

Data File : VU029280.D
Acq On : 25 Jan 2019 10:54
Operator : JC/SP
Sample : VSTD00544
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00544

Quant Time: Jan 28 01:33:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR012519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jan 28 01:29:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	68173	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	71663	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	37923	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	30864	4.78	ug/L	0.00
7) Chloroethane-d5	1.68	69	24187	5.08	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	56126	4.90	ug/L	0.00
20) 2-Butanone-d5	4.19	46	68172	51.21	ug/L	0.00
24) Chloroform-d	4.65	84	53152	5.01	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	28651	4.89	ug/L	0.00
32) Benzene-d6	5.34	84	100134	4.93	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	29551	4.84	ug/L	0.00
41) Toluene-d8	7.56	98	96052	5.05	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	14145	5.20	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	63914	51.07	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	26843	4.96	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	36761	4.90	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	46643	4.944 ug/L	100
3) Chloromethane	1.32	50	39400	4.762 ug/L	100
5) Vinyl chloride	1.40	62	39264	4.746 ug/L	100
6) Bromomethane	1.63	94	21281	4.777 ug/L	100
8) Chloroethane	1.70	64	21651	4.684 ug/L	100
9) Trichlorofluoromethane	1.88	101	53767	4.887 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	27207	4.864 ug/L	100
12) 1,1-Dichloroethene	2.28	96	25110	4.870 ug/L	100
13) Acetone	2.33	43	46213	46.369 ug/L	100
14) Carbon disulfide	2.48	76	84514	4.733 ug/L	100
15) Methyl Acetate	2.62	43	11262	4.715 ug/L	100
16) Methylene chloride	2.70	84	26772	4.424 ug/L	100
17) Methyl tert-butyl Ether	3.00	73	65675	4.907 ug/L	100
18) trans-1,2-Dichloroethene	2.98	96	26482	4.733 ug/L	100
19) 1,1-Dichloroethane	3.44	63	47948	4.803 ug/L	100
21) 2-Butanone	4.28	43	70960	49.190 ug/L	100
22) cis-1,2-Dichloroethene	4.22	96	28215	5.016 ug/L	100
23) Bromochloromethane	4.55	128	12694	4.967 ug/L	100
25) Chloroform	4.67	83	51745	4.950 ug/L	100
27) 1,2-Dichloroethane	5.40	62	36055	5.036 ug/L	100
29) 1,1,1-Trichloroethane	4.91	97	46468	4.783 ug/L	100
30) Cyclohexane	4.99	56	41227	4.719 ug/L	100
31) Carbon tetrachloride	5.13	117	40447	4.880 ug/L	100
33) Benzene	5.39	78	109036	4.878 ug/L	100
34) Trichloroethene	6.18	95	28263	4.776 ug/L	100
35) Methylcyclohexane	6.41	83	44148	4.665 ug/L	100
37) 1,2-Dichloropropane	6.43	63	27890	4.728 ug/L	100
38) Bromodichloromethane	6.76	83	36708	4.709 ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	41115	4.849 ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	173884	48.848 ug/L	100

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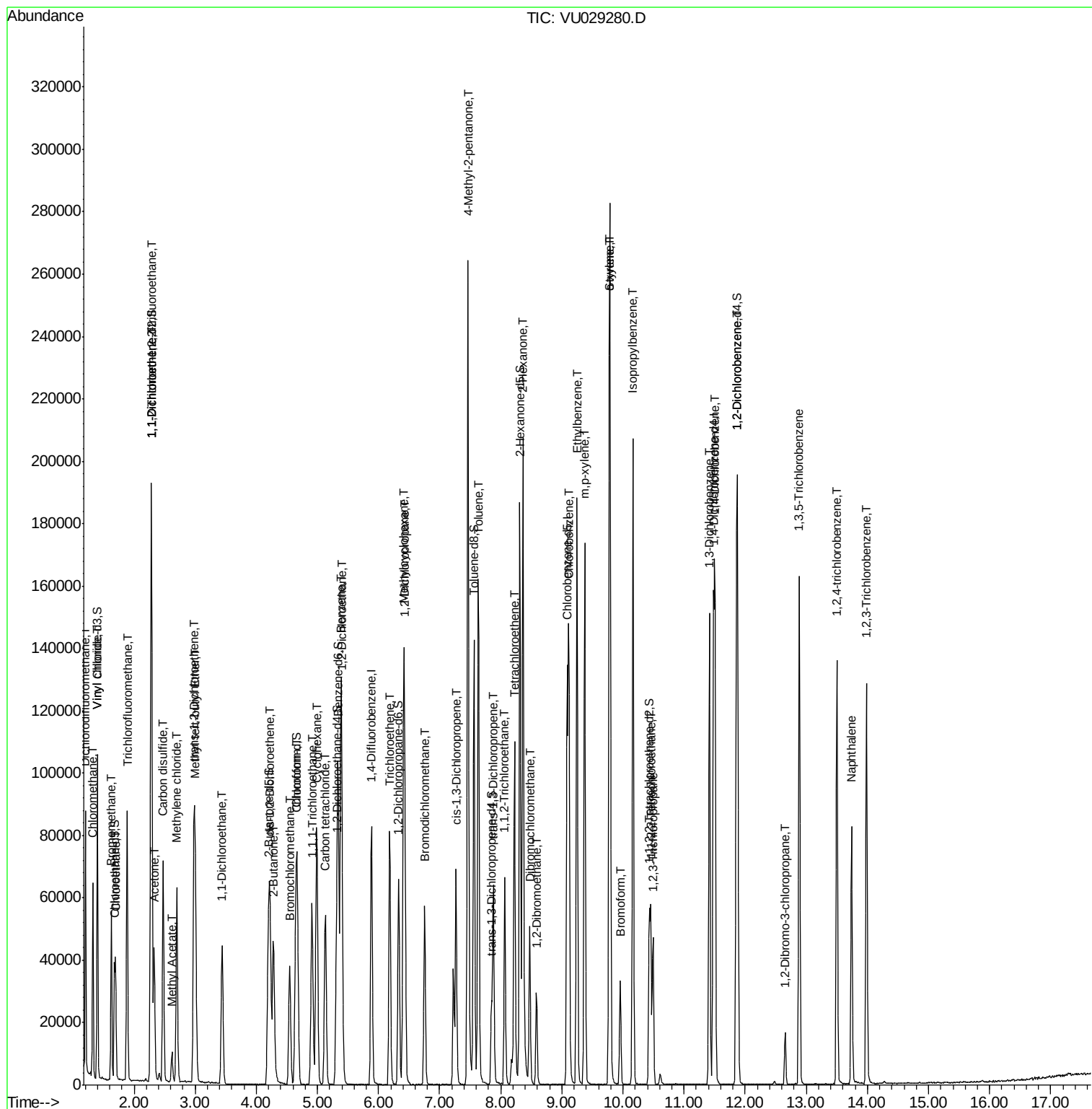
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	117798	4.884	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	37021	5.021	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	20356	4.801	ug/L	100
47) Tetrachloroethene	8.22	164	25051	4.822	ug/L	100
48) 2-Hexanone	8.36	43	129250	49.820	ug/L	100
49) Dibromochloromethane	8.48	129	25246	4.796	ug/L	100
50) 1,2-Dibromoethane	8.58	107	19351	4.717	ug/L	100
51) Chlorobenzene	9.12	112	75423	4.757	ug/L	100
52) Ethylbenzene	9.25	91	128065	4.839	ug/L	100
53) m,p-xylene	9.37	106	49156	4.889	ug/L	100
54) o-xylene	9.78	106	45753	4.783	ug/L	100
55) Styrene	9.79	104	82819	4.976	ug/L	100
56) Isopropylbenzene	10.16	105	125225	4.859	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	25863	4.680	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	19006	4.677	ug/L	100
61) Bromoform	9.95	173	15262	4.830	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	61413	4.833	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	64366	4.750	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	60335	4.838	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	4446	5.010	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	51739	4.831	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	42633	4.755	ug/L	100
69) Naphthalene	13.74	128	67993	4.788	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	41237	4.939	ug/L	100

