

Data File : VU028606.D
Acq On : 11 Dec 2018 14:41
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Quant Time: Dec 12 05:47:23 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM120718WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 12 05:44:10 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	149339	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	142393	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	69033	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	58528	41.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.94%
7) Chloroethane-d5	1.67	69	47532	45.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.94%
11) 1,1-Dichloroethene-d2	2.27	63	108433	44.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.18%
21) 2-Butanone-d5	4.17	46	114713	102.42	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.42%
24) Chloroform-d	4.64	84	105599	47.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.68%
26) 1,2-Dichloroethane-d4	5.31	65	69637	47.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.70%
32) Benzene-d6	5.34	84	212422	47.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.42%
36) 1,2-Dichloropropane-d6	6.33	67	78123	48.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.72%
41) Toluene-d8	7.56	98	190924	47.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.06%
43) trans-1,3-Dichloropropene-	7.85	79	35974	49.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.38%
47) 2-Hexanone-d5	8.31	63	79926	103.22	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.22%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	106678	51.36	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.72%
64) 1,2-Dichlorobenzene-d4	11.86	152	72647	51.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.74%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	60796	48.879 ug/L	98
3) Chloromethane	1.33	50	92449	48.339 ug/L	99
5) Vinyl chloride	1.40	62	79966	48.306 ug/L	99
6) Bromomethane	1.61	94	25994	52.317 ug/L	93
8) Chloroethane	1.69	64	45396	47.855 ug/L	99
9) Trichlorofluoromethane	1.88	101	85390	49.399 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	50625	48.766 ug/L	99
12) 1,1-Dichloroethene	2.28	96	47252	48.031 ug/L	81
13) Acetone	2.32	43	107076	85.509 ug/L	99
14) Carbon disulfide	2.48	76	166002	45.485 ug/L	99
15) Methyl Acetate	2.61	43	86038	49.302 ug/L	99
16) Methylene chloride	2.70	84	62084	48.270 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	54526	47.800 ug/L	99
18) Methyl tert-butyl Ether	3.00	73	190598	49.599 ug/L	99
19) 1,1-Dichloroethane	3.44	63	119751	49.522 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	63312	48.936 ug/L	96
22) 2-Butanone	4.26	43	138394	93.617 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	29097	50.366	ug/L	96
25) Chloroform	4.67	83	109168	49.024	ug/L	100
27) 1,2-Dichloroethane	5.40	62	90155	48.980	ug/L	99
29) Cyclohexane	4.99	56	116568	49.465	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	85884	48.583	ug/L	99
31) Carbon tetrachloride	5.13	117	69246	48.418	ug/L	99
33) Benzene	5.39	78	252303	49.674	ug/L	100
34) Trichloroethene	6.18	95	60358	48.925	ug/L	98
35) Methylcyclohexane	6.41	83	103771	49.892	ug/L	99
37) 1,2-Dichloropropane	6.43	63	76651	50.483	ug/L	100
38) Bromodichloromethane	6.76	83	83257	49.861	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	108090	50.159	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	231090	99.949	ug/L	99
42) Toluene	7.64	91	254609	49.344	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	97503	49.055	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	60888	51.175	ug/L	97
46) Tetrachloroethene	8.22	164	42535	48.727	ug/L	98
48) 2-Hexanone	8.36	43	191697	97.985	ug/L	99
49) Dibromochloromethane	8.48	129	60331	50.126	ug/L	99
50) 1,2-Dibromoethane	8.58	107	62259	49.894	ug/L	97
51) Chlorobenzene	9.12	112	153398	49.349	ug/L	99
52) Ethylbenzene	9.25	91	282090	49.383	ug/L	100
53) m,p-Xylene	9.37	106	100334	48.520	ug/L	100
54) o-xylene	9.78	106	102157	50.310	ug/L	97
55) Styrene	9.79	104	173765	50.400	ug/L	99
56) Isopropylbenzene	10.16	105	268786	50.782	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	109699	50.197	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	86009	50.134	ug/L	99
61) Bromoform	9.96	173	44022	49.833	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	113298	48.088	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	114078	47.847	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	117116	49.751	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	22757	49.099	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	85830	50.163	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	75289	46.912	ug/L	98
69) Naphthalene	13.74	128	257232	48.291	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	76891	47.963	ug/L	99

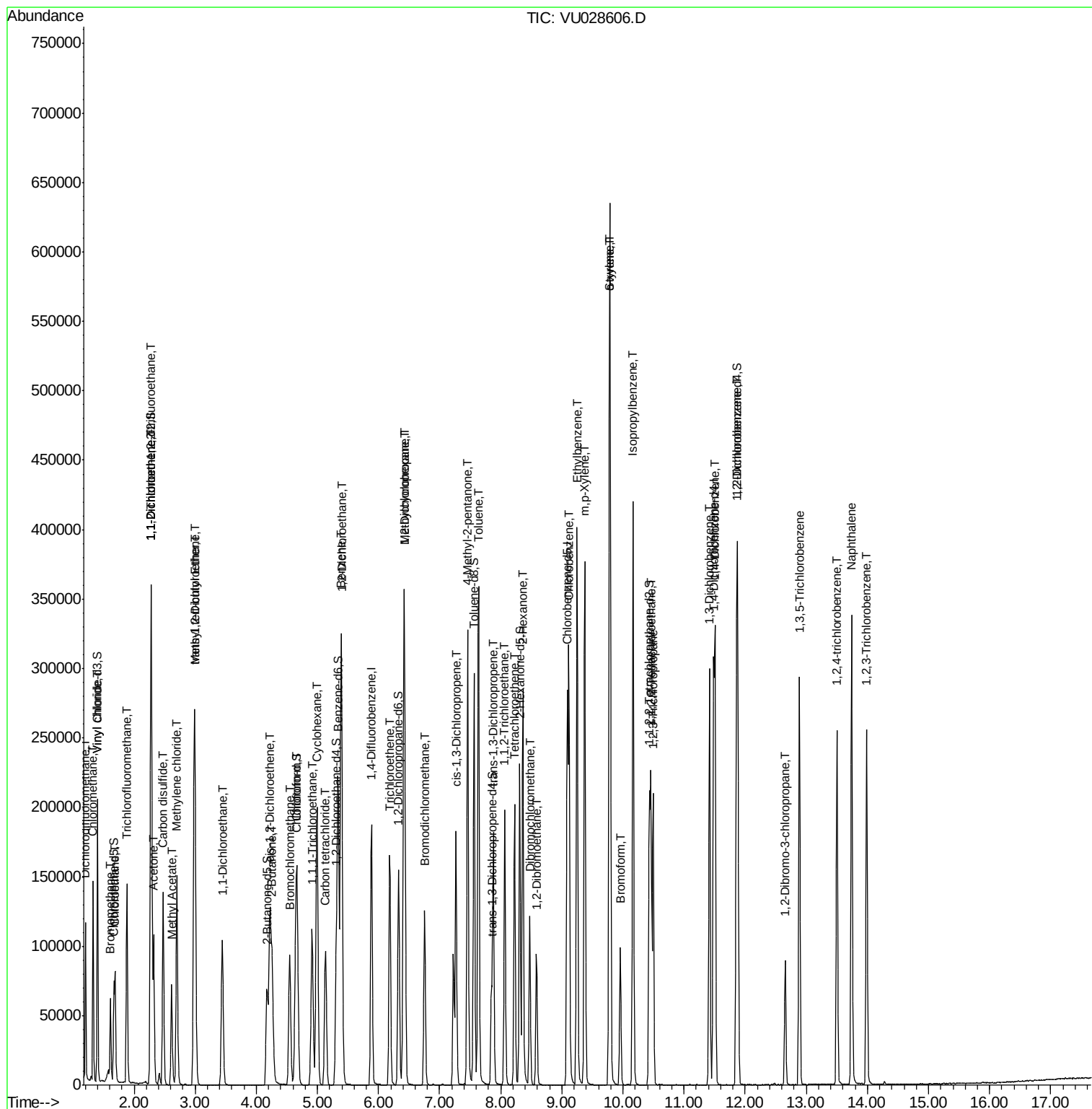
(#) = qualifier out of range (m) = manual integration (+) = signals summed

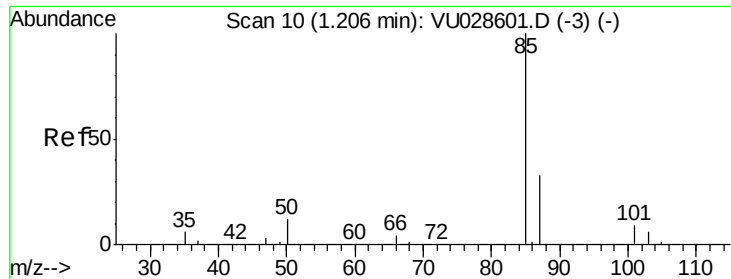
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#2

Dichlorodifluoromethane

Concen: 48.879 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

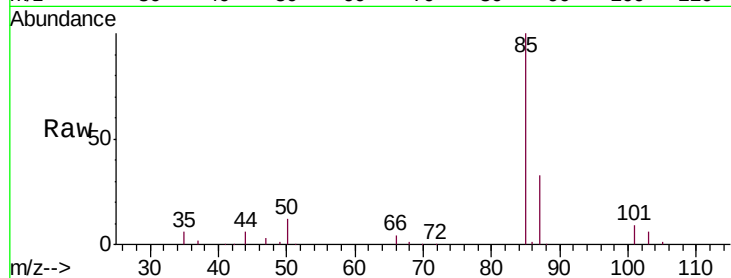
VSTD05044

Tgt Ion: 85 Resp: 60796

Ion Ratio Lower Upper

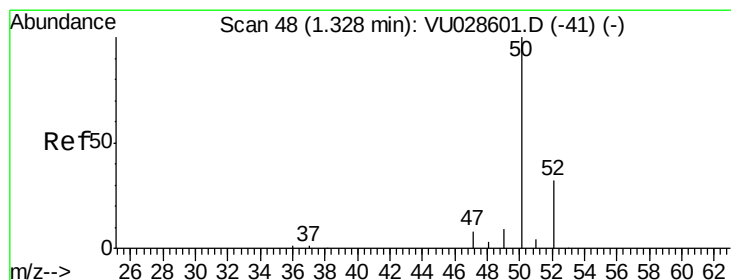
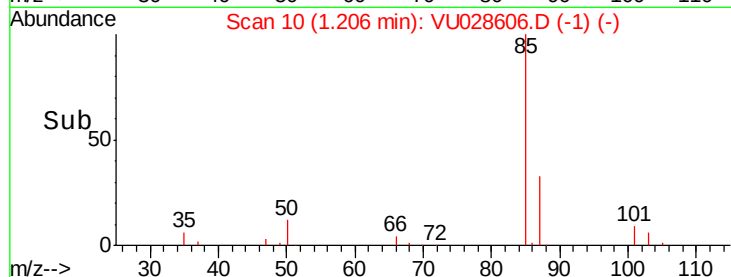
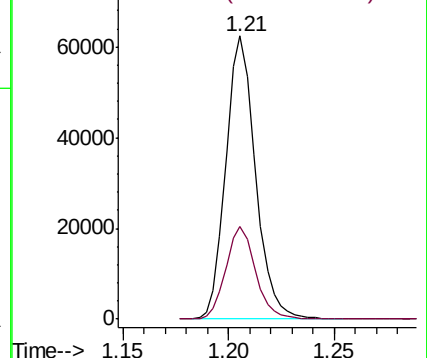
85 100

87 32.5 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 48.339 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028606.D

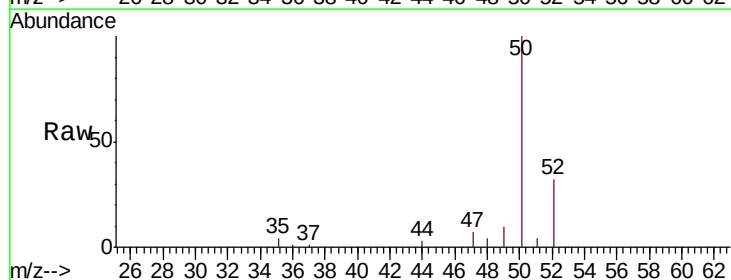
Acq: 11 Dec 2018 14:41

Tgt Ion: 50 Resp: 92449

Ion Ratio Lower Upper

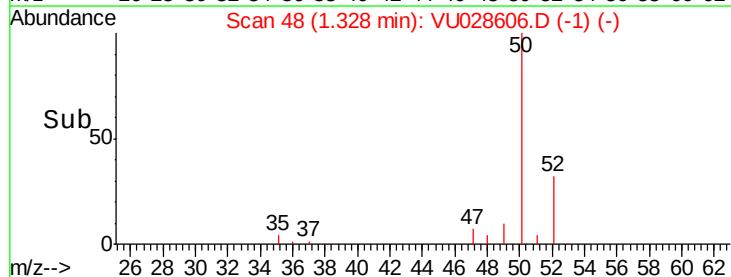
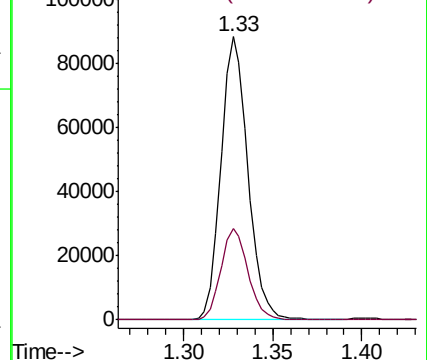
50 100

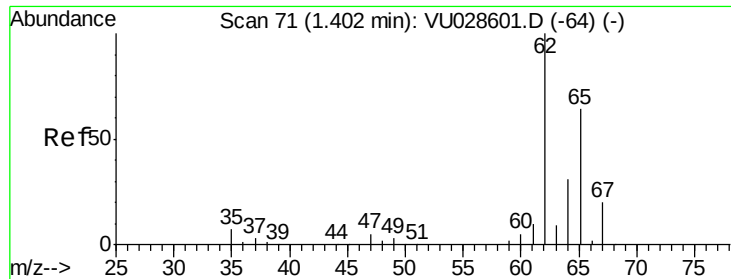
52 32.1 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 48.306 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

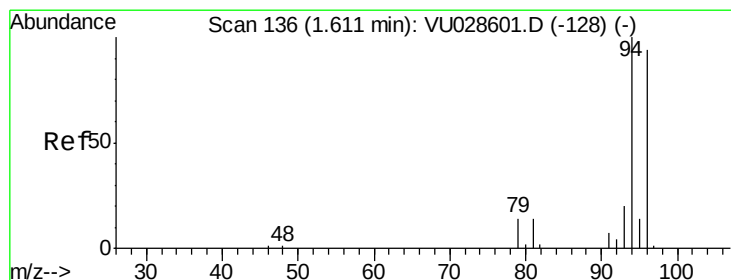
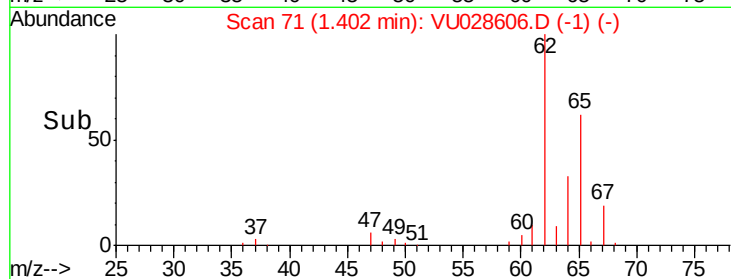
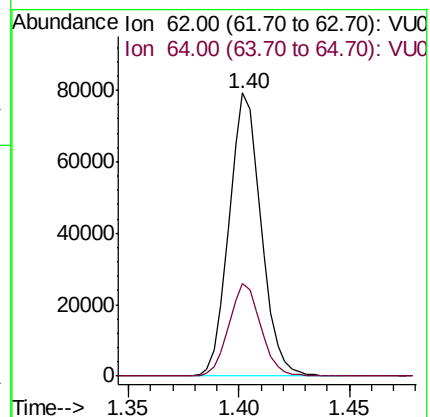
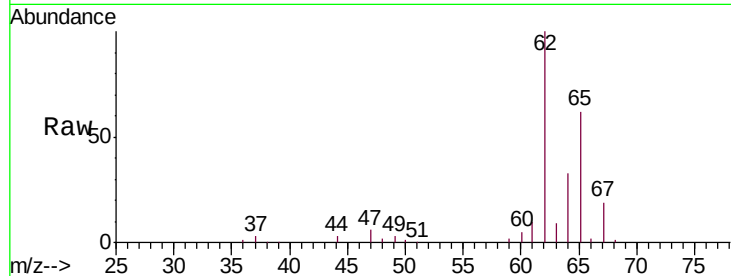
VSTD05044

Tgt Ion: 62 Resp: 79966

Ion Ratio Lower Upper

62 100

64 32.6 22.3 41.5



#6

Bromomethane

Concen: 52.317 ug/L

RT: 1.61 min Scan# 137

Delta R.T. 0.00 min

Lab File: VU028606.D

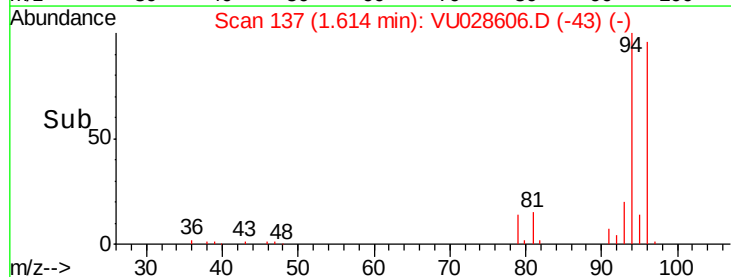
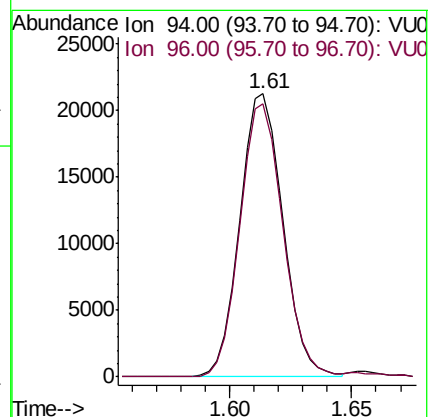
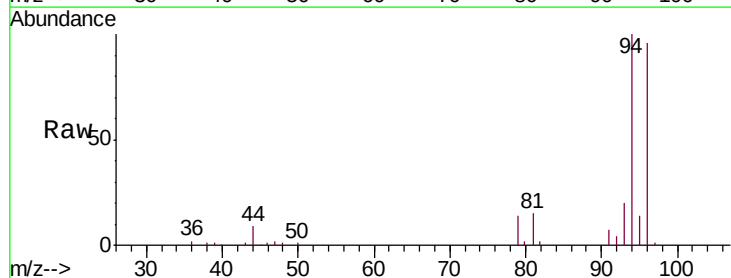
Acq: 11 Dec 2018 14:41

