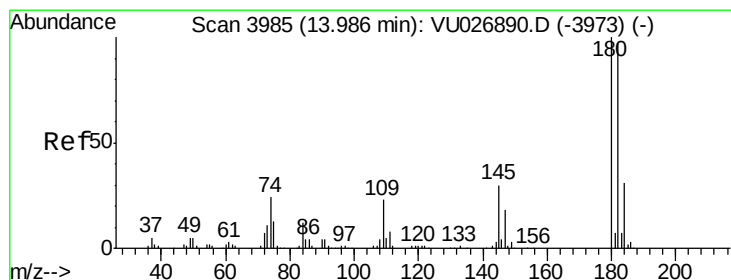
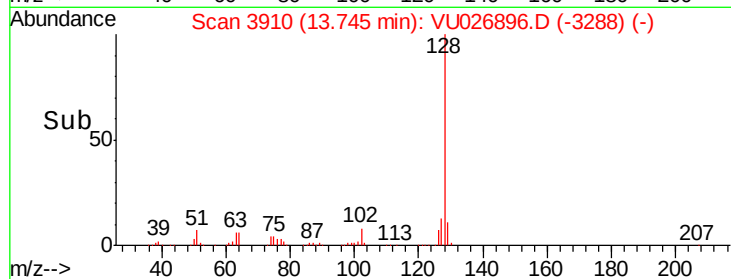
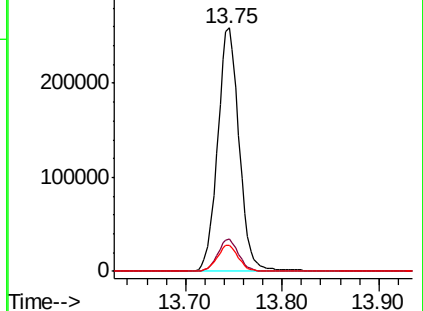
129 10.7 8.6 12.8



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: 53.571 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU026896.D

Acq: 19 Sep 2018 13:52

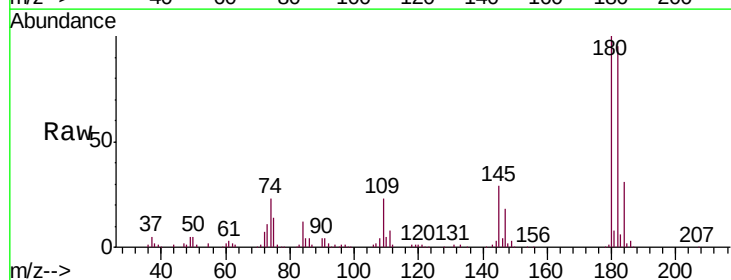
Tgt Ion:180 Resp: 146504

Ion Ratio Lower Upper

180 100

182 95.0 75.6 113.4

145 29.2 23.8 35.6



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