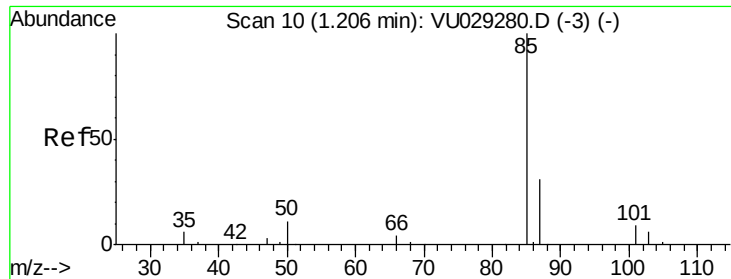
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.944 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

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Instrument :

MSVOA_U

ClientSampleId :

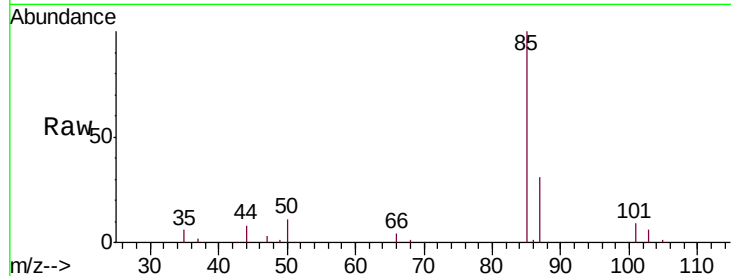
VSTD00544

Tgt Ion: 85 Resp: 46643

Ion Ratio Lower Upper

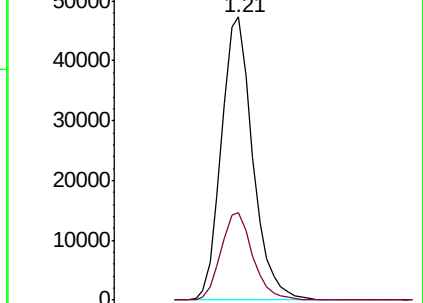
85 100

87 31.4 25.1 37.7

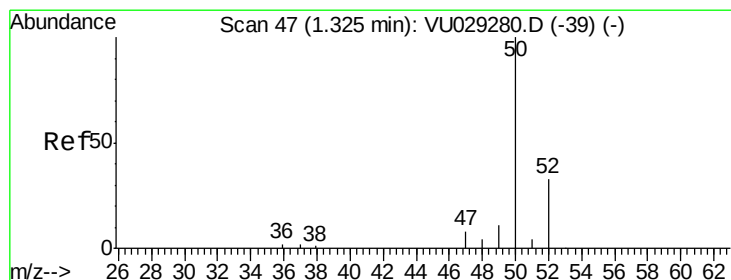
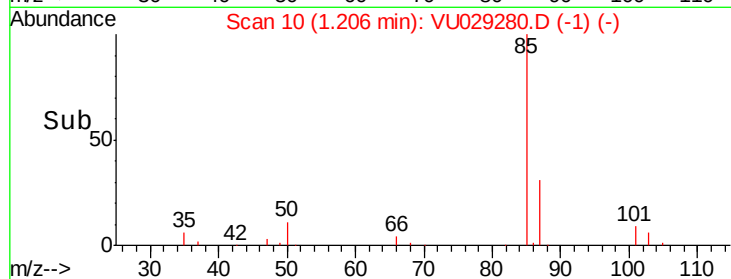


Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 4.762 ug/L

RT: 1.32 min Scan# 47

Delta R.T. 0.00 min

Lab File: VU029280.D

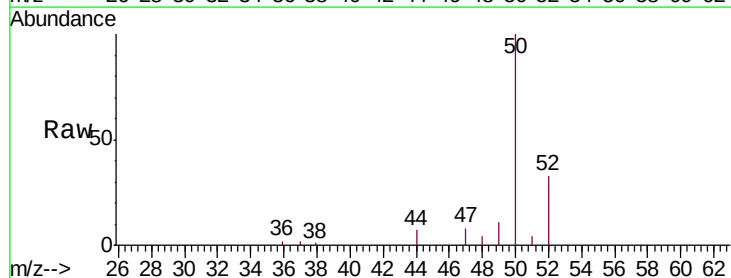
Acq: 25 Jan 2019 10:54

Tgt Ion: 50 Resp: 39400

Ion Ratio Lower Upper

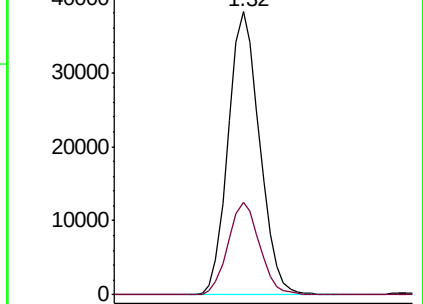
50 100

52 32.7 22.9 42.5

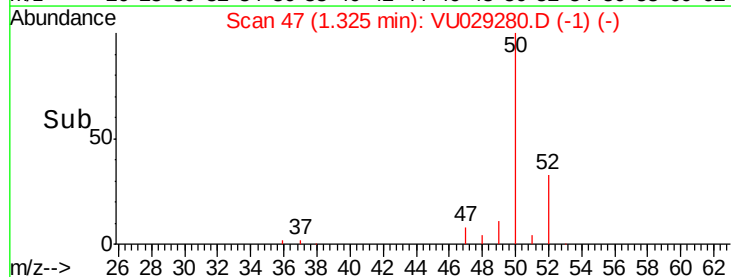


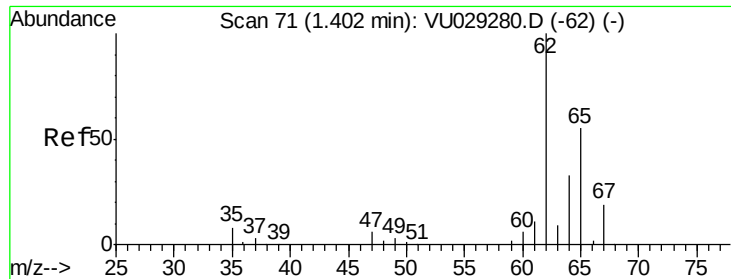
Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



Time--> 1.30 1.35





#5

Vinyl chloride

Concen: 4.746 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029280.D

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Instrument :

MSVOA_U

ClientSampleId :