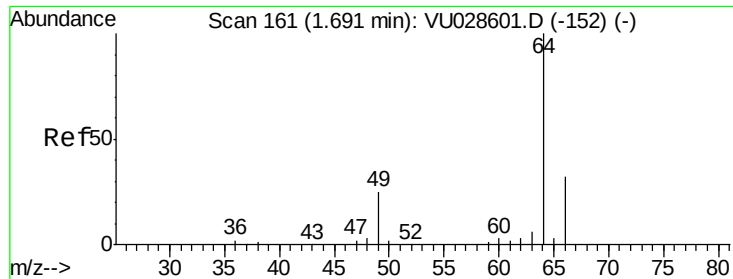
Tgt Ion: 94 Resp: 25994

Ion Ratio Lower Upper

94 100

96 96.4 62.9 116.9





#8

Chloroethane

Concen: 47.855 ug/L

RT: 1.69 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

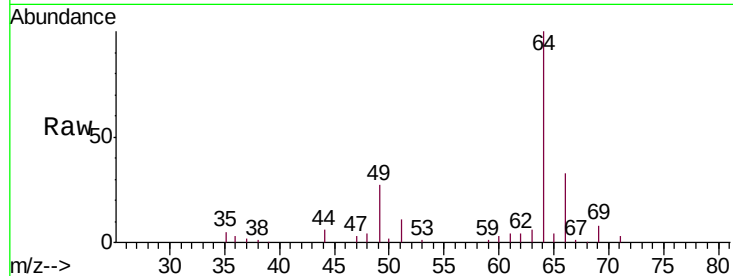
VSTD05044

Tgt Ion: 64 Resp: 45396

Ion Ratio Lower Upper

64 100

66 32.7 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU028601.D (-152) (-)

Ion 66.00 (65.70 to 66.70): VU028601.D (-152) (-)

1.69

40000

30000

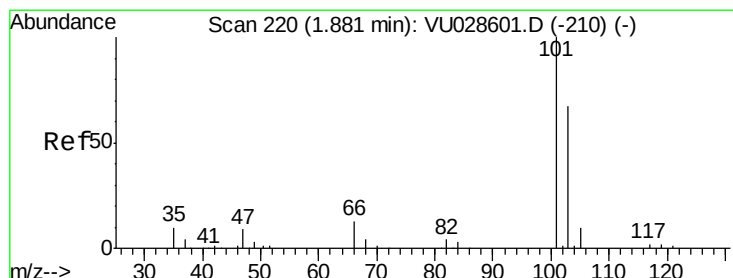
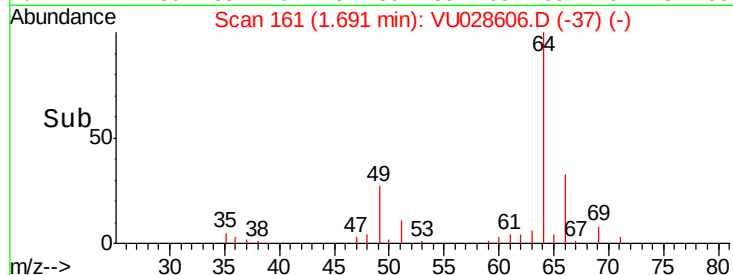
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 49.399 ug/L

RT: 1.88 min Scan# 220

Delta R.T. -0.00 min

Lab File: VU028606.D

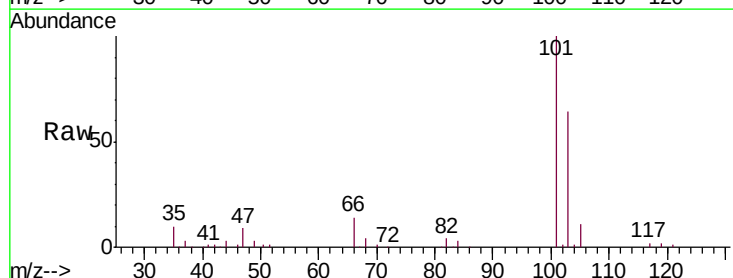
Acq: 11 Dec 2018 14:41

Tgt Ion: 101 Resp: 85390

Ion Ratio Lower Upper

101 100

103 64.3 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU028601.D (-210) (-)

Ion 103.00 (102.70 to 103.70): VU028601.D (-210) (-)

1.88

60000

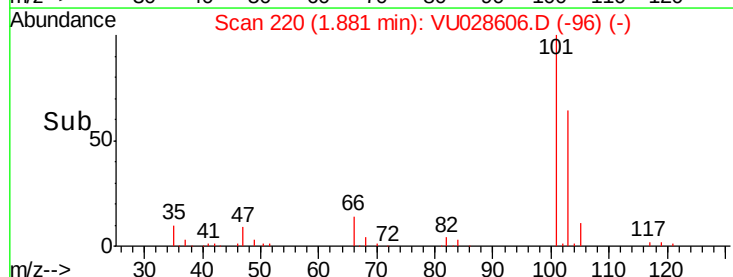
40000

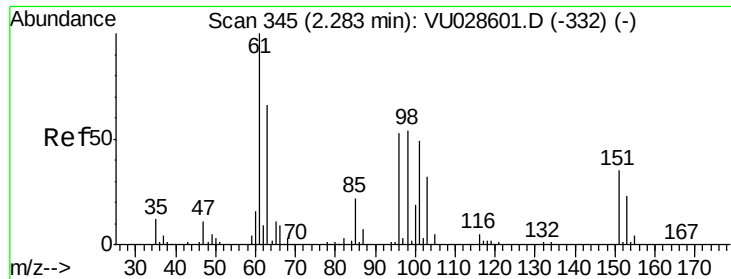
20000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 48.766 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

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ClientSampleId :

VSTD05044

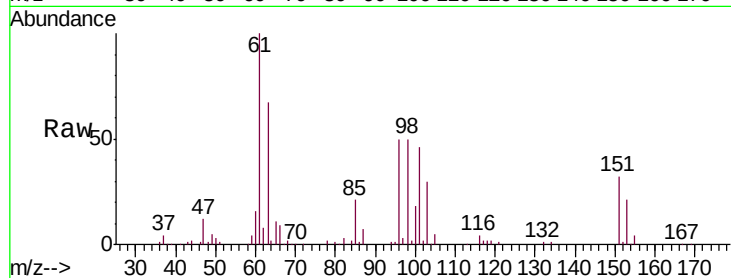
Tgt Ion:101 Resp: 50625

Ion Ratio Lower Upper

101 100

85 45.8 36.8 55.2

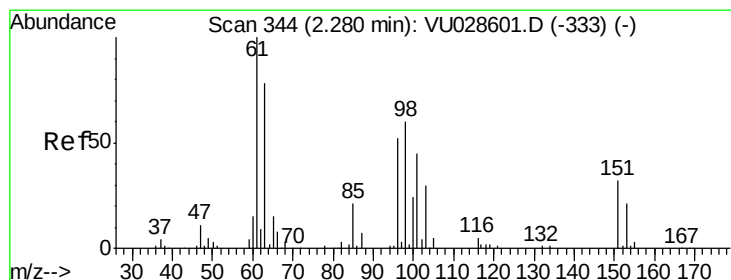
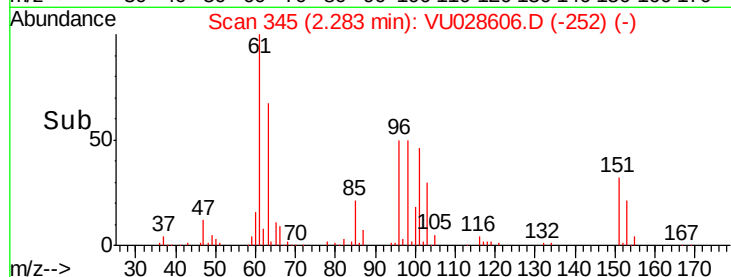
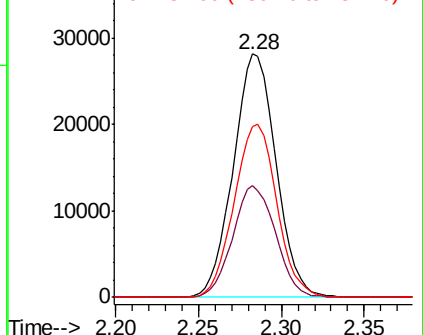
151 70.6 55.8 83.8



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: 48.031 ug/L

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

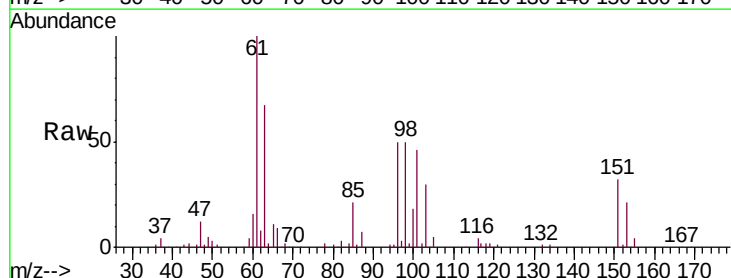
Tgt Ion: 96 Resp: 47252

Ion Ratio Lower Upper

96 100

61 200.1 143.2 266.0

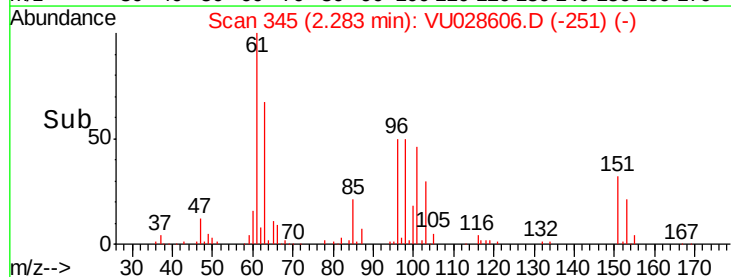
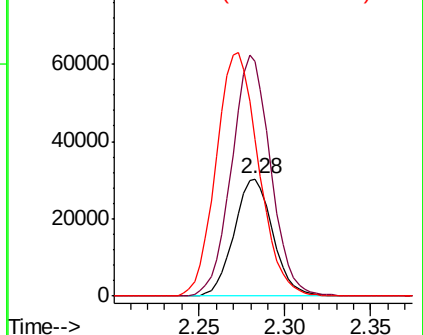
63 133.8 130.1 241.7

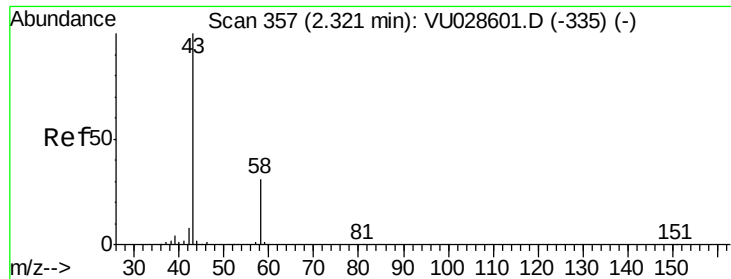


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 85.509 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

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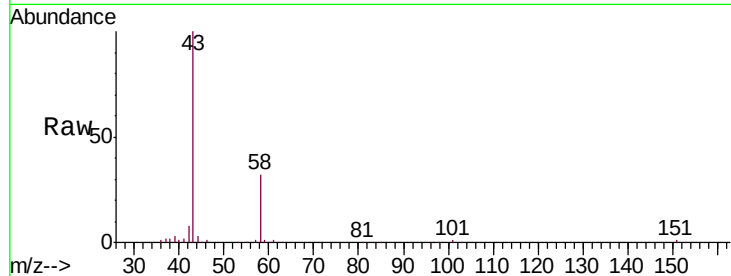
VSTD05044

Tgt Ion: 43 Resp: 107076

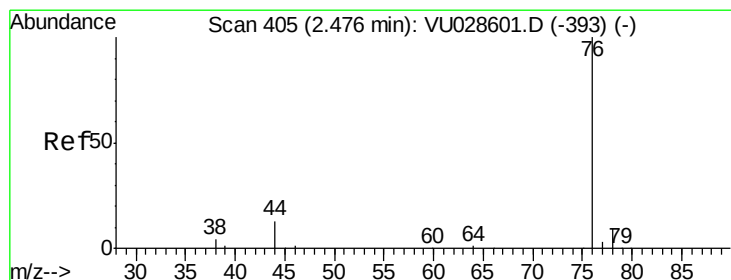
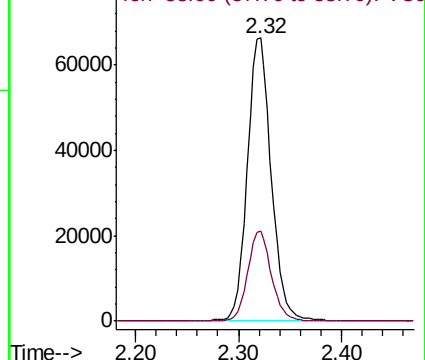
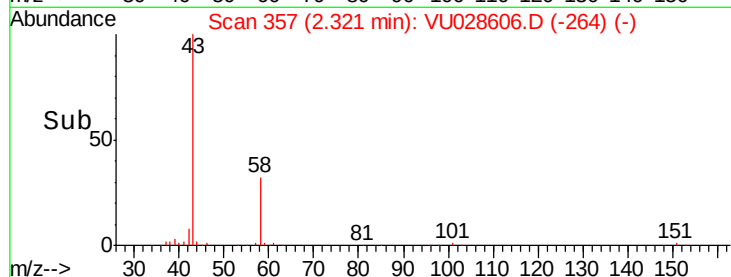
Ion Ratio Lower Upper

43 100

58 31.6 0.0 62.0



Abundance Ion 43.00 (42.70 to 43.70): VU028606.D (-264) (-)



#14

Carbon disulfide

Concen: 45.485 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028606.D

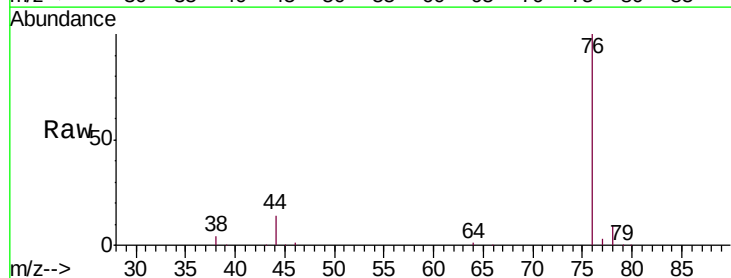
Acq: 11 Dec 2018 14:41

Tgt Ion: 76 Resp: 166002

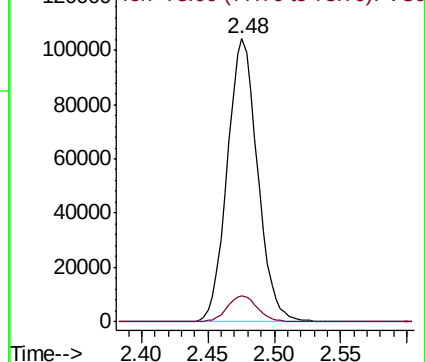
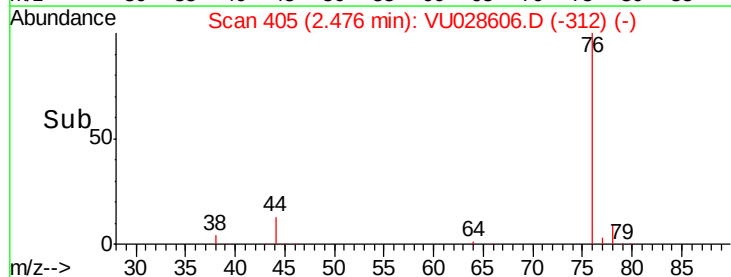
Ion Ratio Lower Upper

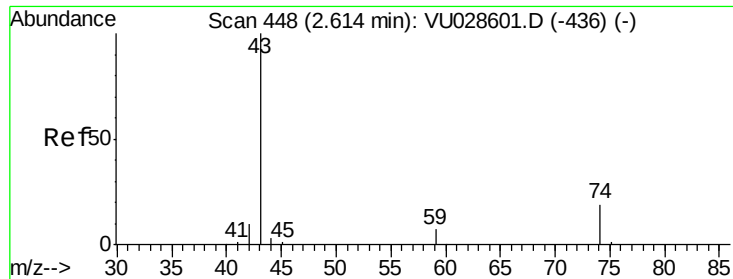
76 100

78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU028606.D (-312) (-)

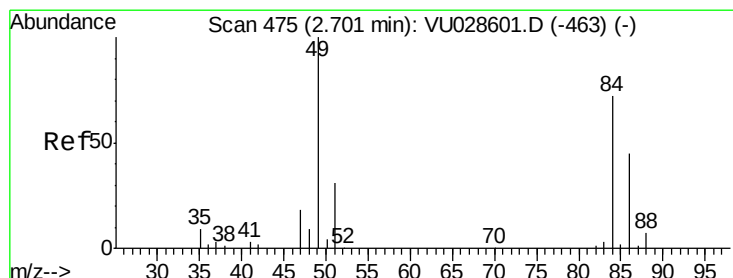
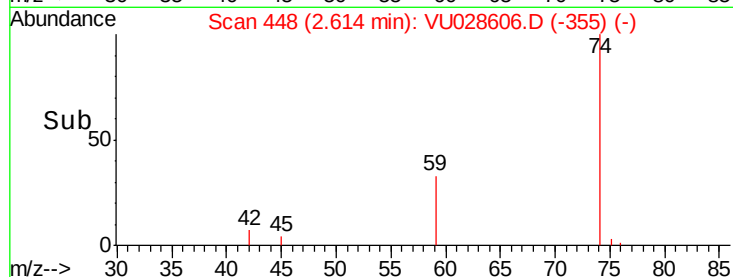
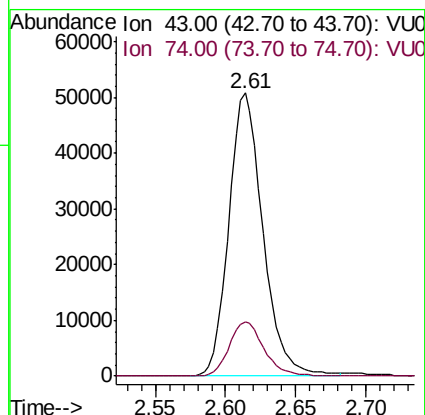
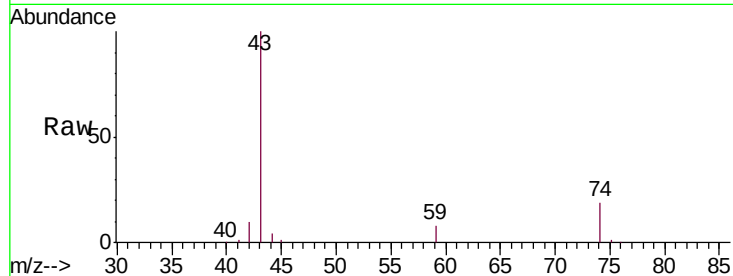




#15
Methyl Acetate
Concen: 49.302 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU028606.D
Acq: 11 Dec 2018 14:41

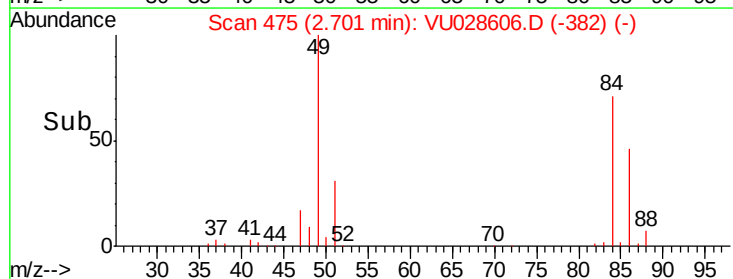
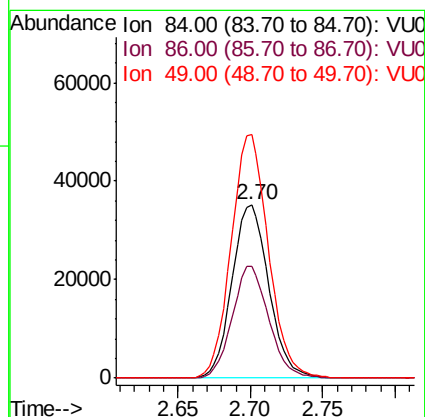
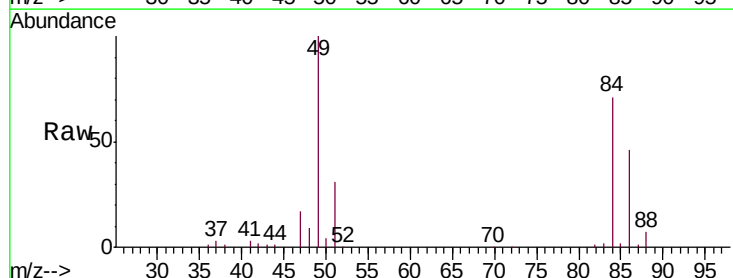
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

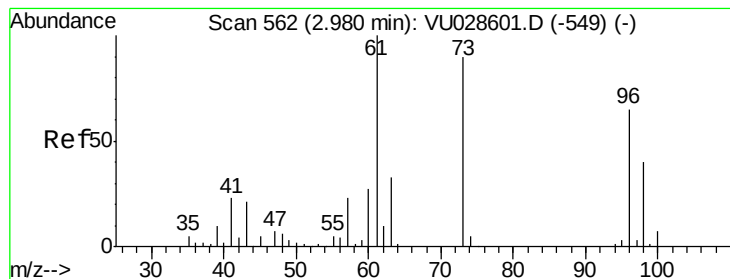
Tgt Ion: 43 Resp: 86038
Ion Ratio Lower Upper
43 100
74 19.4 15.4 23.0



#16
Methylene chloride
Concen: 48.270 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028606.D
Acq: 11 Dec 2018 14:41

Tgt Ion: 84 Resp: 62084
Ion Ratio Lower Upper
84 100
86 64.6 44.3 82.3
49 140.4 100.0 185.6





#17

trans-1,2-Dichloroethene

Concen: 47.800 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

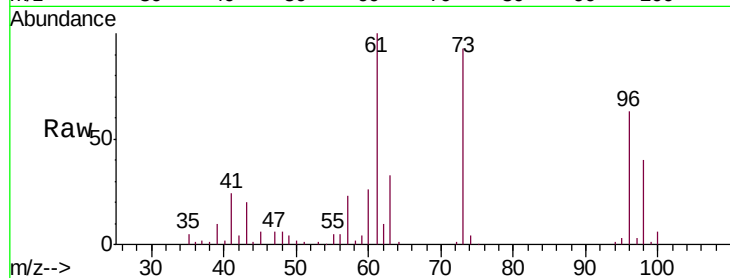
Tgt Ion: 96 Resp: 54526

Ion Ratio Lower Upper

96 100

61 159.7 112.8 209.4

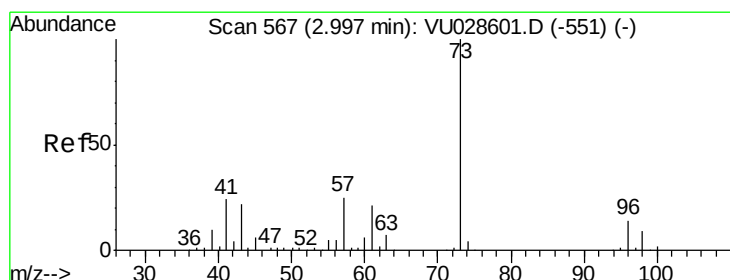
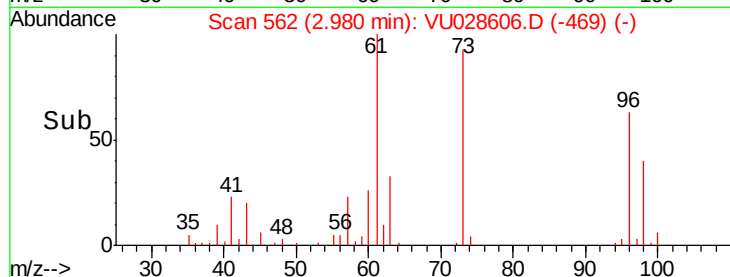
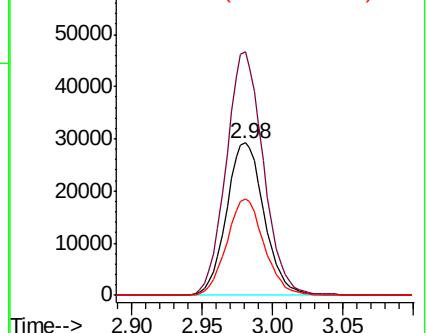
98 63.4 43.8 81.3



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: 49.599 ug/L

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

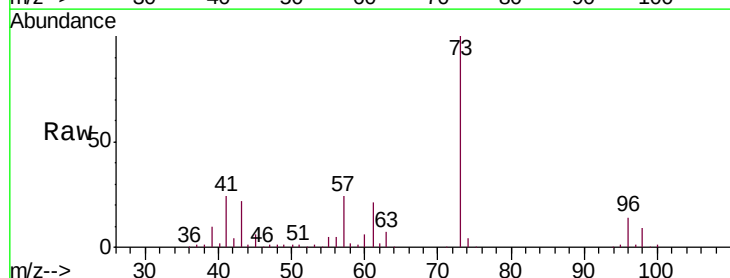
Tgt Ion: 73 Resp: 190598

Ion Ratio Lower Upper

73 100

43 21.8 18.1 27.1

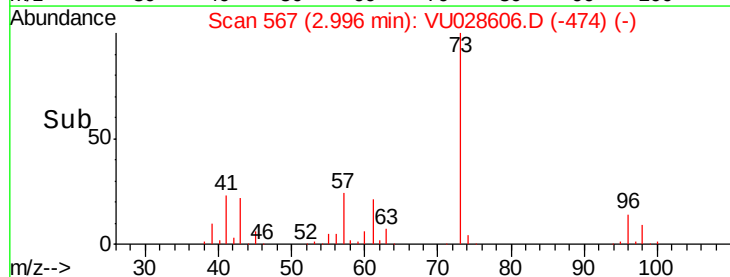
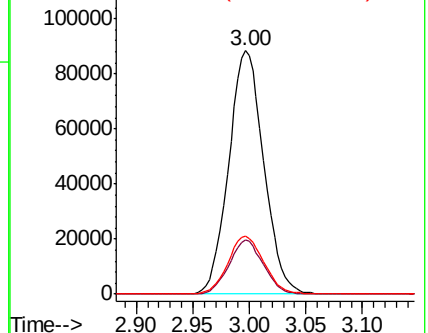
57 24.2 19.7 29.5

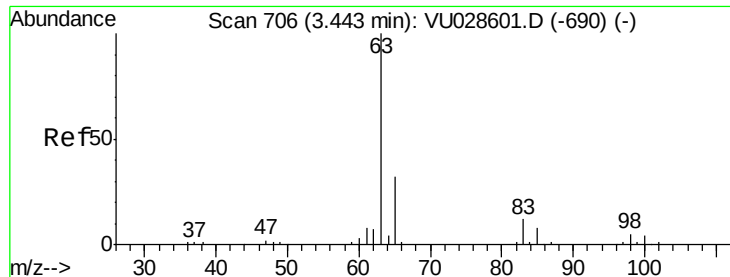


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

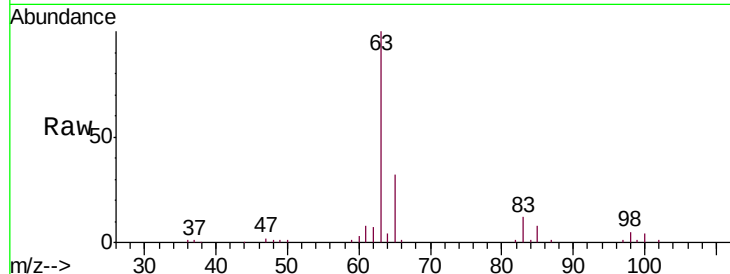




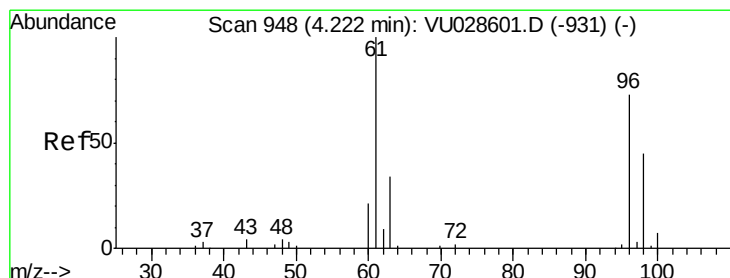
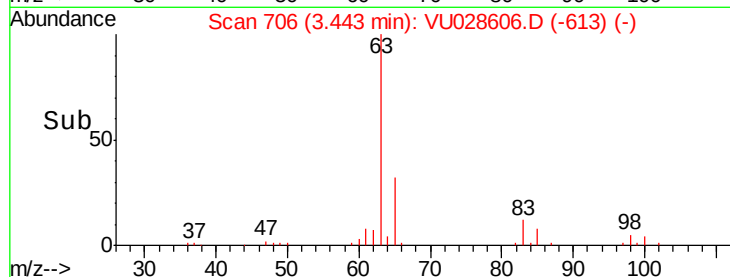
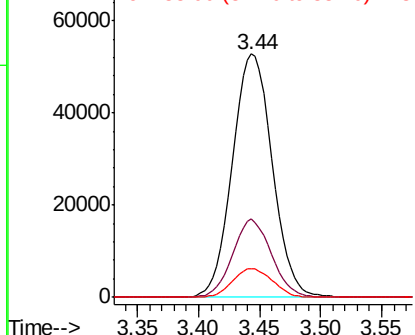
#19
 1,1-Dichloroethane
 Concen: 49.522 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU028606.D
 Acq: 11 Dec 2018 14:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion: 63 Resp: 119751
 Ion Ratio Lower Upper
 63 100
 65 32.0 21.8 40.4
 83 11.9 8.5 15.7

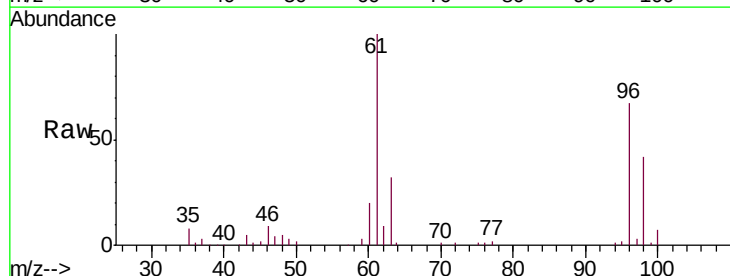


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

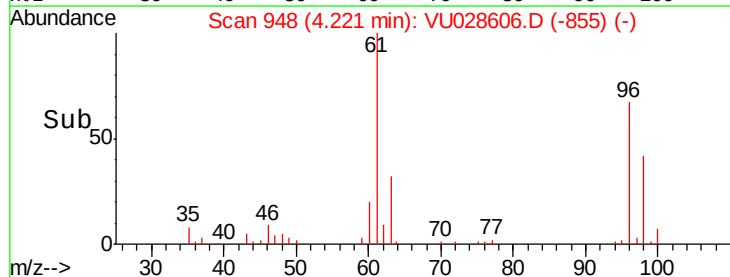
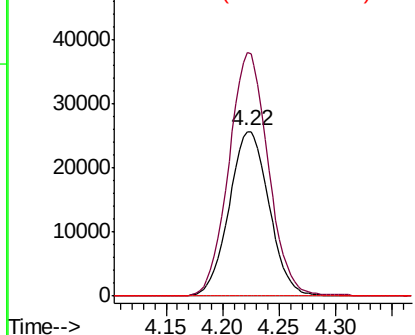


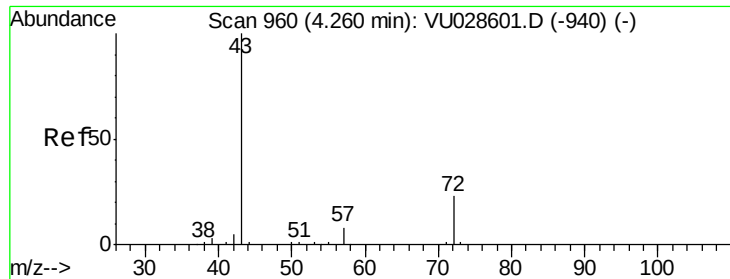
#20
 cis-1,2-Dichloroethene
 Concen: 48.936 ug/L
 RT: 4.22 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: VU028606.D
 Acq: 11 Dec 2018 14:41

Tgt Ion: 96 Resp: 63312
 Ion Ratio Lower Upper
 96 100
 61 148.2 100.1 185.9
 68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 93.617 ug/L

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

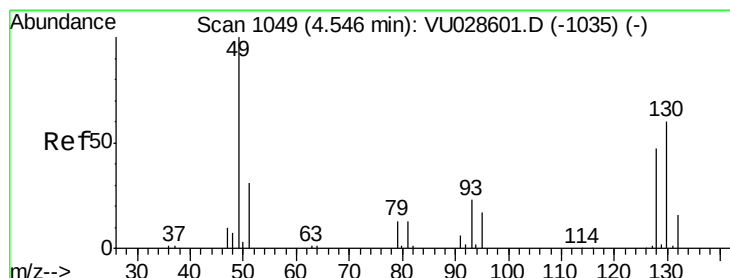
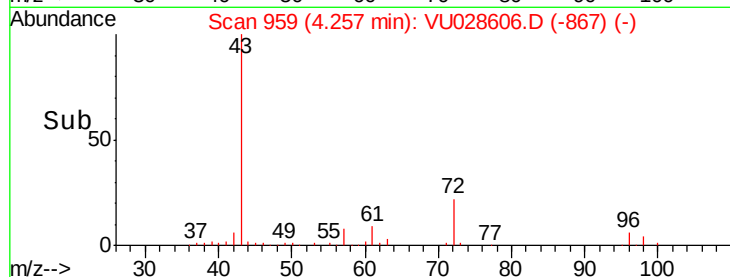
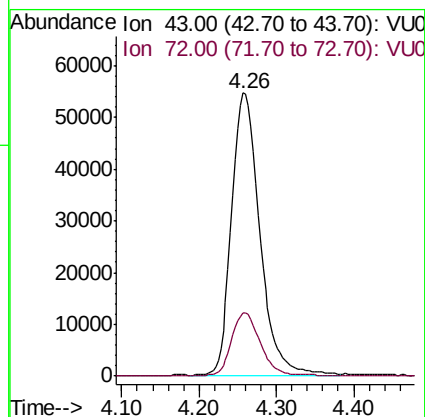
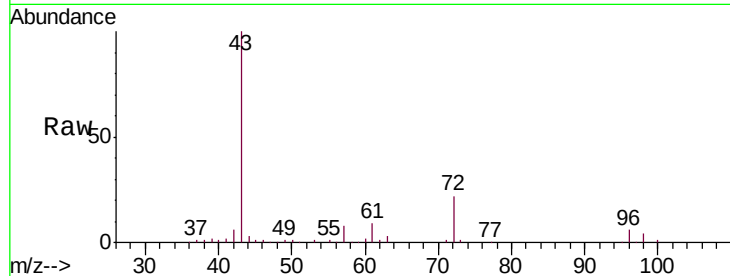
VSTD05044

Tgt Ion: 43 Resp: 138394

Ion Ratio Lower Upper

43 100

72 22.9 11.9 35.5



#23

Bromochloromethane

Concen: 50.366 ug/L

RT: 4.55 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Tgt Ion: 128 Resp: 29097

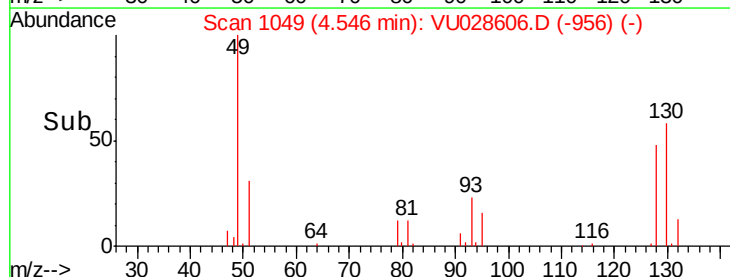
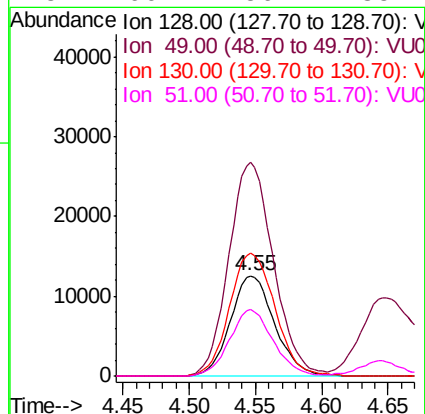
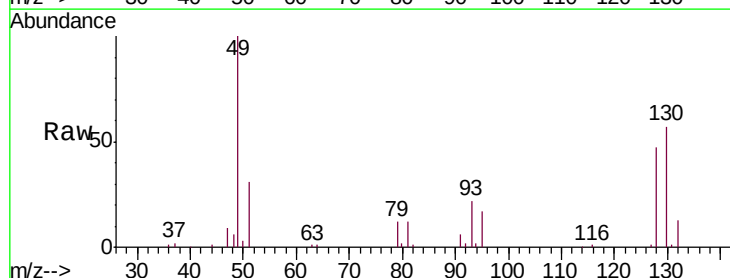
Ion Ratio Lower Upper