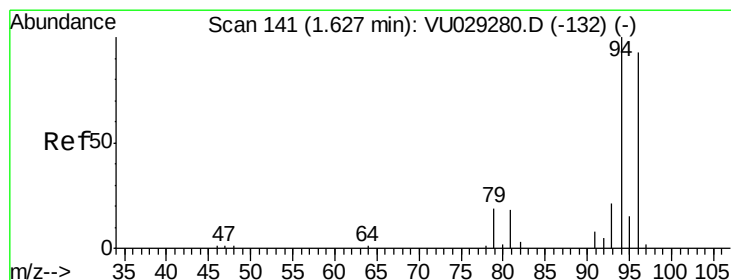
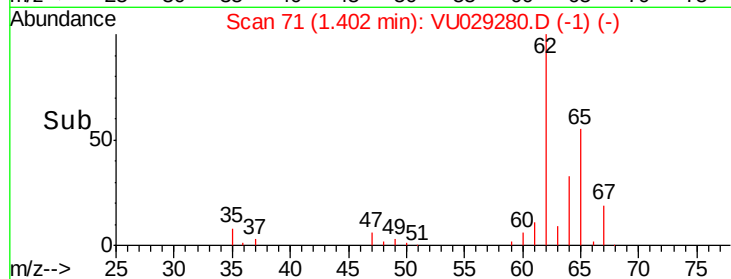
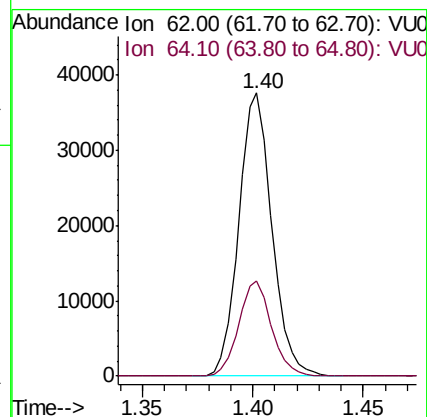
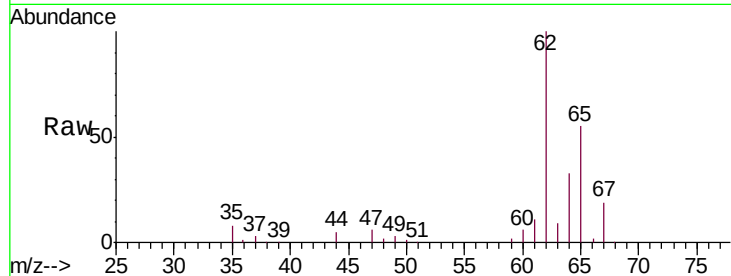
VSTD00544

Tgt Ion: 62 Resp: 39264

Ion Ratio Lower Upper

62 100

64 33.5 23.4 43.6



#6

Bromomethane

Concen: 4.777 ug/L

RT: 1.63 min Scan# 141

Delta R.T. 0.00 min

Lab File: VU029280.D

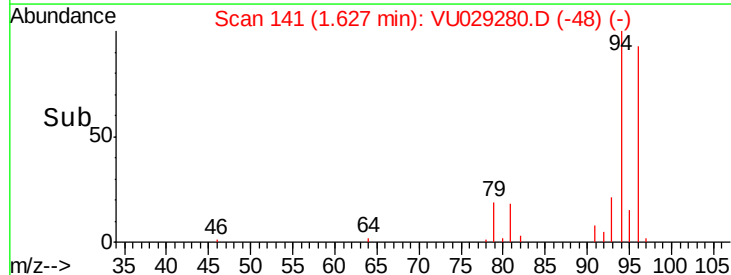
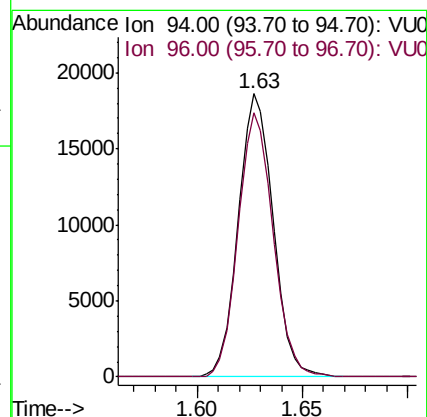
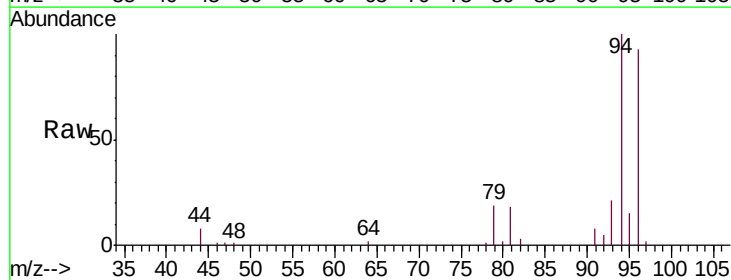
Acq: 25 Jan 2019 10:54

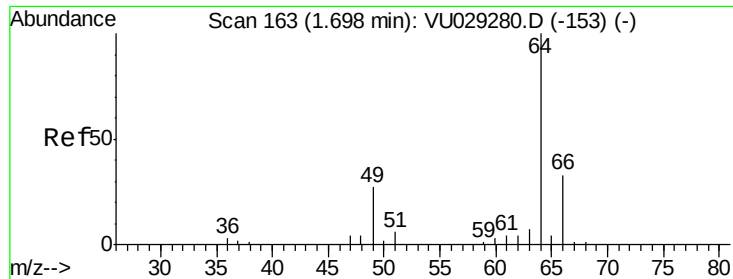
Tgt Ion: 94 Resp: 21281

Ion Ratio Lower Upper

94 100

96 93.1 65.2 121.0





#8

Chloroethane

Concen: 4.684 ug/L

RT: 1.70 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

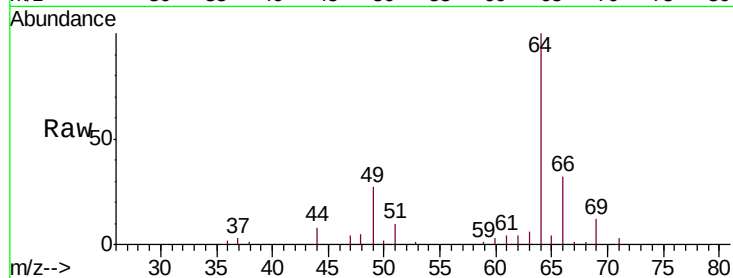
VSTD00544

Tgt Ion: 64 Resp: 21651

Ion Ratio Lower Upper

64 100

66 32.4 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU029280.D (-153) (-)

Ion 66.05 (65.75 to 66.75): VU029280.D (-153) (-)

1.70

15000

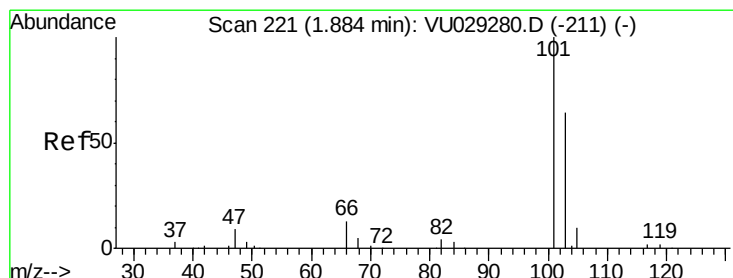
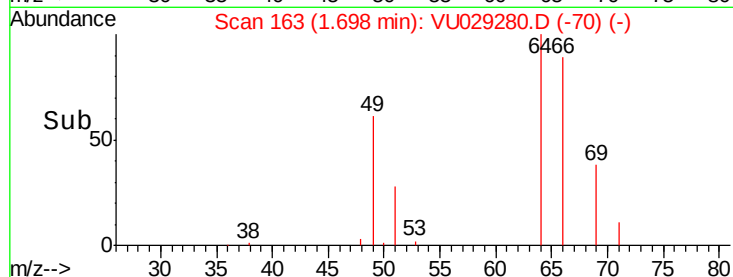
10000