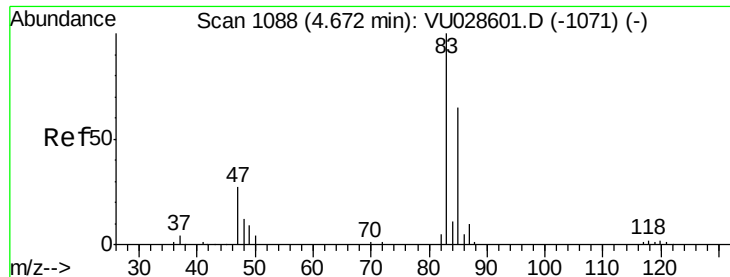
128 100

49 213.5 150.8 280.1

130 122.5 90.9 168.7

51 66.1 56.7 85.1

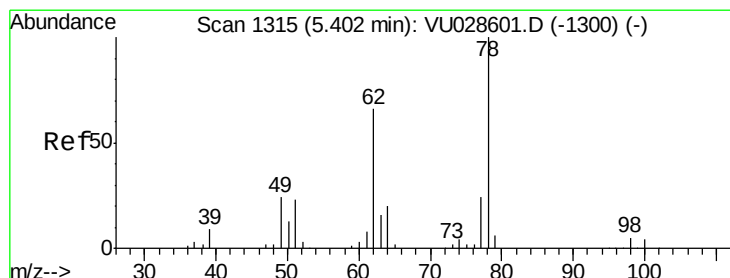
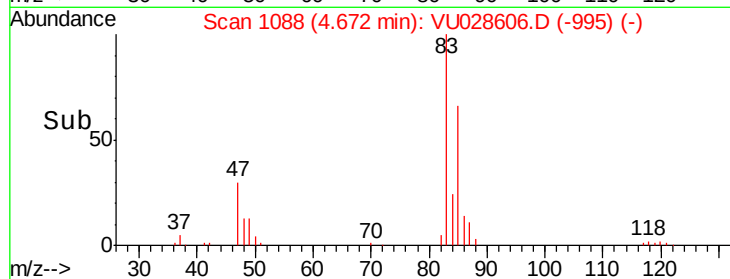
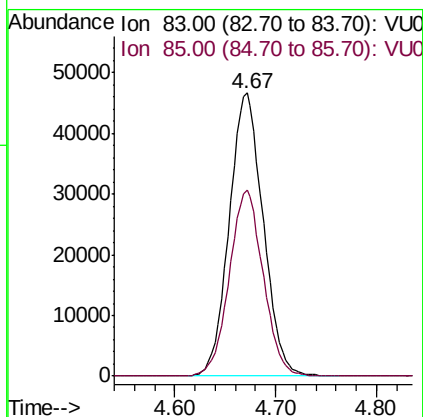
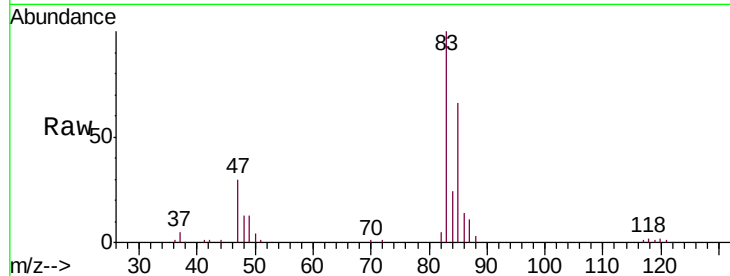




#25
Chloroform
Concen: 49.024 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028606.D
Acq: 11 Dec 2018 14:41

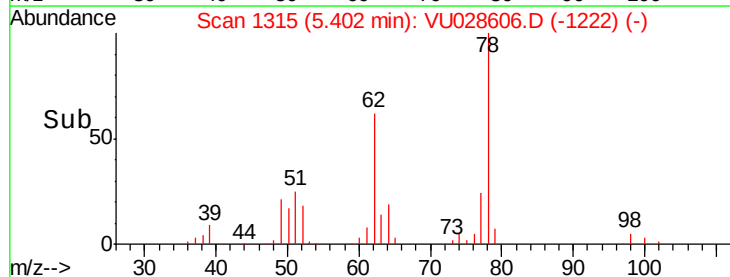
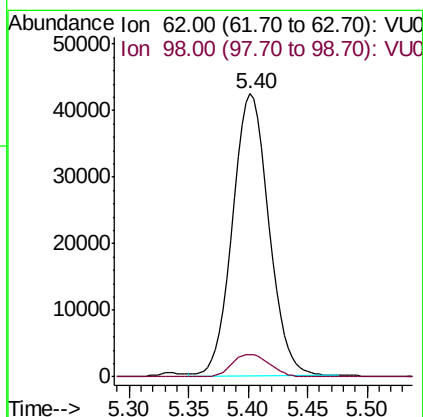
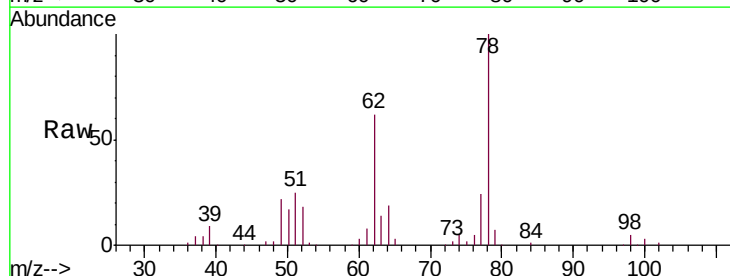
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

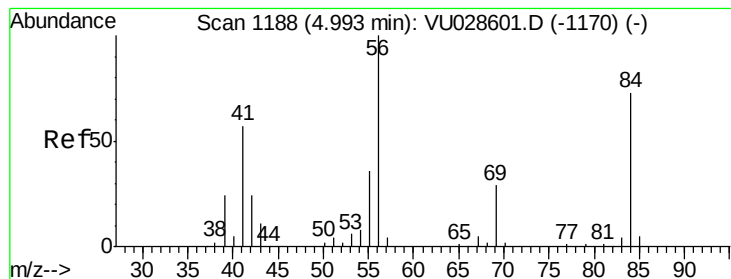
Tgt Ion: 83 Resp: 109168
Ion Ratio Lower Upper
83 100
85 65.6 46.0 85.4



#27
1,2-Dichloroethane
Concen: 48.980 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU028606.D
Acq: 11 Dec 2018 14:41

Tgt Ion: 62 Resp: 90155
Ion Ratio Lower Upper
62 100
98 7.9 6.7 10.1





#29

Cyclohexane

Concen: 49.465 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

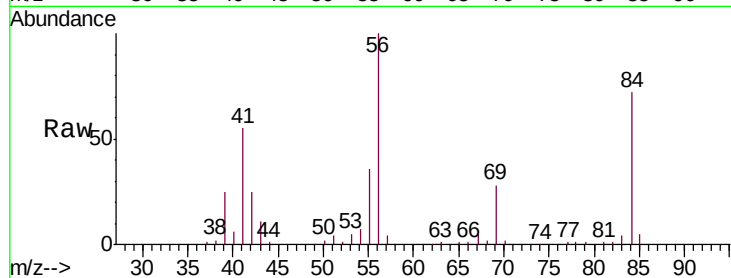
Tgt Ion: 56 Resp: 116568

Ion Ratio Lower Upper

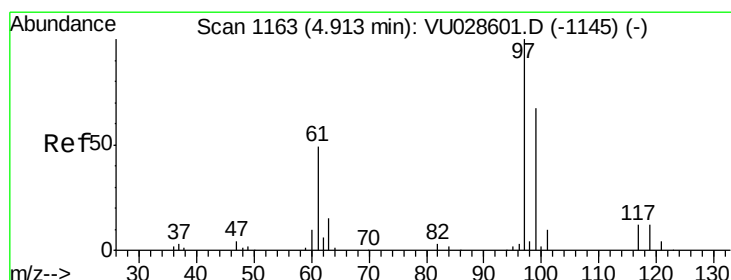
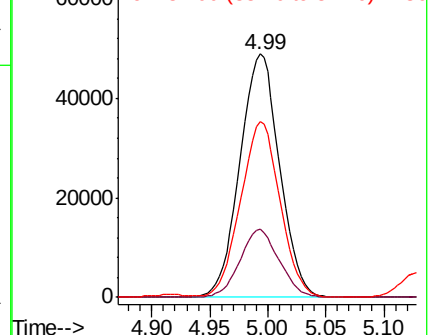
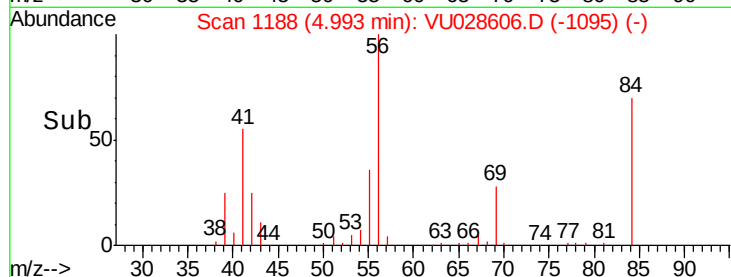
56 100

69 27.5 22.2 33.2

84 71.9 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU028606.D (-1095) (-)



#30

1,1,1-Trichloroethane

Concen: 48.583 ug/L

RT: 4.91 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

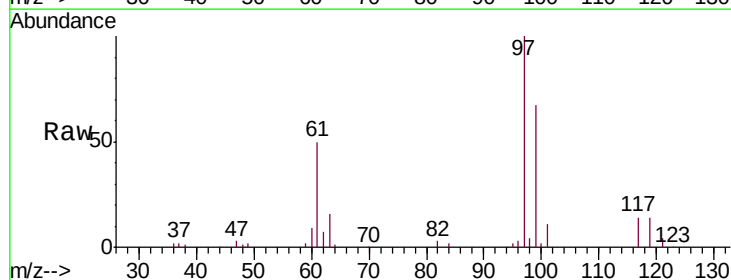
Tgt Ion: 97 Resp: 85884

Ion Ratio Lower Upper

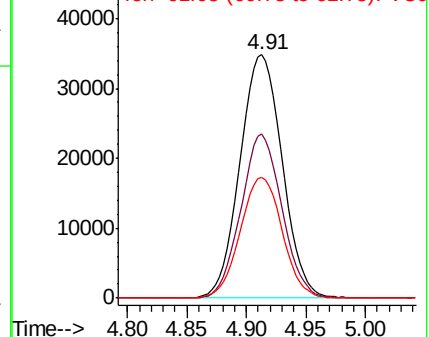
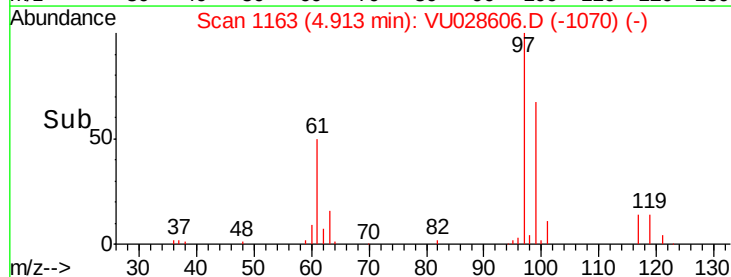
97 100

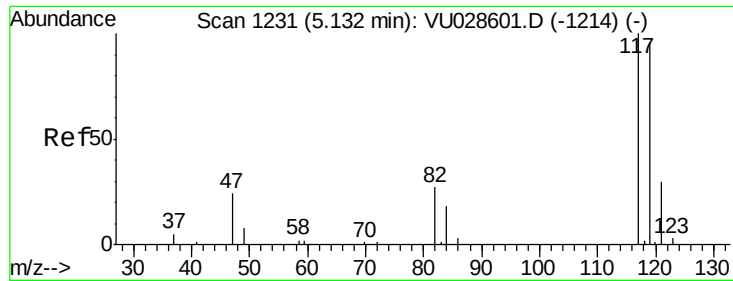
99 65.3 51.4 77.0

61 49.2 38.7 58.1



Abundance Ion 97.00 (96.70 to 97.70): VU028606.D (-1070) (-)





#31

Carbon tetrachloride

Concen: 48.418 ug/L

RT: 5.13 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

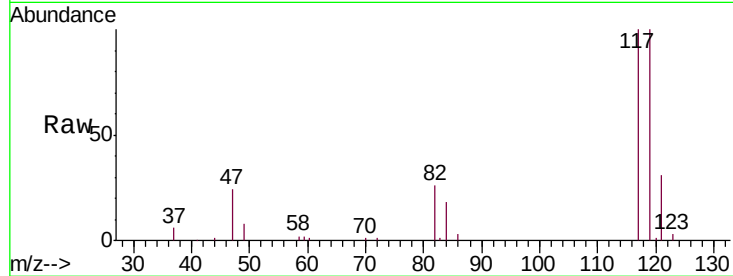
VSTD05044

Tgt Ion:117 Resp: 69246

Ion Ratio Lower Upper

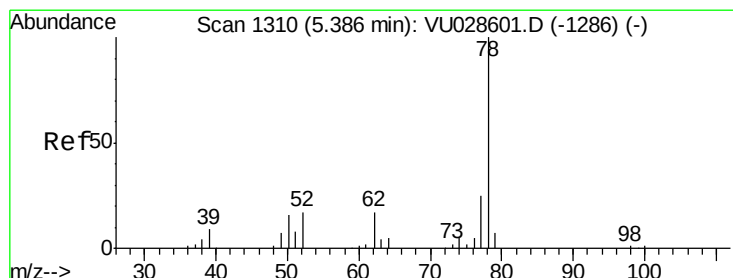
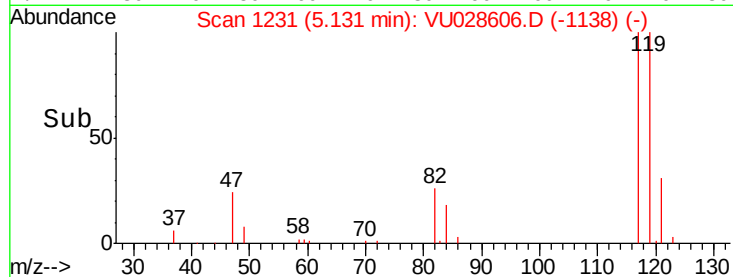
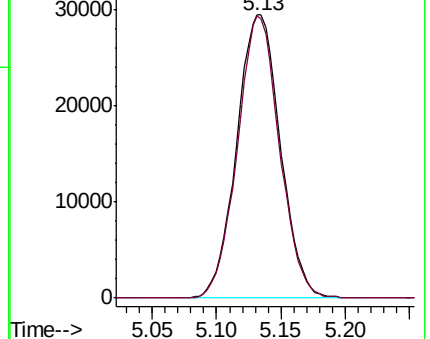
117 100

119 96.0 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.674 ug/L

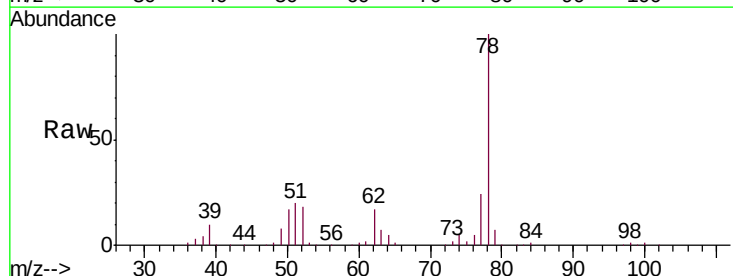
RT: 5.39 min Scan# 1310

Delta R.T. -0.00 min

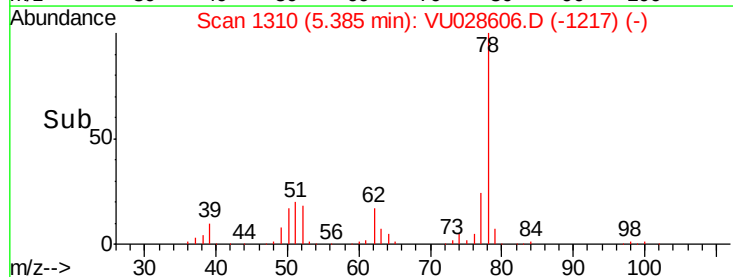
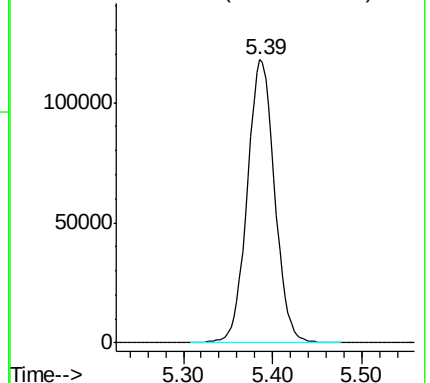
Lab File: VU028606.D

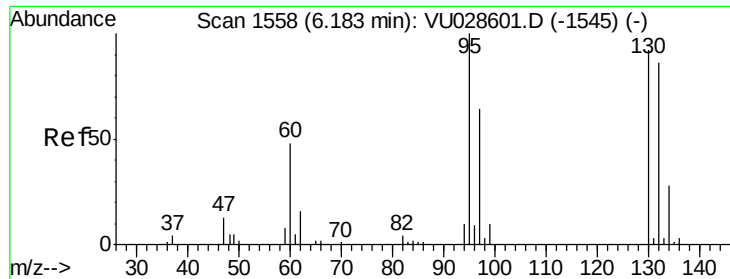
Acq: 11 Dec 2018 14:41

Tgt Ion: 78 Resp: 252303



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.925 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tgt Ion: 95 Resp: 60358

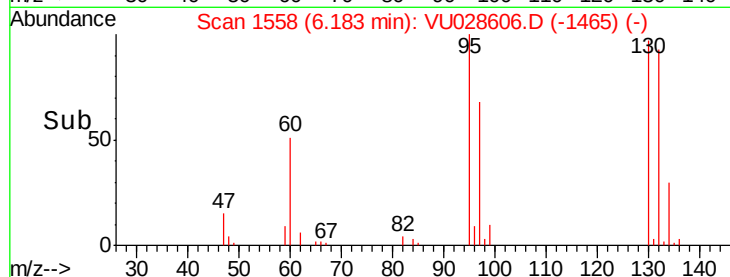
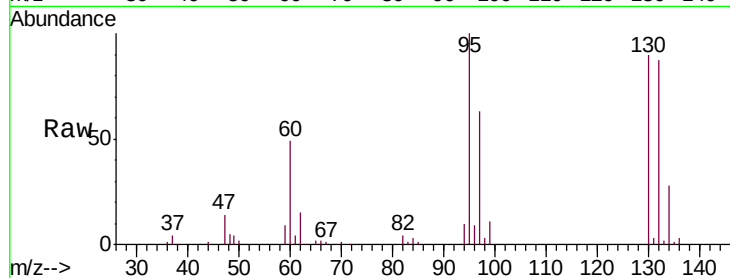
Ion Ratio Lower Upper

95 100

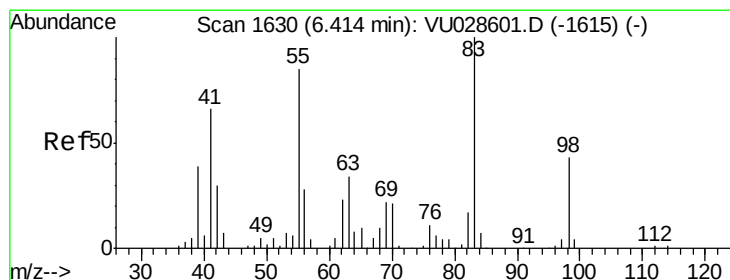
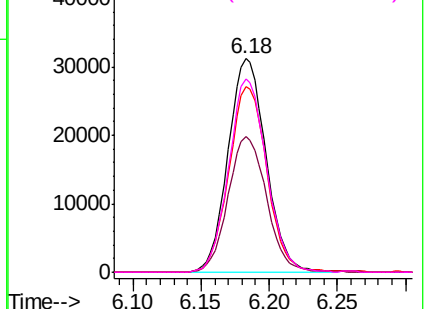
97 63.3 43.5 80.9