5000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 4.887 ug/L

RT: 1.88 min Scan# 221

Delta R.T. 0.00 min

Lab File: VU029280.D

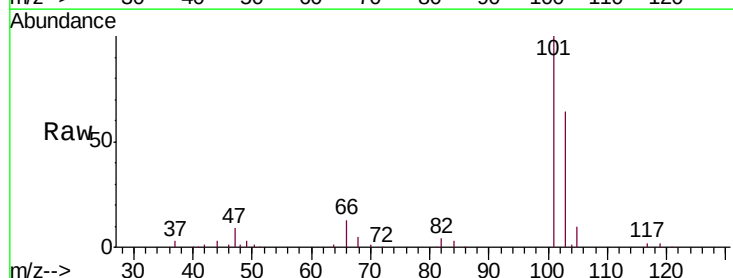
Acq: 25 Jan 2019 10:54

Tgt Ion: 101 Resp: 53767

Ion Ratio Lower Upper

101 100

103 64.9 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU029280.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU029280.D (-211) (-)

1.88

40000

30000

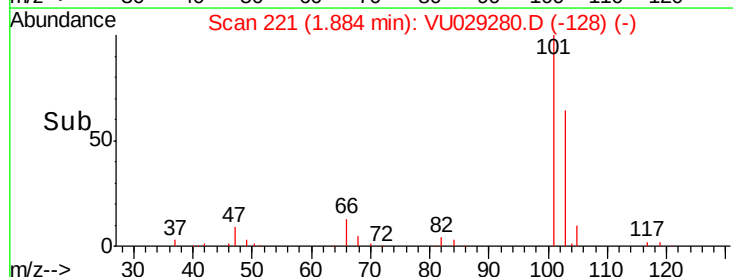
20000

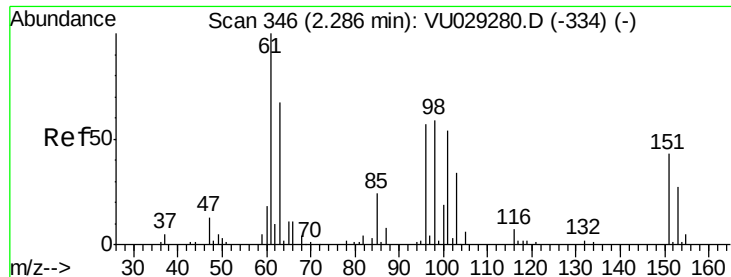
10000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 4.864 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00544

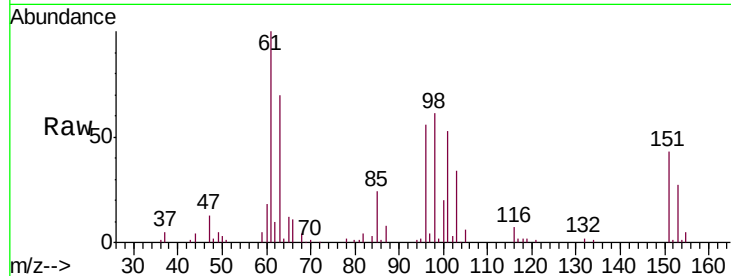
Tgt Ion:101 Resp: 27207

Ion Ratio Lower Upper

101 100

85 45.2 36.2 54.2

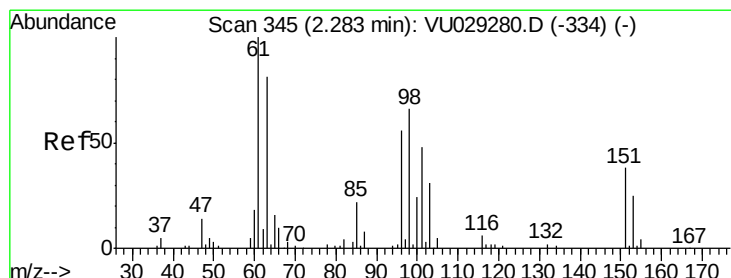
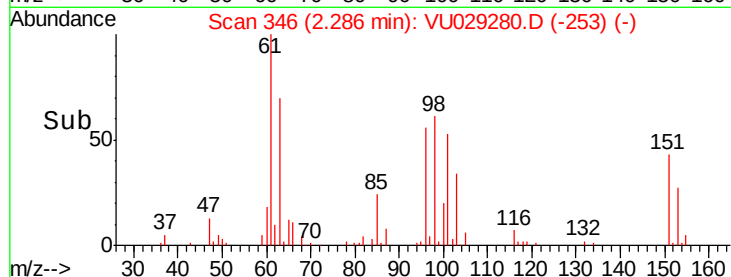
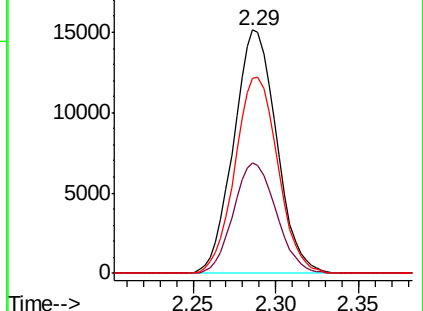
151 80.6 64.5 96.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.870 ug/L

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

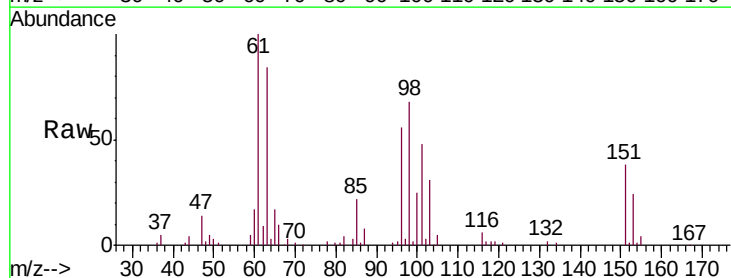
Tgt Ion: 96 Resp: 25110

Ion Ratio Lower Upper

96 100

61 179.2 125.4 233.0

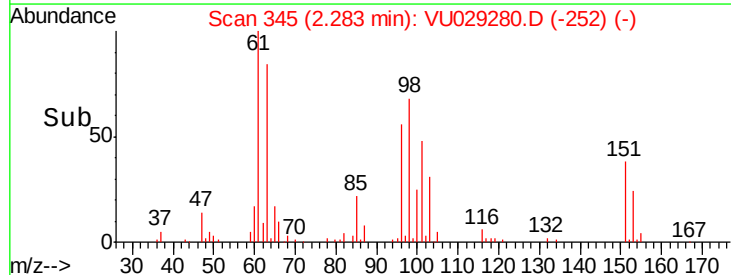
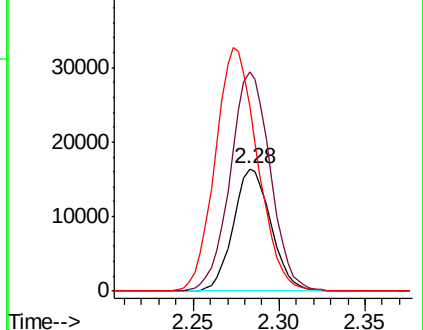
63 151.1 105.8 196.4