132 86.6 59.6 110.6

130 90.4 61.8 114.8



Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 97.00 (96.70 to 97.70): VU0
Ion 132.00 (131.70 to 132.70): V
Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 49.892 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

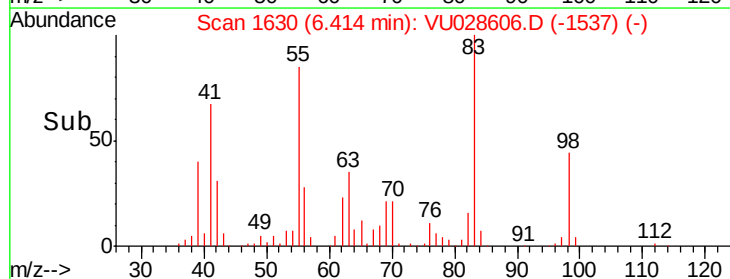
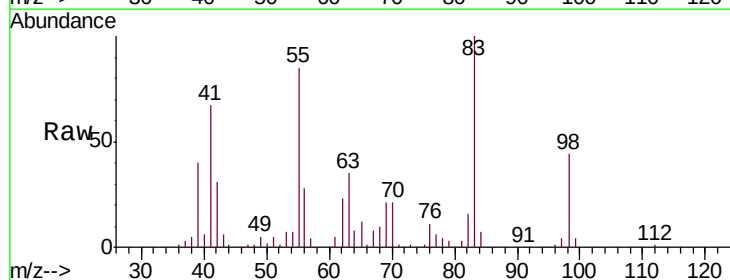
Tgt Ion: 83 Resp: 103771

Ion Ratio Lower Upper

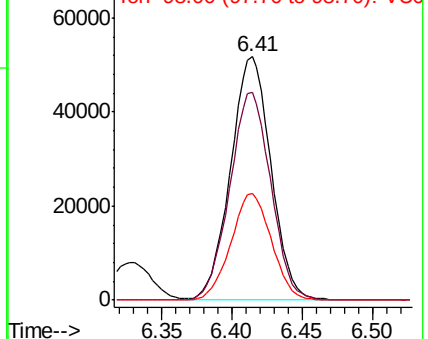
83 100

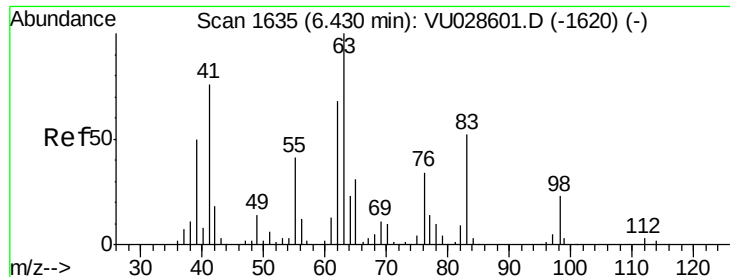
55 86.5 70.1 105.1

98 43.9 34.4 51.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

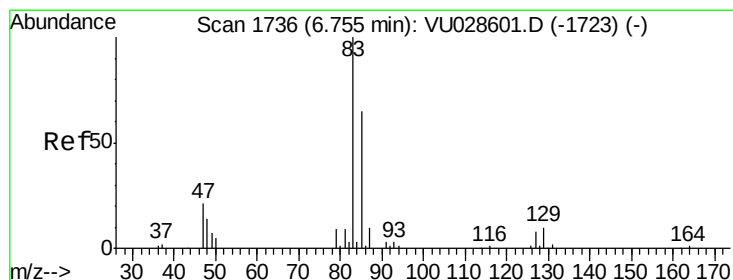
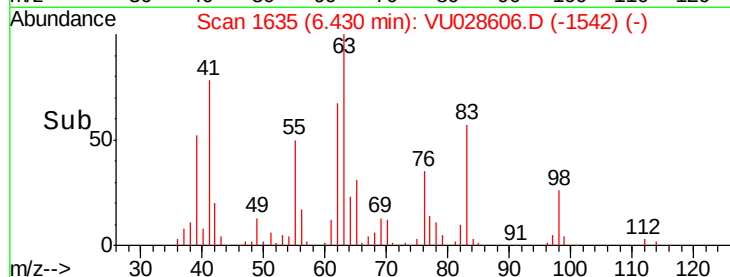
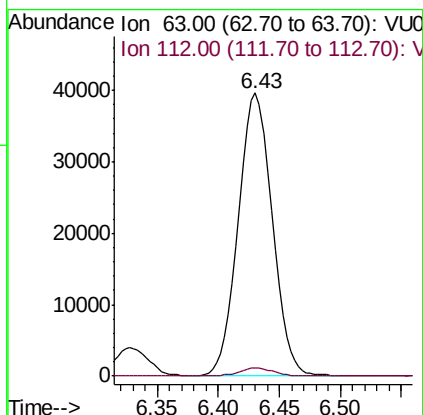
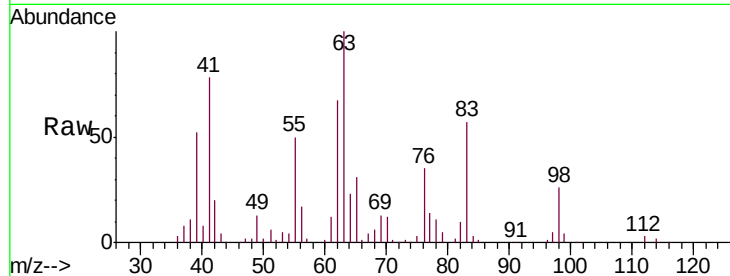




#37
 1,2-Dichloropropane
 Concen: 50.483 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028606.D
 Acq: 11 Dec 2018 14:41

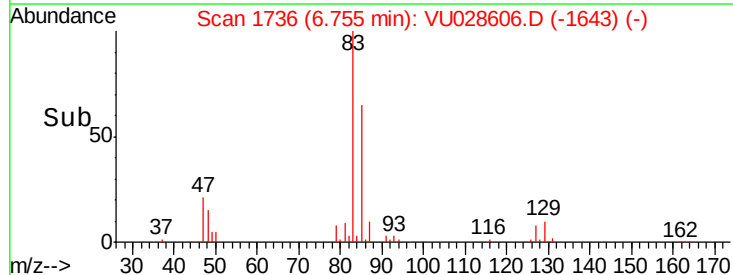
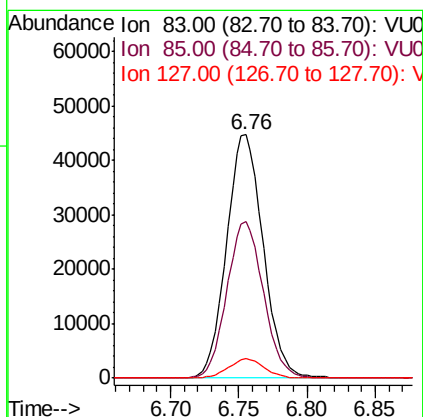
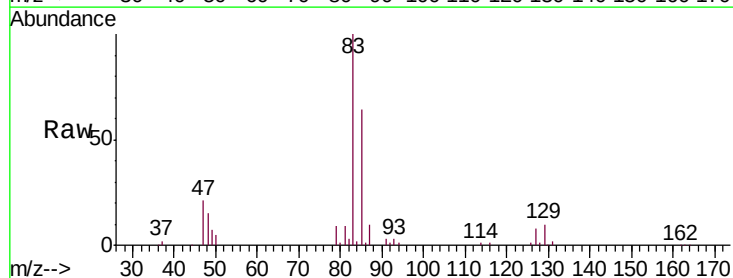
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05044

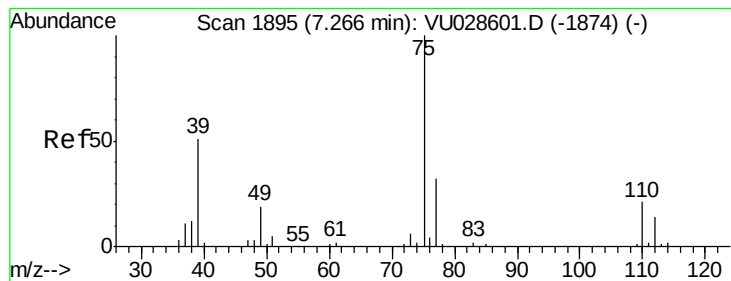
Tgt Ion: 63 Resp: 76651
 Ion Ratio Lower Upper
 63 100
 112 2.9 2.4 3.6



#38
 Bromodichloromethane
 Concen: 49.861 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. -0.00 min
 Lab File: VU028606.D
 Acq: 11 Dec 2018 14:41

Tgt Ion: 83 Resp: 83257
 Ion Ratio Lower Upper
 83 100
 85 64.2 46.5 86.3
 127 7.8 6.3 9.5



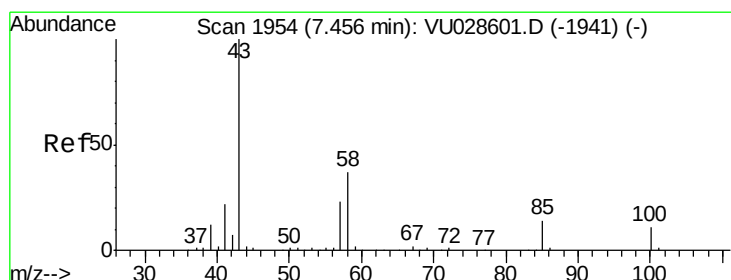
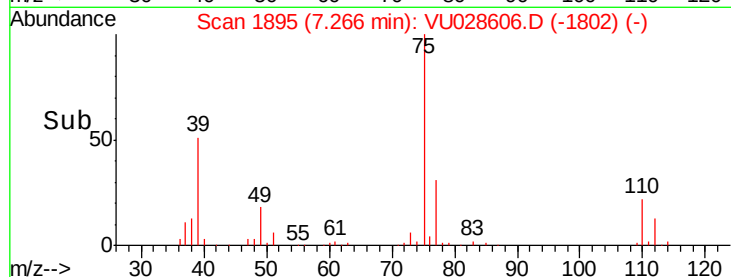
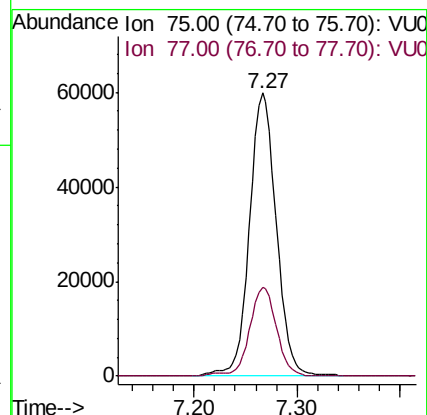
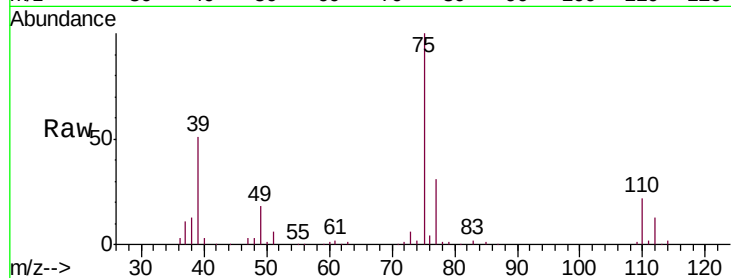


#39

cis-1,3-Dichloropropene
Concen: 50.159 ug/L
RT: 7.27 min Scan# 1895
Delta R.T. -0.00 min
Lab File: VU028606.D
Acq: 11 Dec 2018 14:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

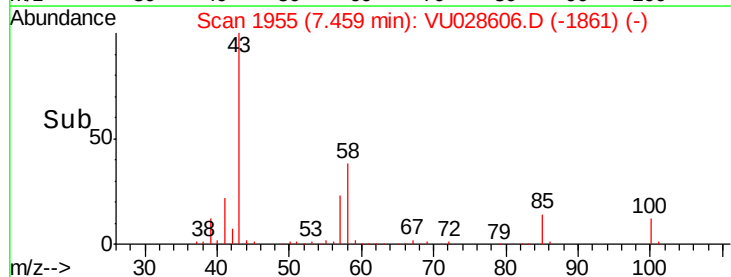
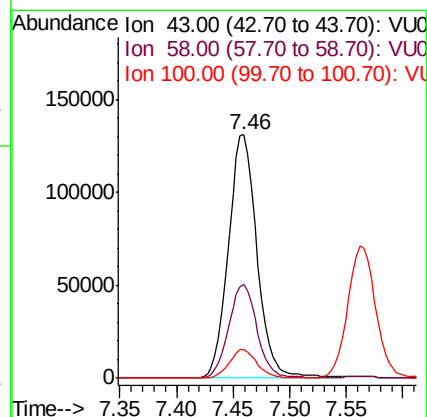
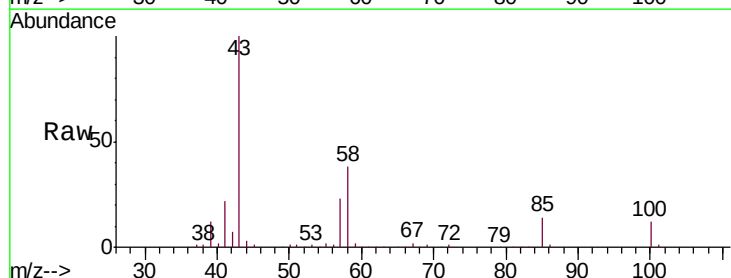
Tgt Ion: 75 Resp: 108090
Ion Ratio Lower Upper
75 100
77 31.4 21.8 40.6

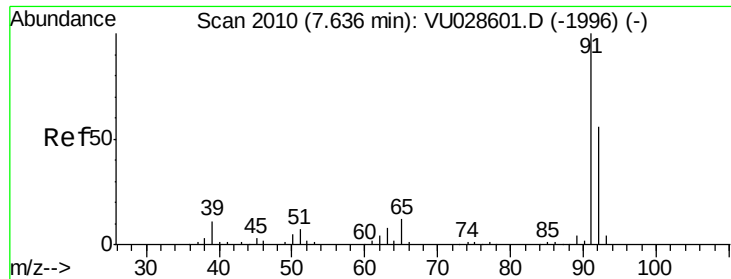


#40

4-Methyl-2-pentanone
Concen: 99.949 ug/L
RT: 7.46 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VU028606.D
Acq: 11 Dec 2018 14:41

Tgt Ion: 43 Resp: 231090
Ion Ratio Lower Upper
43 100
58 38.0 29.6 44.4
100 11.4 9.0 13.4





#42

Toluene

Concen: 49.344 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

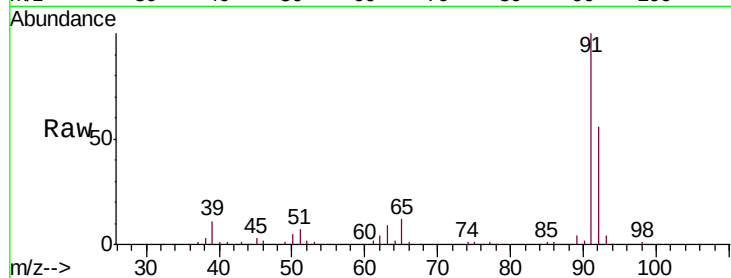
VSTD05044

Tgt Ion: 91 Resp: 254609

Ion Ratio Lower Upper

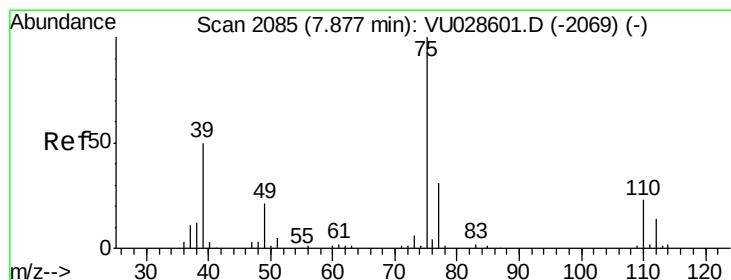
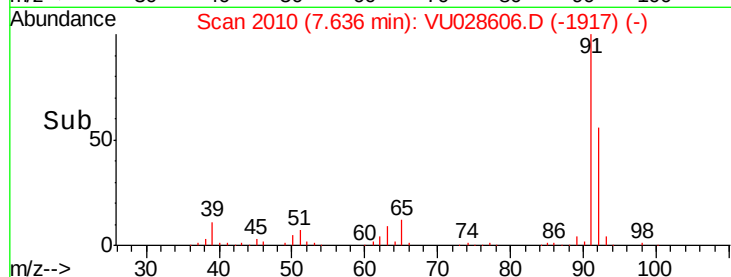
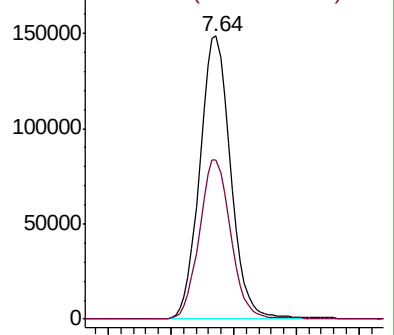
91 100

92 56.2 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 49.055 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028606.D

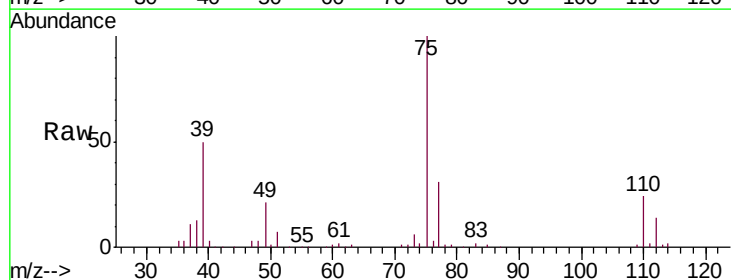
Acq: 11 Dec 2018 14:41

Tgt Ion: 75 Resp: 97503

Ion Ratio Lower Upper

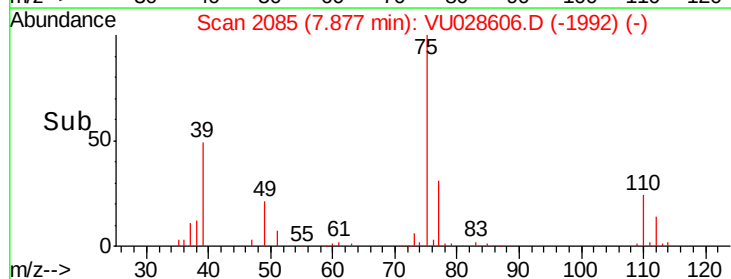
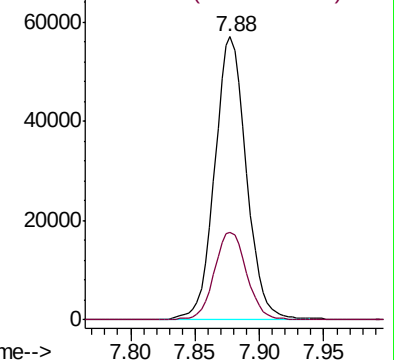
75 100