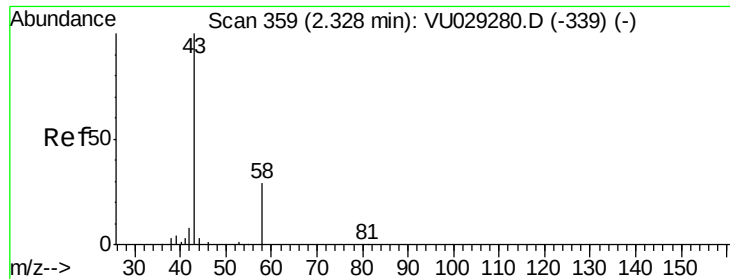


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 46.369 ug/L

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

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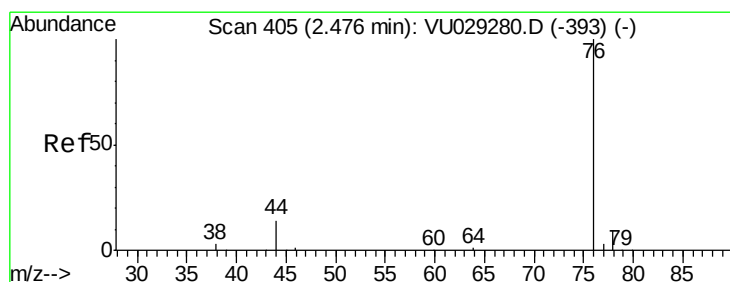
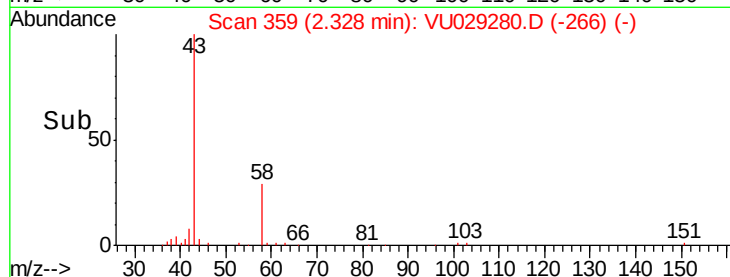
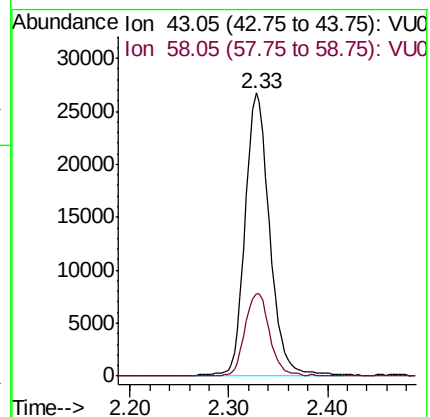
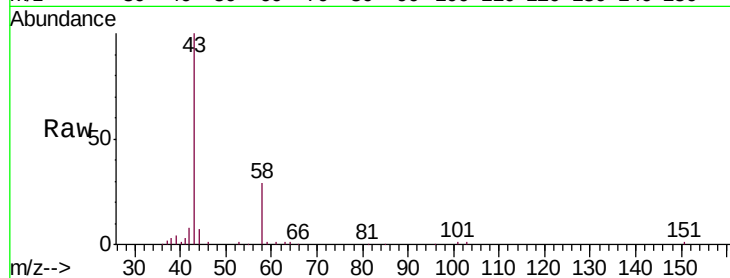
VSTD00544

Tgt Ion: 43 Resp: 46213

Ion Ratio Lower Upper

43 100

58 29.4 0.0 58.8



#14

Carbon disulfide

Concen: 4.733 ug/L

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029280.D

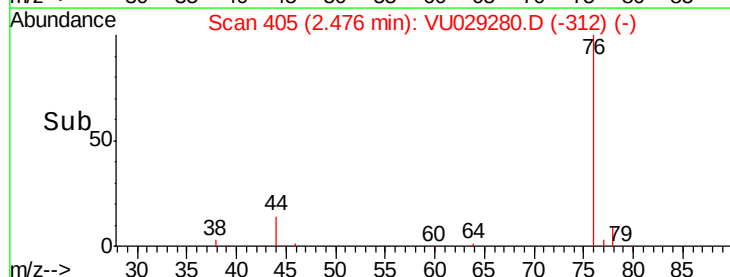
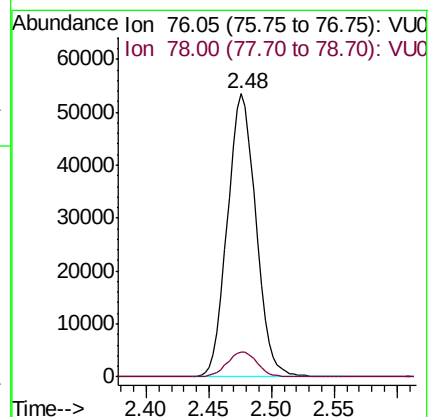
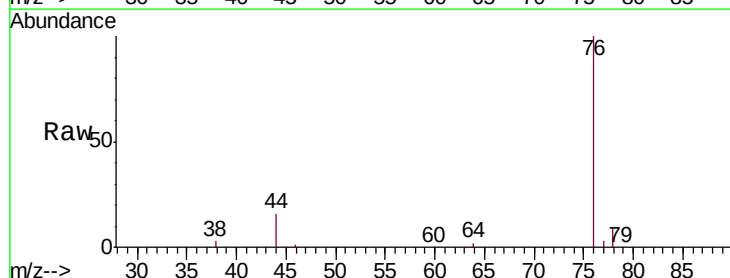
Acq: 25 Jan 2019 10:54

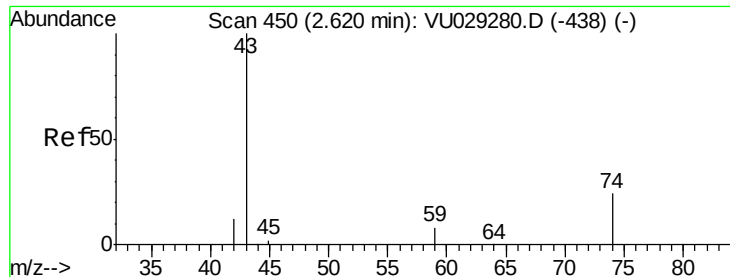
Tgt Ion: 76 Resp: 84514

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7

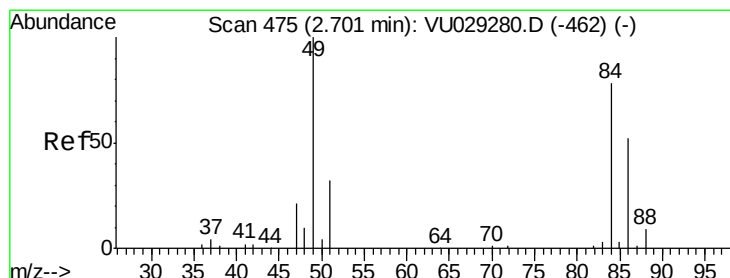
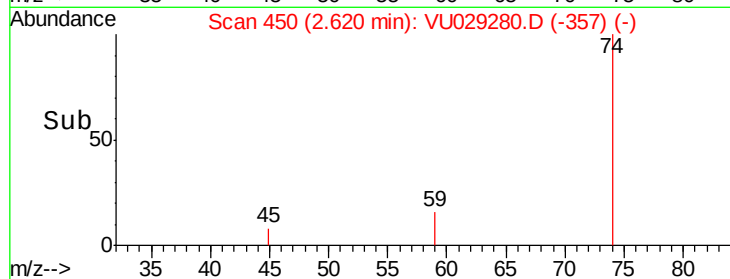
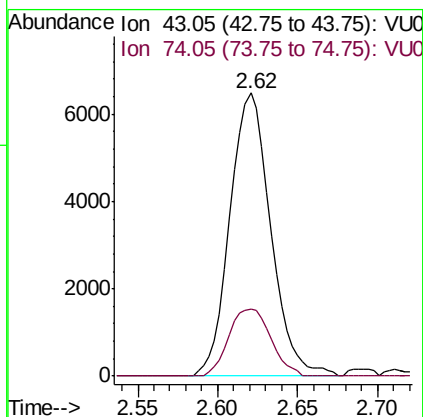
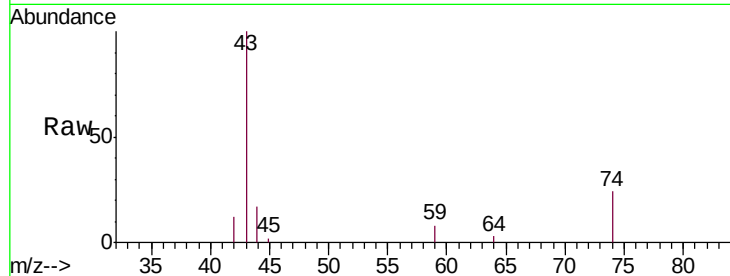




#15
Methyl Acetate
Concen: 4.715 ug/L
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU029280.D
Acq: 25 Jan 2019 10:54

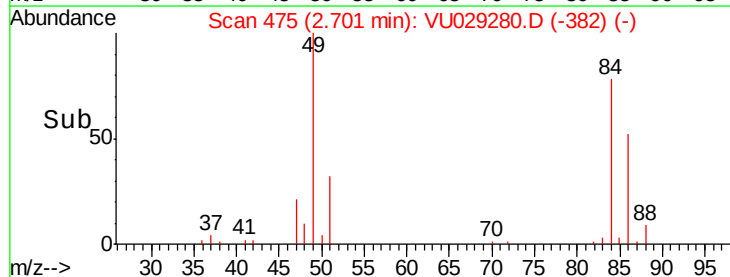
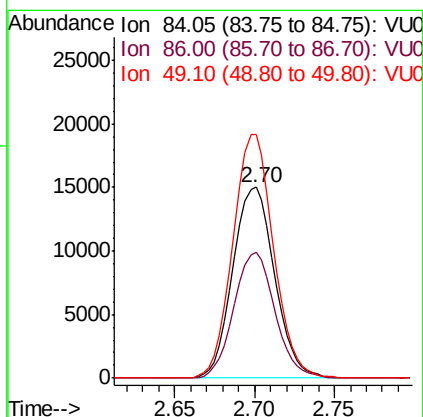
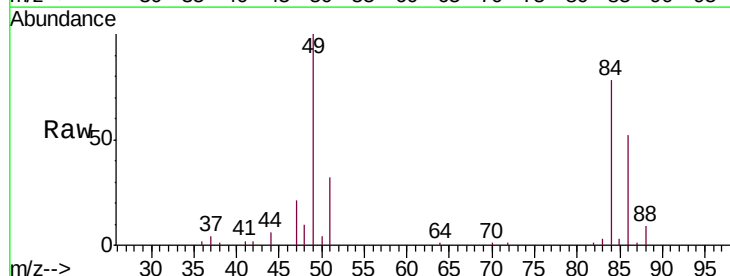
Instrument :
MSVOA_U
ClientSampleId :
VSTD00544

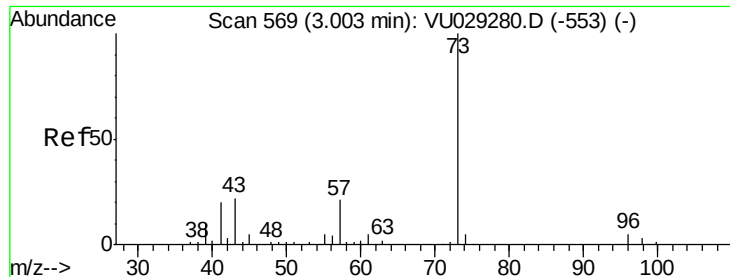
Tgt Ion: 43 Resp: 11262
Ion Ratio Lower Upper
43 100
74 24.4 19.5 29.3



#16
Methylene chloride
Concen: 4.424 ug/L
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029280.D
Acq: 25 Jan 2019 10:54

Tgt Ion: 84 Resp: 26772
Ion Ratio Lower Upper
84 100
86 65.9 46.1 85.7
49 127.6 89.3 165.9



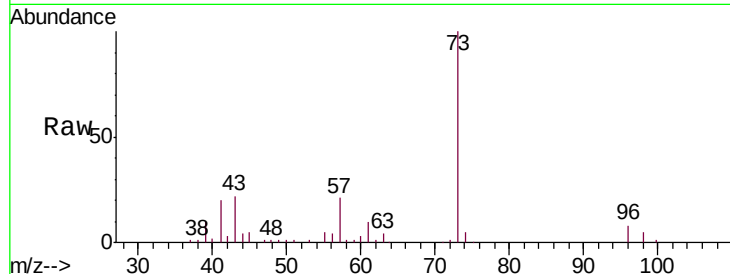


#17

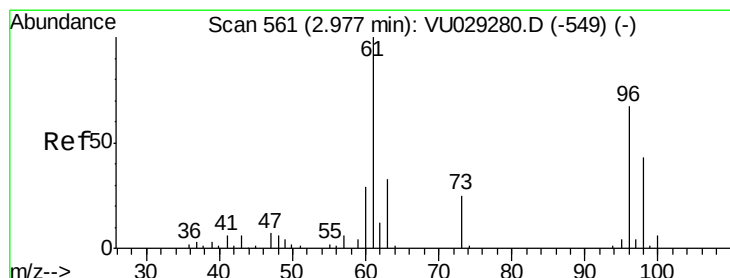
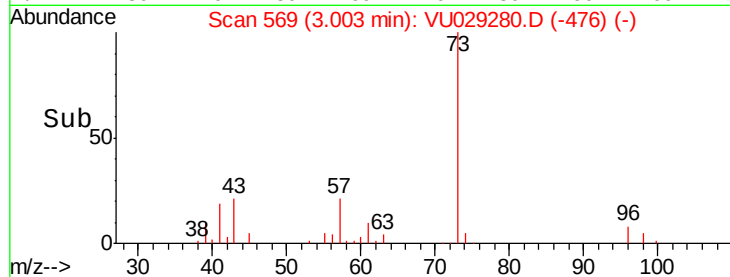
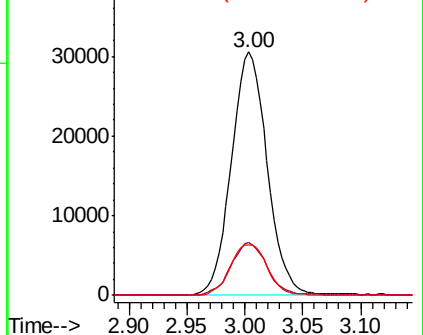
Methyl tert-butyl Ether
 Concen: 4.907 ug/L
 RT: 3.00 min Scan# 569
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00544

Tgt Ion: 73 Resp: 65675
 Ion Ratio Lower Upper
 73 100
 43 21.8 17.4 26.2
 57 21.4 17.1 25.7



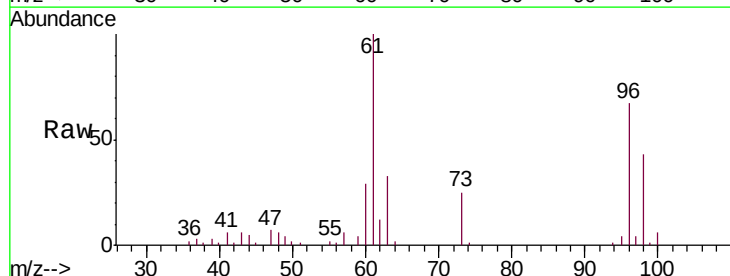
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