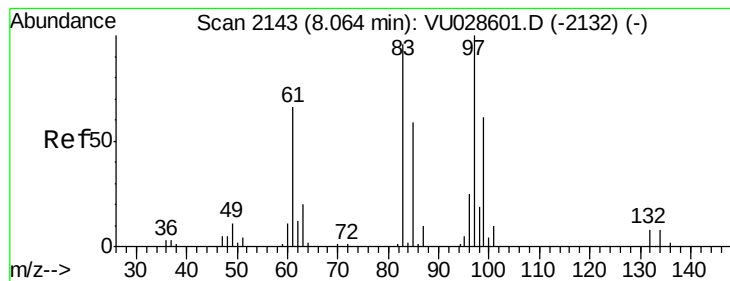
77 31.0 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#45

1,1,2-Trichloroethane

Concen: 51.175 ug/L

RT: 8.06 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tgt Ion: 97 Resp: 60888

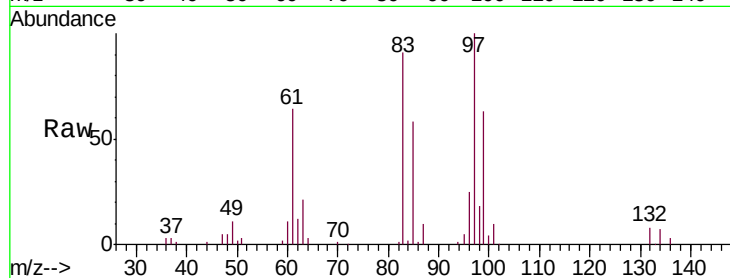
Ion Ratio Lower Upper

97 100

99 62.7 44.2 82.2

83 90.8 66.0 122.6

85 57.8 42.5 78.9

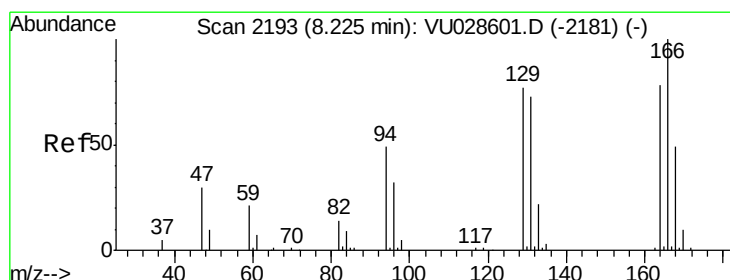
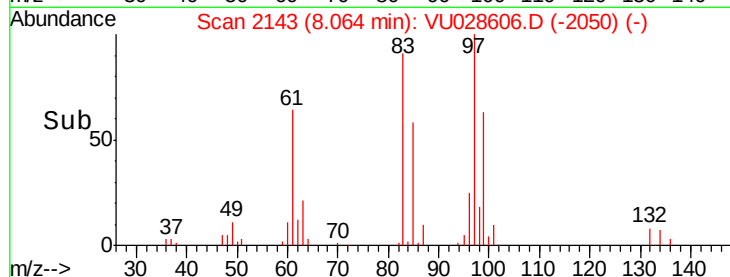
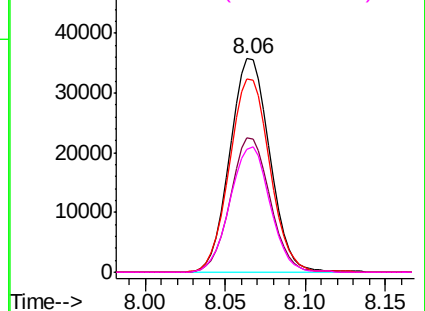


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 48.727 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Tgt Ion: 164 Resp: 42535

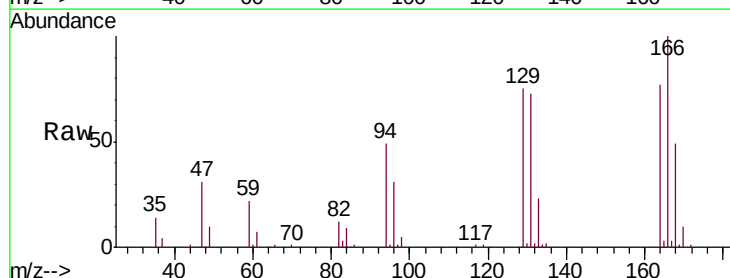
Ion Ratio Lower Upper

164 100

129 97.6 68.2 126.6

131 95.2 66.1 122.7

166 130.7 88.3 163.9

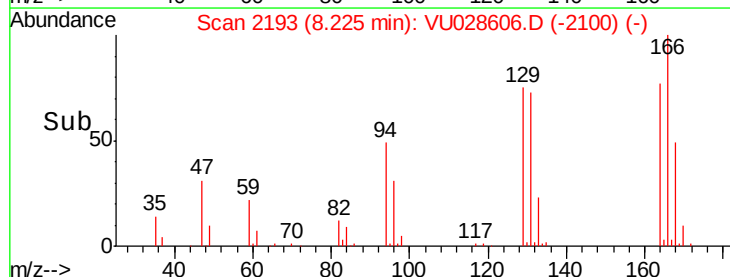
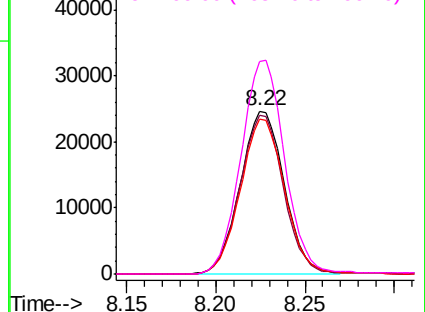


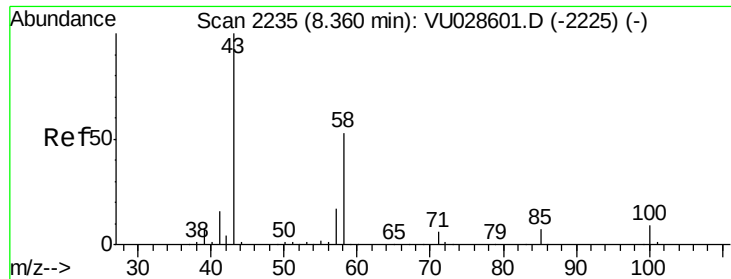
Abundance Ion 164.00 (163.70 to 164.70): V

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

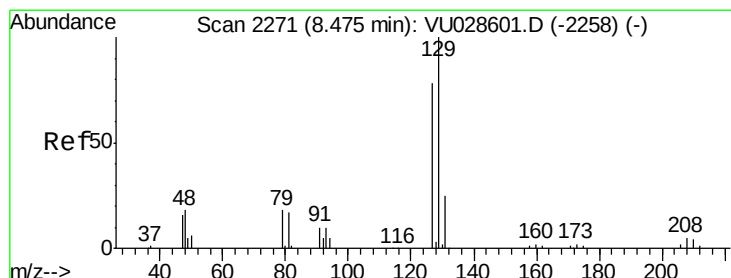
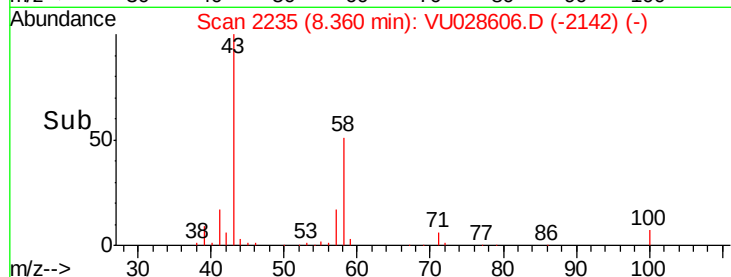
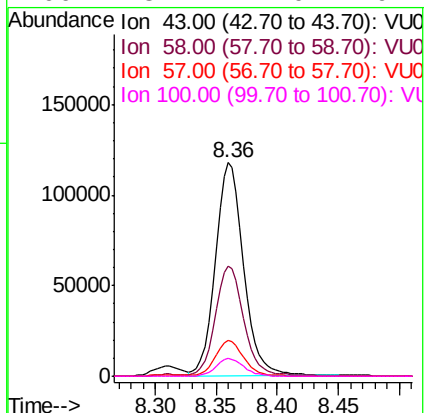
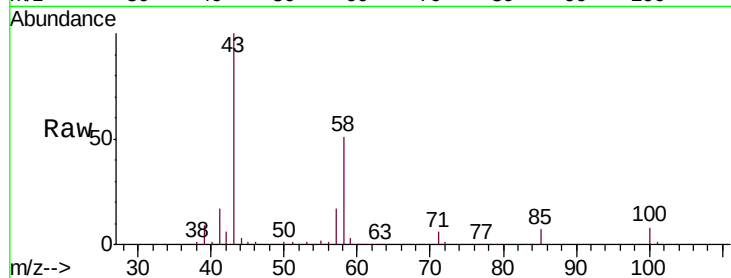




#48
2-Hexanone
Concen: 97.985 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028606.D
Acq: 11 Dec 2018 14:41

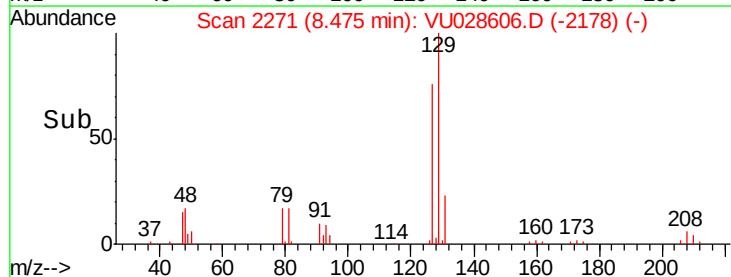
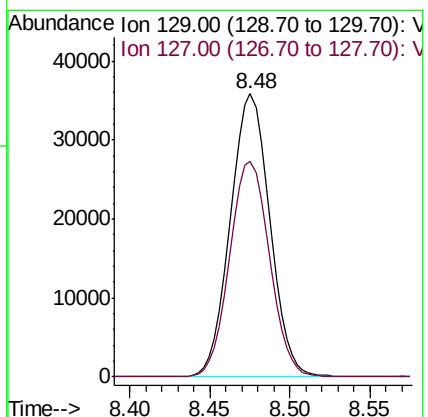
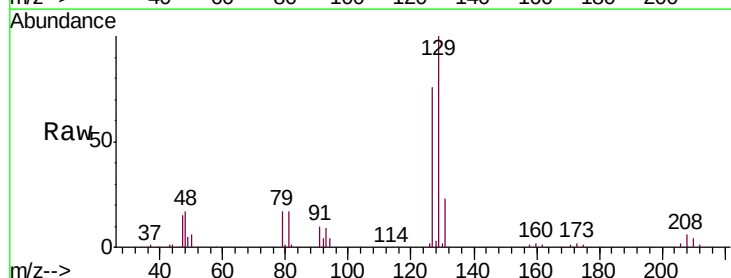
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

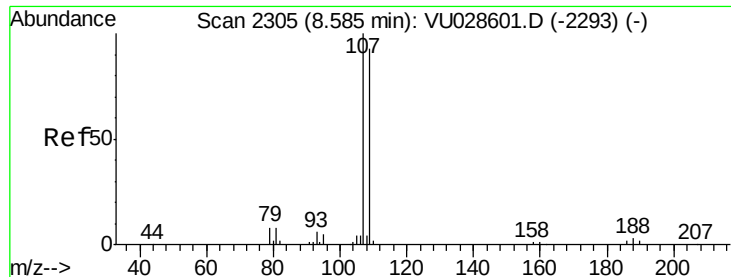
Tgt Ion: 43 Resp: 191697
Ion Ratio Lower Upper
43 100
58 52.5 41.6 62.4
57 17.2 13.8 20.6
100 8.2 7.0 10.4



#49
Dibromochloromethane
Concen: 50.126 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028606.D
Acq: 11 Dec 2018 14:41

Tgt Ion: 129 Resp: 60331
Ion Ratio Lower Upper
129 100
127 76.3 54.0 100.2





#50

1,2-Dibromoethane

Concen: 49.894 ug/L

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

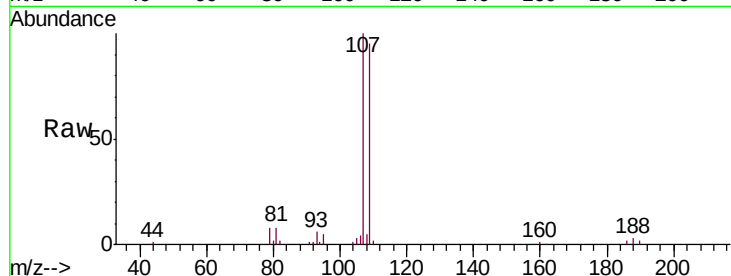
Tgt Ion:107 Resp: 62259

Ion Ratio Lower Upper

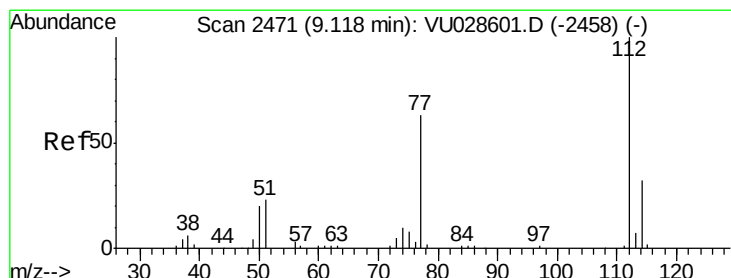
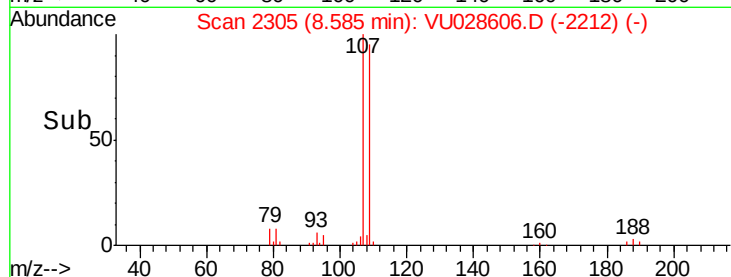
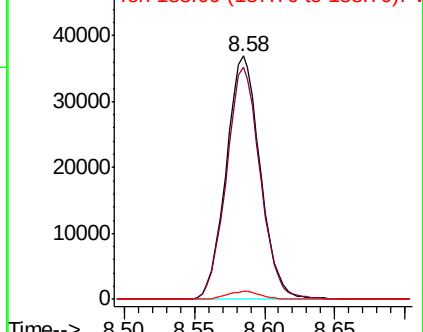
107 100

109 95.4 64.5 119.9

188 3.3 2.6 3.8



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: 49.349 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

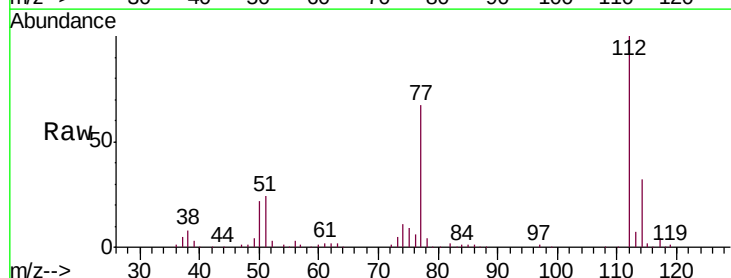
Tgt Ion:112 Resp: 153398

Ion Ratio Lower Upper

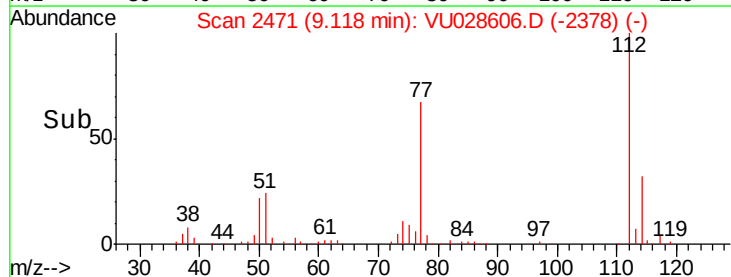
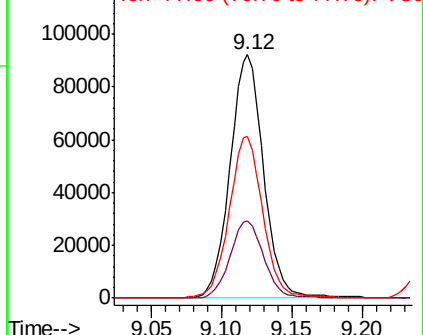
112 100

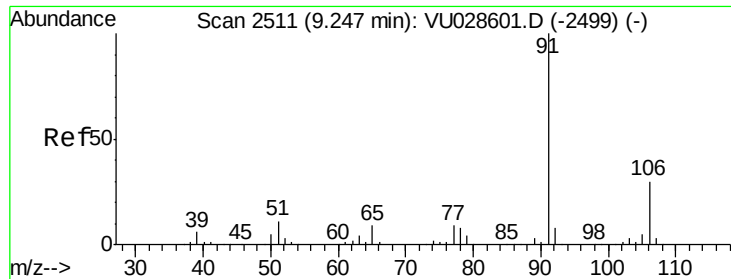
114 31.6 23.0 42.6

77 66.5 53.9 80.9



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): V





#52

Ethylbenzene

Concen: 49.383 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

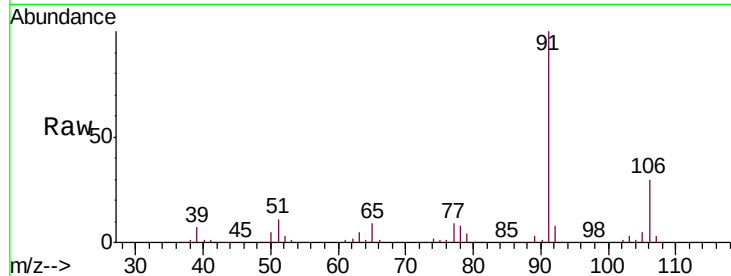
VSTD05044

Tgt Ion: 91 Resp: 282090

Ion Ratio Lower Upper

91 100

106 29.9 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VU028601.D (-2499) (-)

Ion 106.00 (105.70 to 106.70): VU028601.D (-2499) (-)

9.25

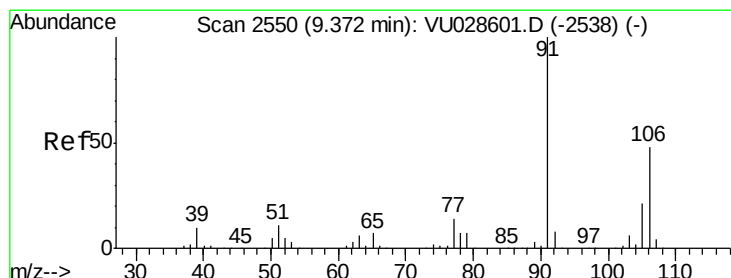
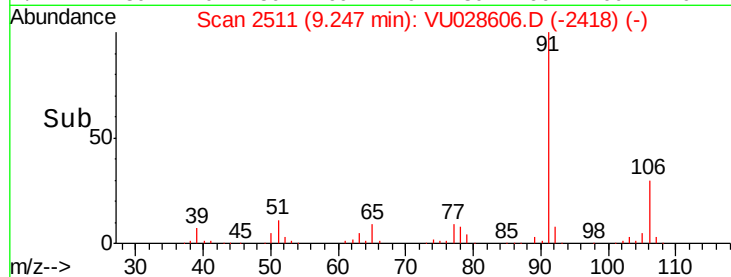
150000