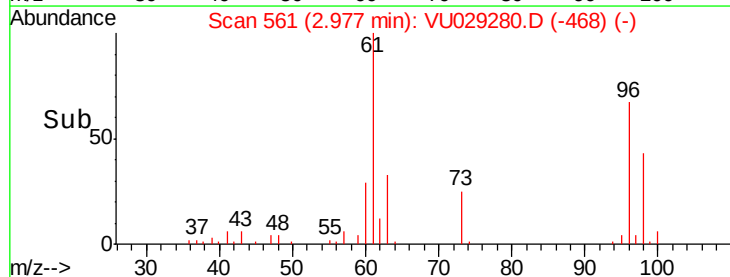
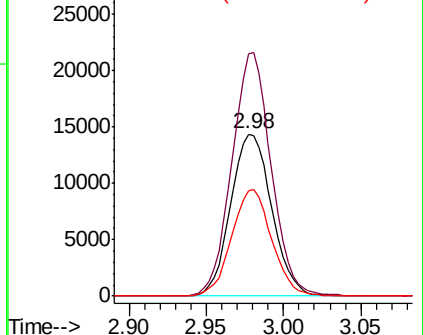
#18

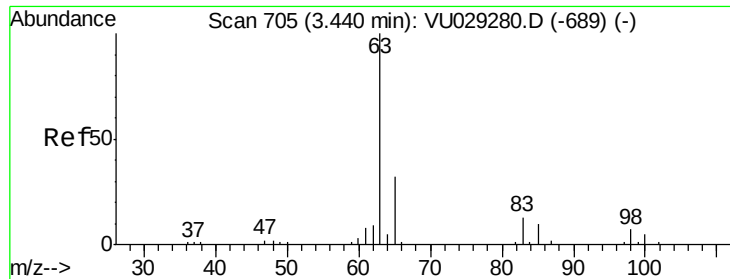
trans-1,2-Dichloroethene
 Concen: 4.733 ug/L
 RT: 2.98 min Scan# 561
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Tgt Ion: 96 Resp: 26482
 Ion Ratio Lower Upper
 96 100
 61 149.2 104.4 194.0
 98 64.8 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

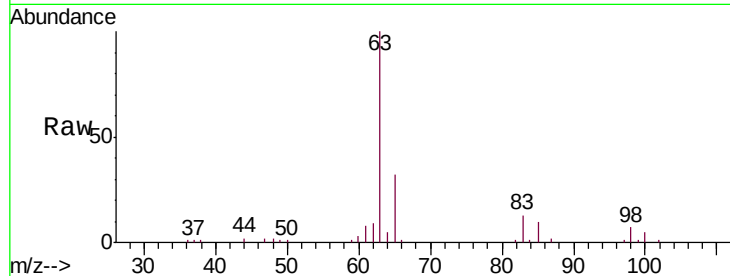




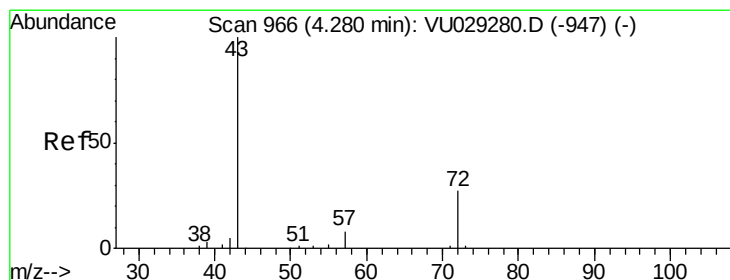
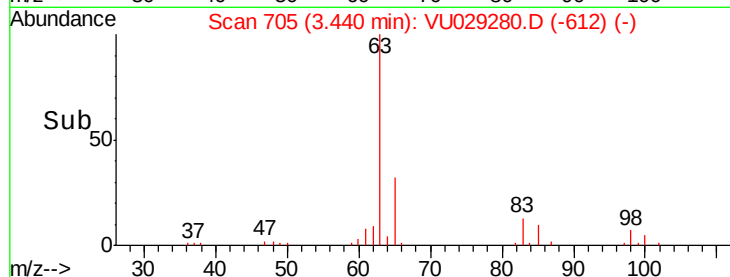
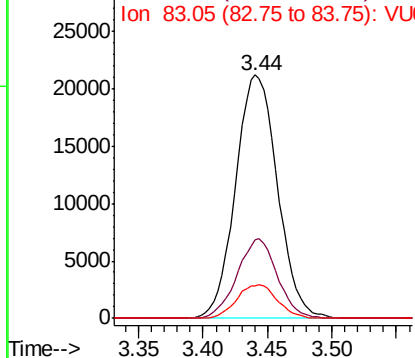
#19
 1,1-Dichloroethane
 Concen: 4.803 ug/L
 RT: 3.44 min Scan# 705
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00544

Tgt Ion: 63 Resp: 47948
 Ion Ratio Lower Upper
 63 100
 65 32.4 22.7 42.1
 83 13.5 9.4 17.6

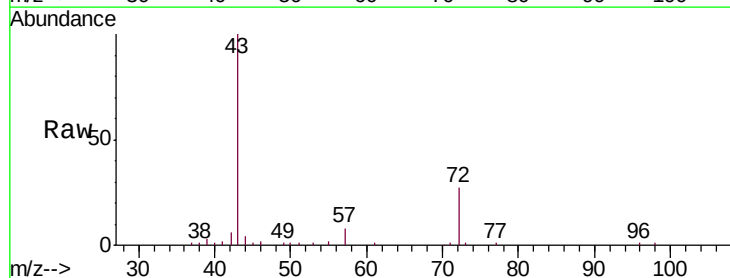


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

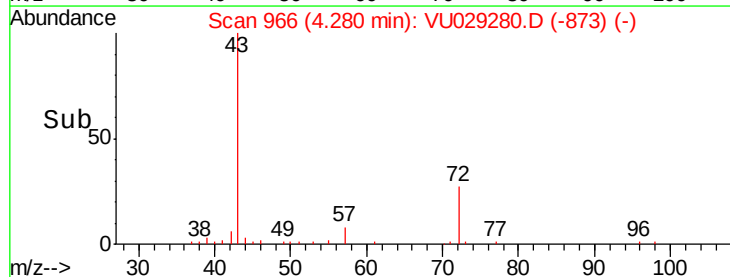
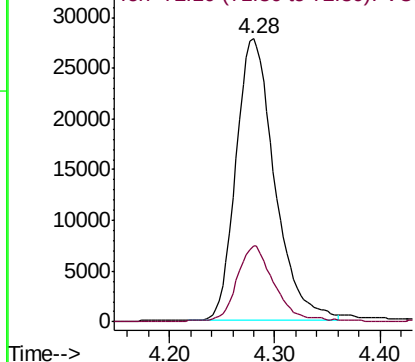


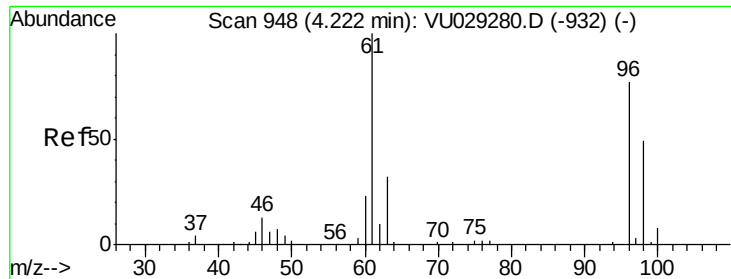
#21
 2-Butanone
 Concen: 49.190 ug/L
 RT: 4.28 min Scan# 966
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Tgt Ion: 43 Resp: 70960
 Ion Ratio Lower Upper
 43 100
 72 26.8 13.4 40.2