100000

50000

0

Time--> 9.15 9.20 9.25 9.30 9.35



#53

m,p-Xylene

Concen: 48.520 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028606.D

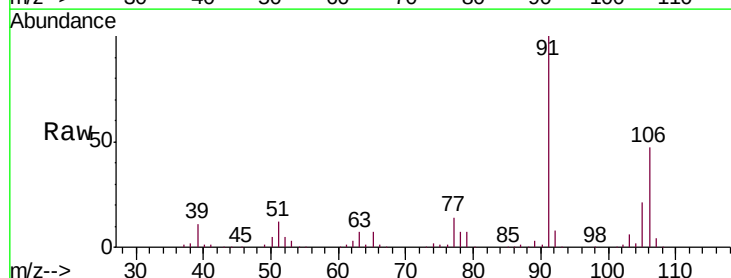
Acq: 11 Dec 2018 14:41

Tgt Ion: 106 Resp: 100334

Ion Ratio Lower Upper

106 100

91 211.9 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU028601.D (-2538) (-)

Ion 91.00 (90.70 to 91.70): VU028601.D (-2538) (-)

9.37

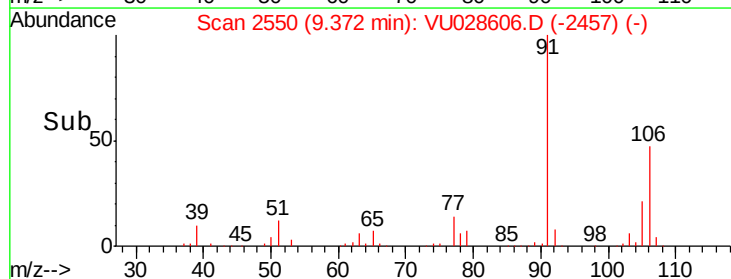
150000

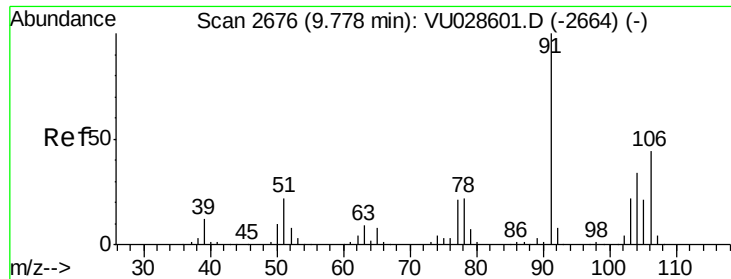
100000

50000

0

Time--> 9.30 9.35 9.40 9.45





#54

o-xylene

Concen: 50.310 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

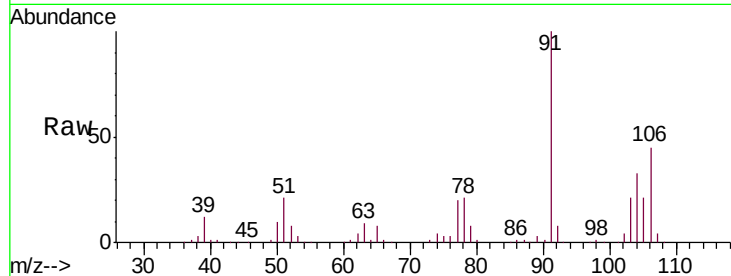
VSTD05044

Tgt Ion:106 Resp: 102157

Ion Ratio Lower Upper

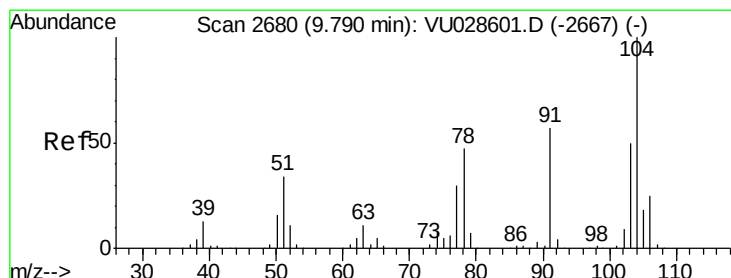
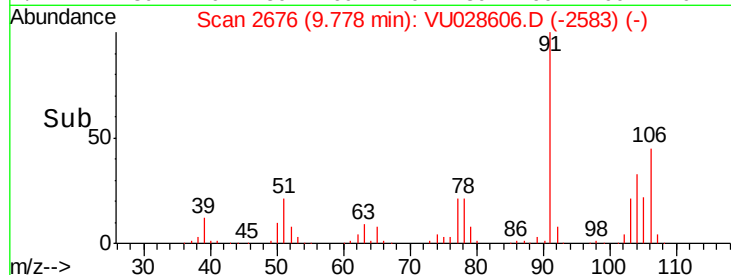
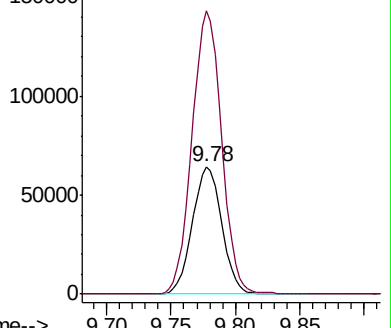
106 100

91 221.8 151.4 281.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.400 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028606.D

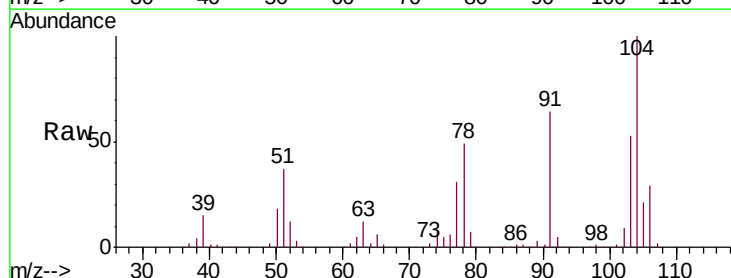
Acq: 11 Dec 2018 14:41

Tgt Ion:104 Resp: 173765

Ion Ratio Lower Upper

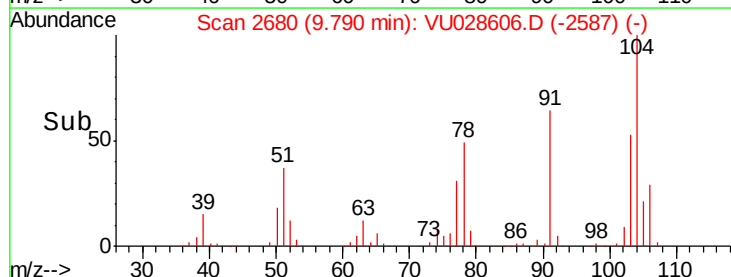
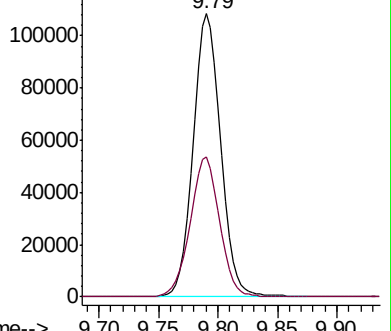
104 100

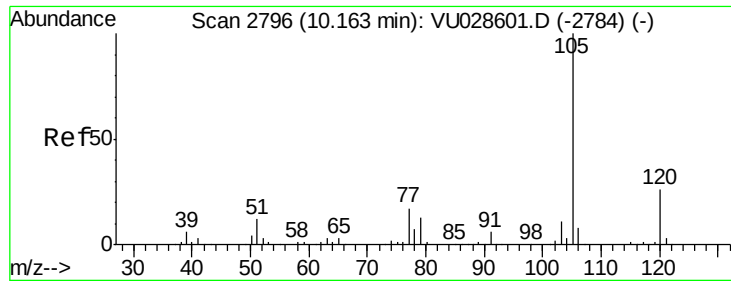
78 49.3 34.1 63.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.782 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

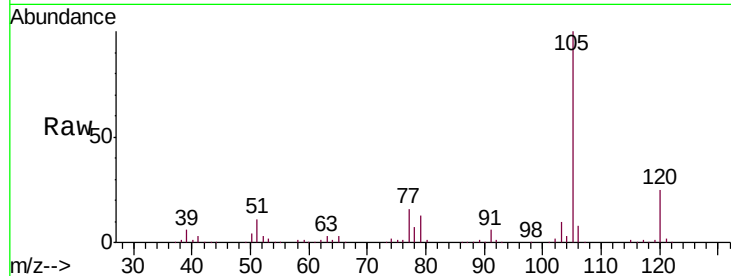
Tgt Ion: 105 Resp: 268786

Ion Ratio Lower Upper

105 100

120 25.4 20.2 30.2

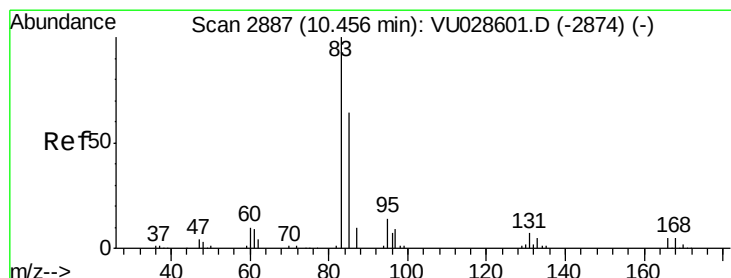
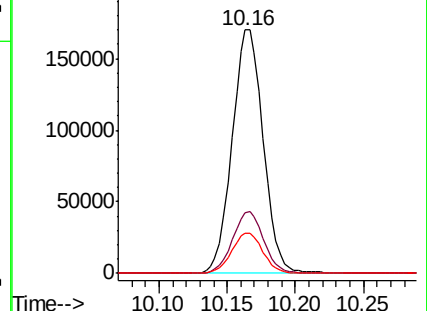
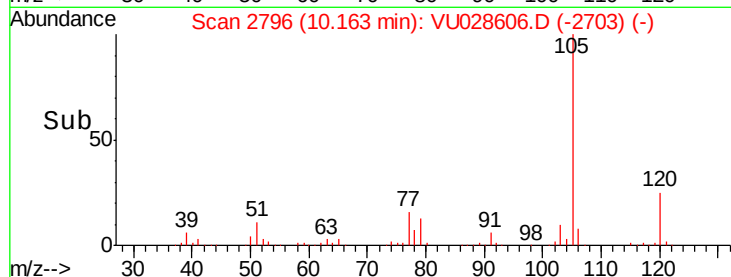
77 16.5 13.1 19.7



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: 50.197 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

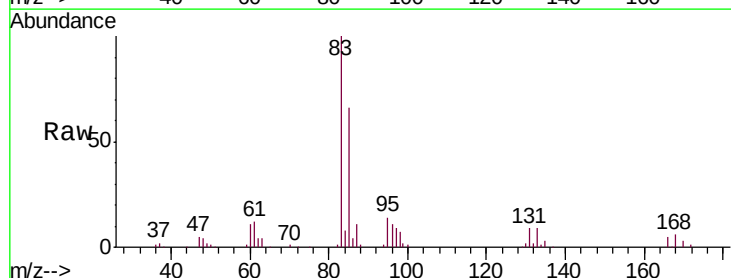
Tgt Ion: 83 Resp: 109699

Ion Ratio Lower Upper

83 100

85 66.0 45.1 83.7

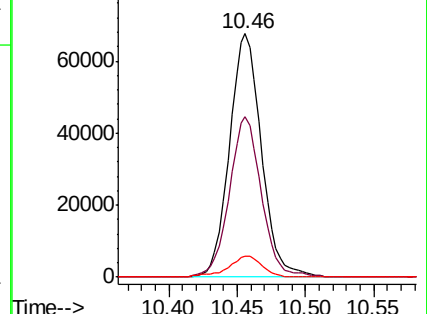
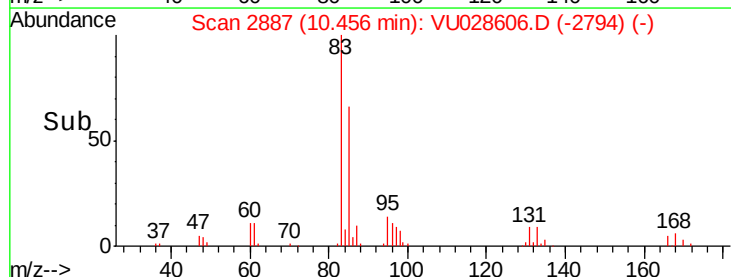
131 8.6 6.4 9.6

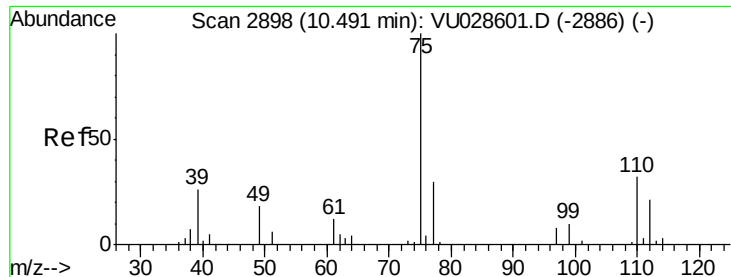


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.134 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

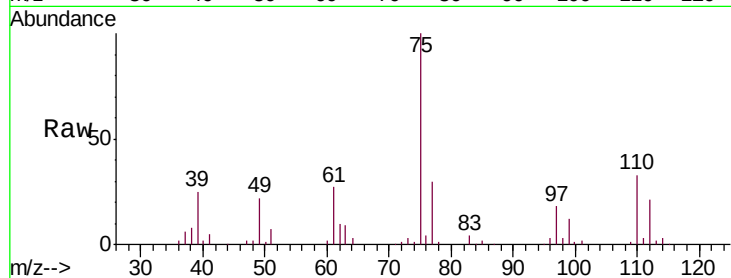
VSTD05044

Tgt Ion: 75 Resp: 86009

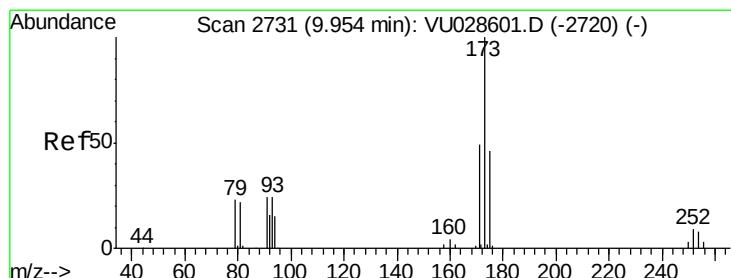
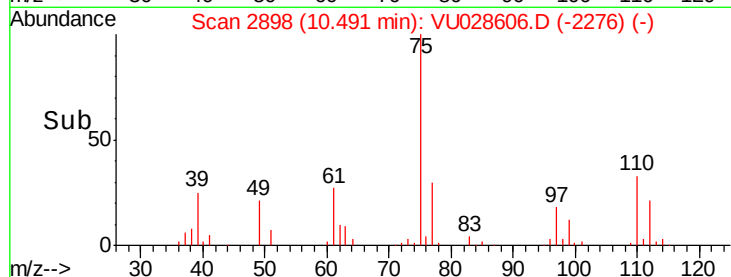
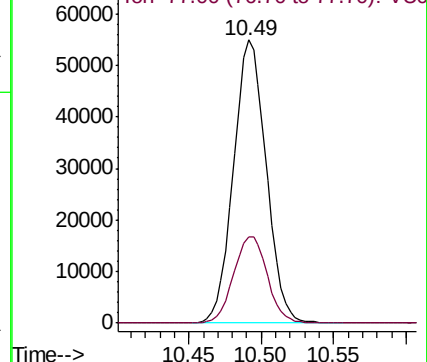
Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU028606.D (-2276) (-)



#61

Bromoform

Concen: 49.833 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

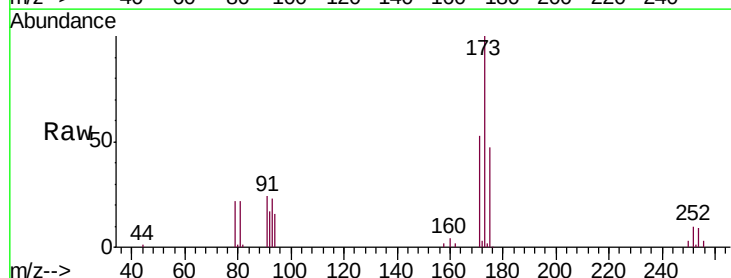
Tgt Ion: 173 Resp: 44022

Ion Ratio Lower Upper

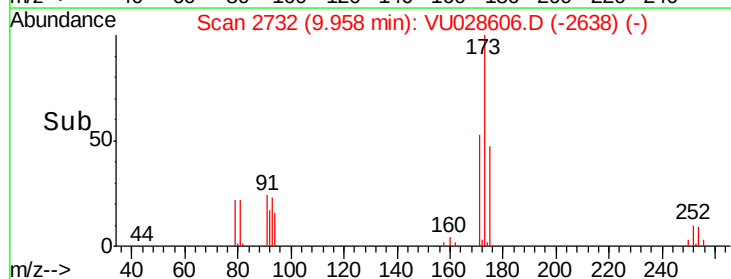
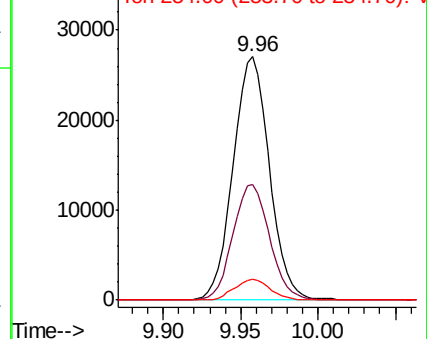
173 100

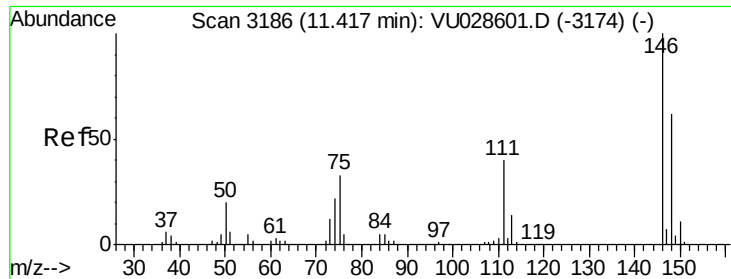
175 47.8 38.7 58.1

254 8.3 7.1 10.7



Abundance Ion 173.00 (172.70 to 173.70): VU028606.D (-2638) (-)





#62

1,3-Dichlorobenzene

Concen: 48.088 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

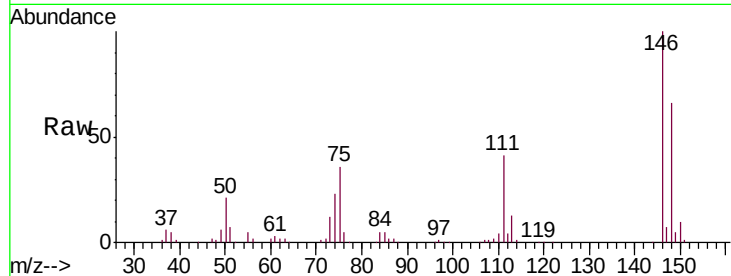
Tgt Ion:146 Resp: 113298

Ion Ratio Lower Upper

146 100

111 40.8 28.5 52.9

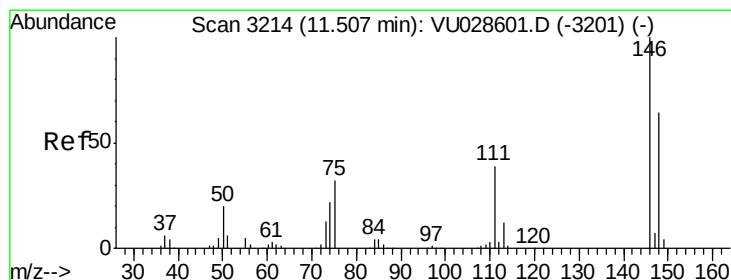
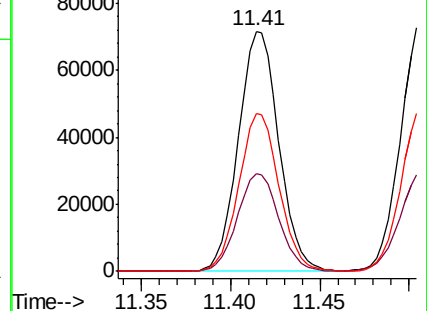
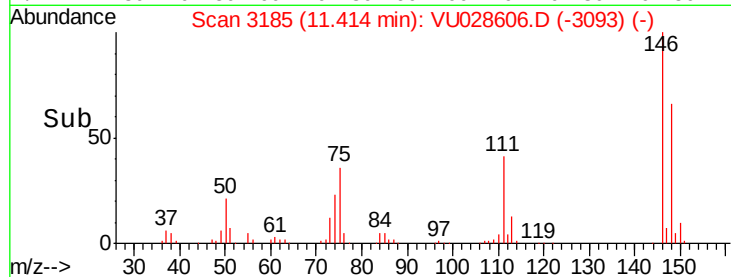
148 65.8 43.9 81.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.847 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

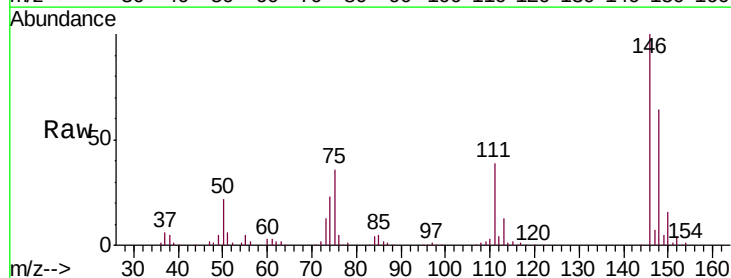
Tgt Ion:146 Resp: 114078

Ion Ratio Lower Upper

146 100

111 39.1 27.6 51.4

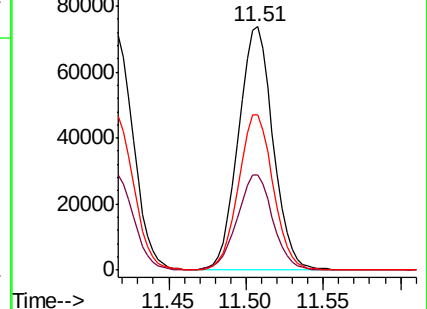
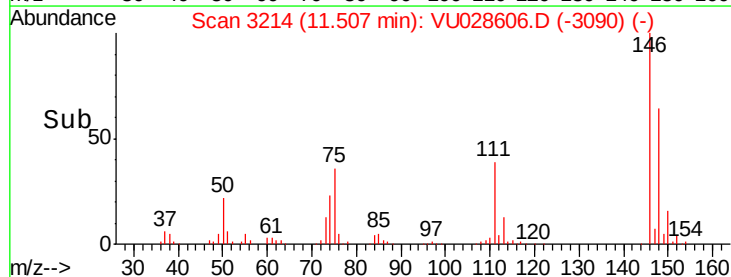
148 63.5 45.1 83.9

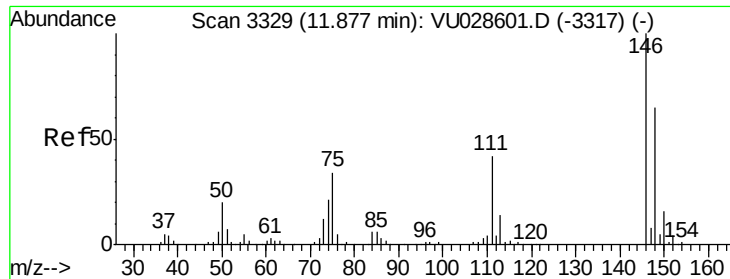


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 49.751 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

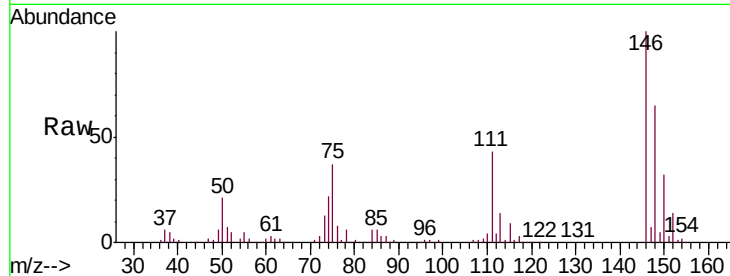
Tgt Ion: 146 Resp: 117116

Ion Ratio Lower Upper

146 100

111 43.2 33.4 50.2

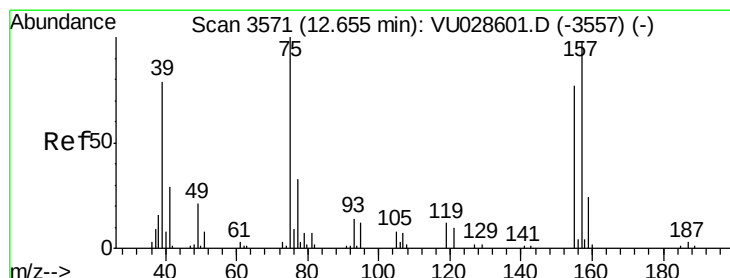
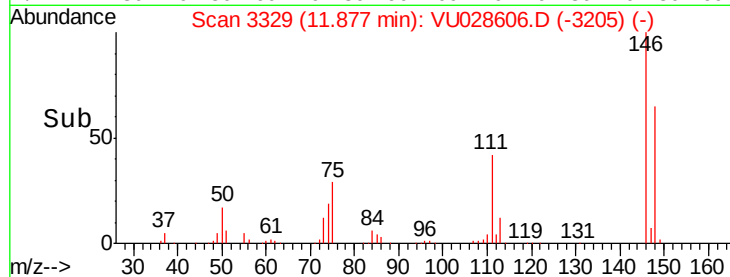
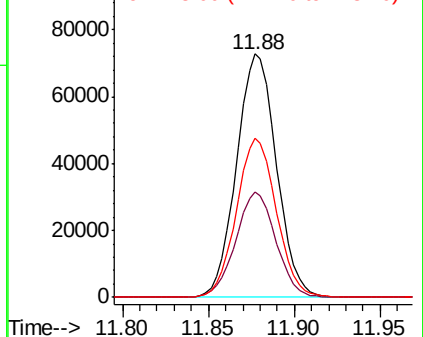
148 65.2 50.2 75.2



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: 49.099 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

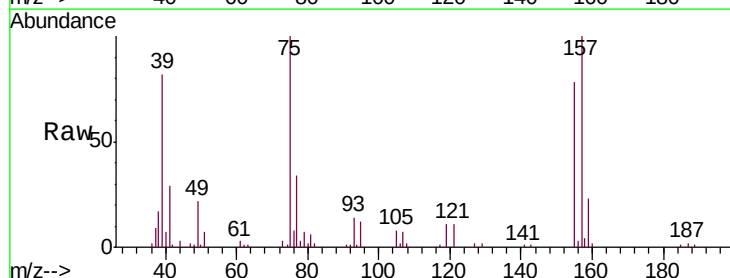
Tgt Ion: 75 Resp: 22757

Ion Ratio Lower Upper

75 100

155 78.5 59.9 89.9

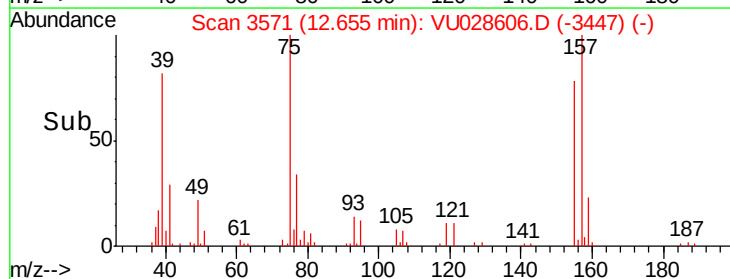
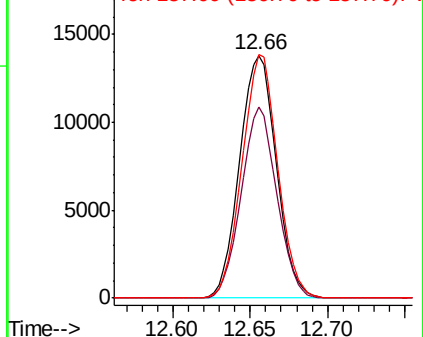
157 100.3 75.8 113.8

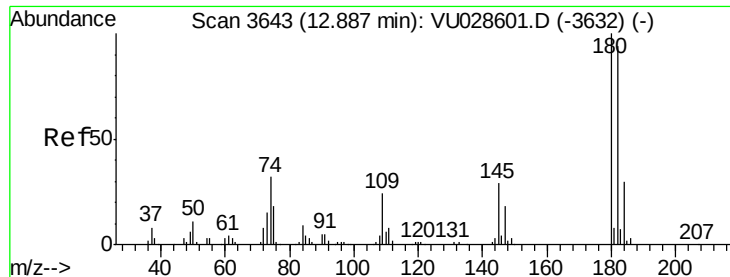


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

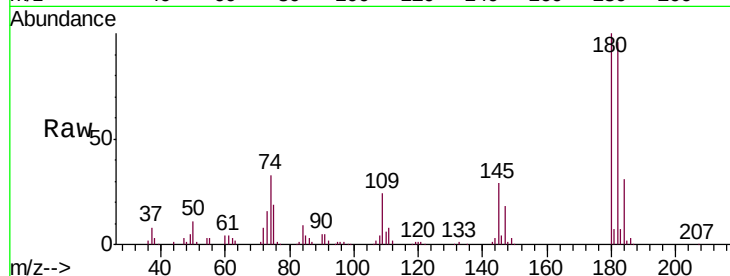




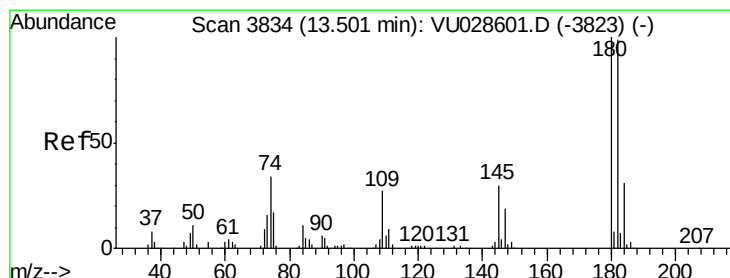
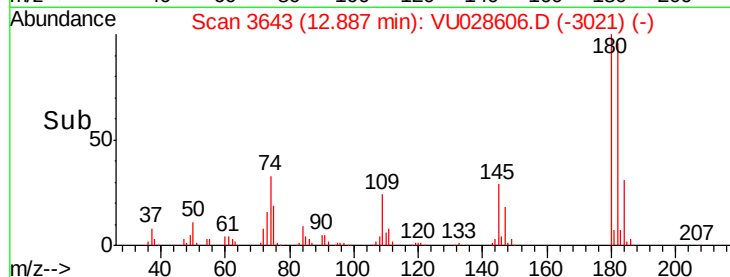
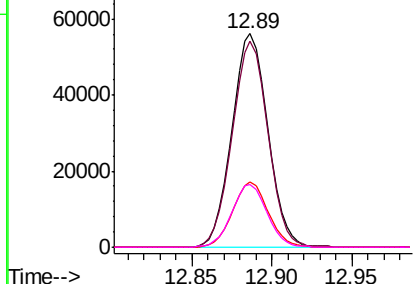
#67
 1,3,5-Trichlorobenzene
 Concen: 50.163 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU028606.D
 Acq: 11 Dec 2018 14:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion:180 Resp: 85830
 Ion Ratio Lower Upper
 180 100
 182 95.8 75.0 112.6
 184 30.1 23.9 35.9
 145 28.8 23.8 35.8

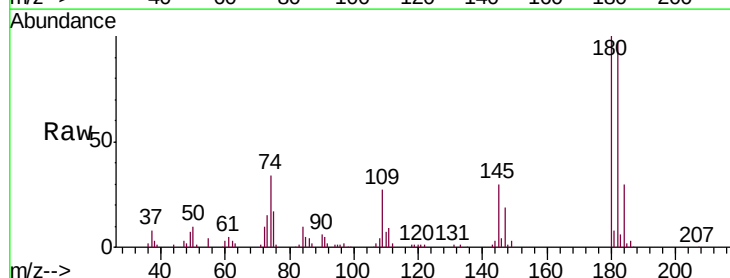


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

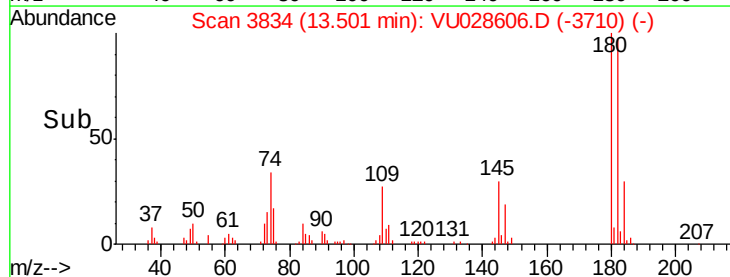
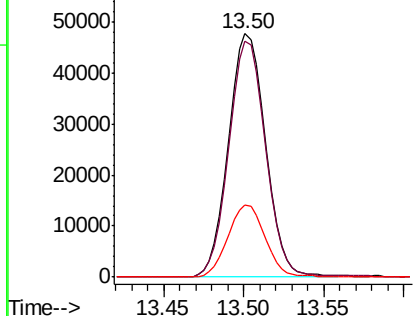


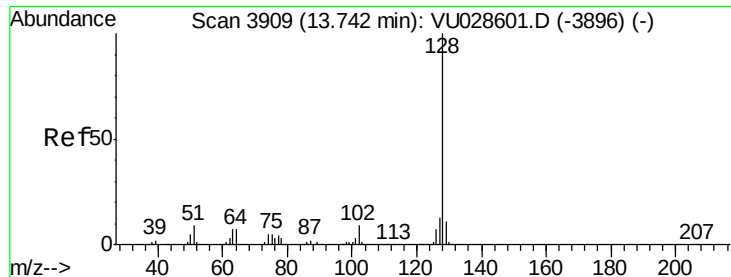
#68
 1,2,4-trichlorobenzene
 Concen: 46.912 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028606.D
 Acq: 11 Dec 2018 14:41

Tgt Ion:180 Resp: 75289
 Ion Ratio Lower Upper
 180 100
 182 96.0 74.8 112.2
 145 29.7 23.0 34.6



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





#69

Naphthalene

Concen: 48.291 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

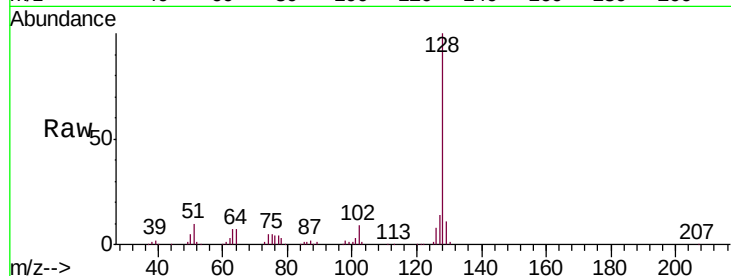
Tgt Ion:128 Resp: 257232

Ion Ratio Lower Upper

128 100

127 12.9 10.7 16.1

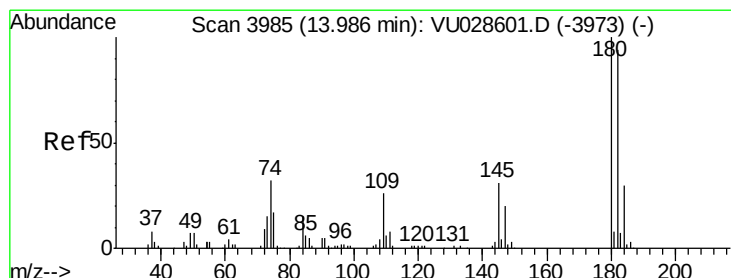
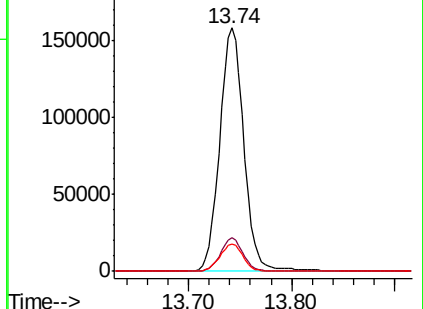
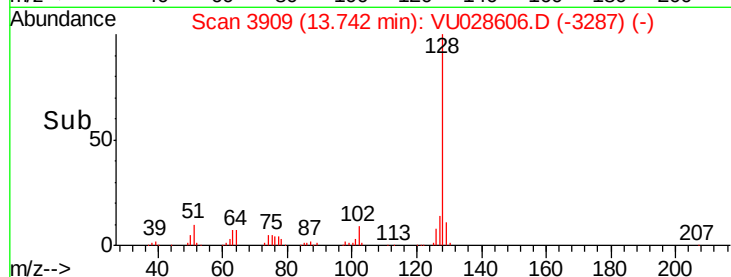
129 10.8 8.6 13.0



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: 47.963 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU028606.D

Acq: 11 Dec 2018 14:41

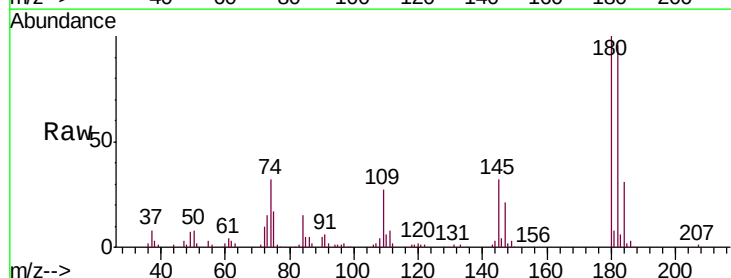
Tgt Ion:180 Resp: 76891

Ion Ratio Lower Upper

180 100

182 95.6 75.2 112.8

145 31.4 25.4 38.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