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



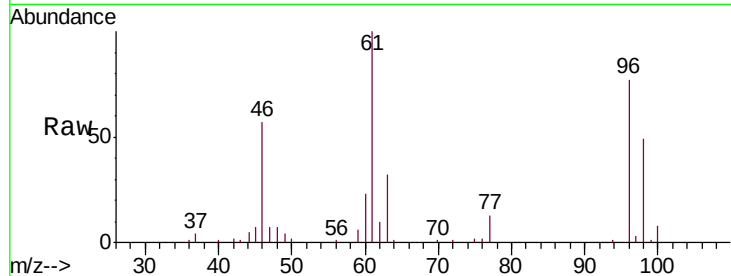


#22

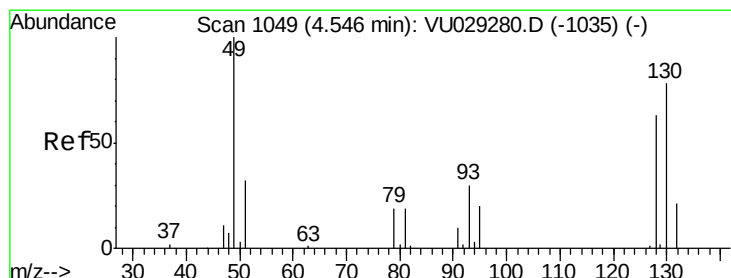
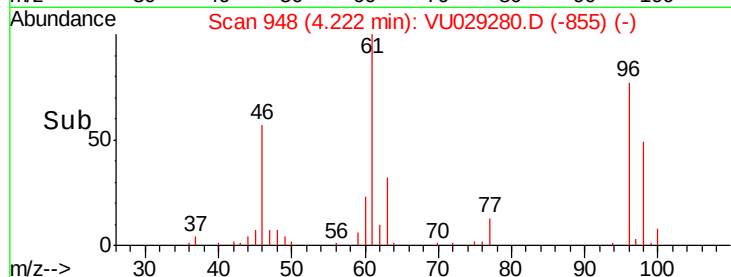
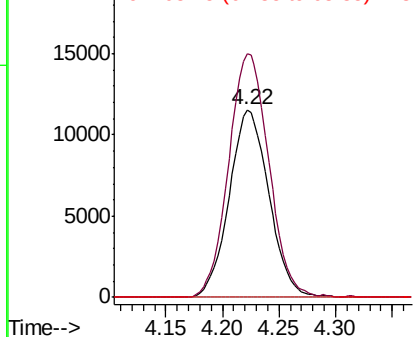
cis-1,2-Dichloroethene
 Concen: 5.016 ug/L
 RT: 4.22 min Scan# 948
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00544

Tgt Ion: 96 Resp: 28215
 Ion Ratio Lower Upper
 96 100
 61 129.6 90.7 168.5
 68 0.0 0.0 0.0



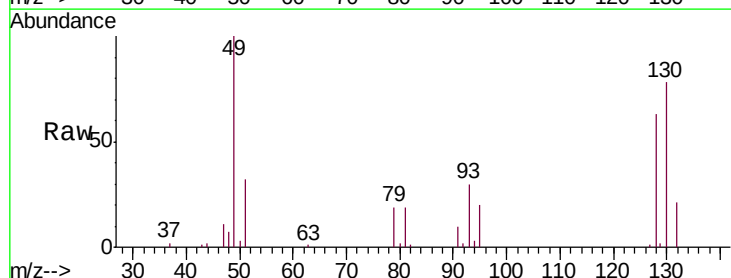
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



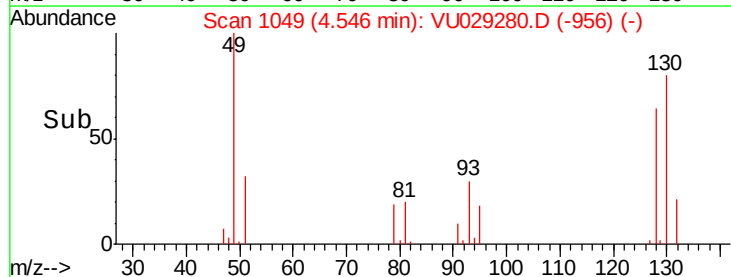
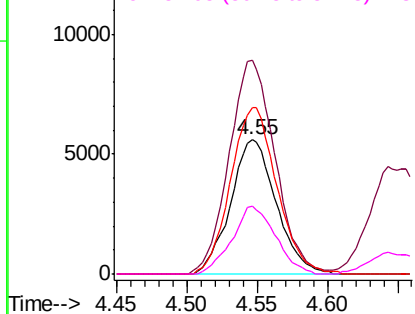
#23

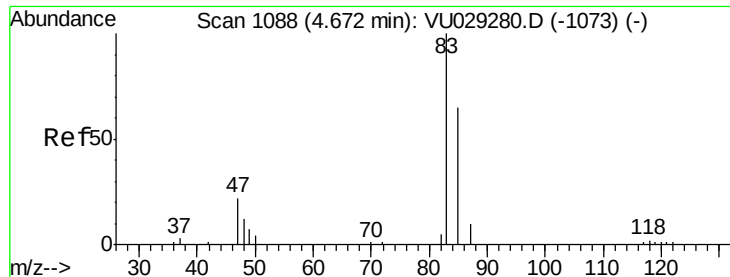
Bromochloromethane
 Concen: 4.967 ug/L
 RT: 4.55 min Scan# 1049
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Tgt Ion: 128 Resp: 12694
 Ion Ratio Lower Upper
 128 100
 49 159.1 111.4 206.8
 130 124.4 87.1 161.7
 51 50.2 40.2 60.2



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

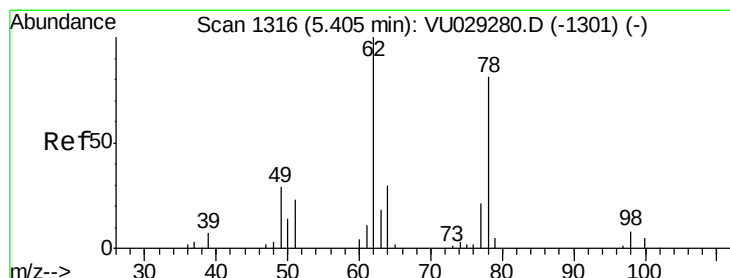
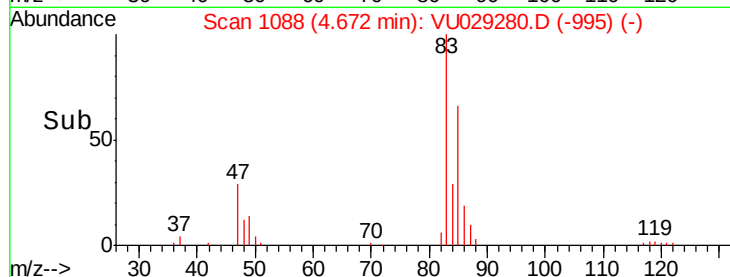
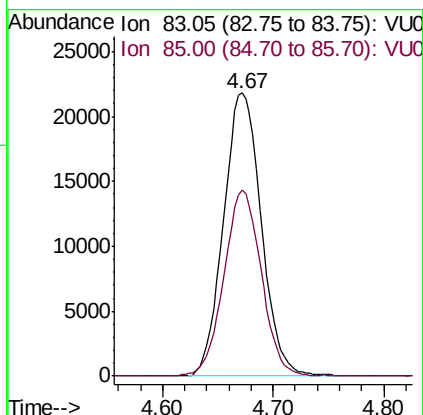
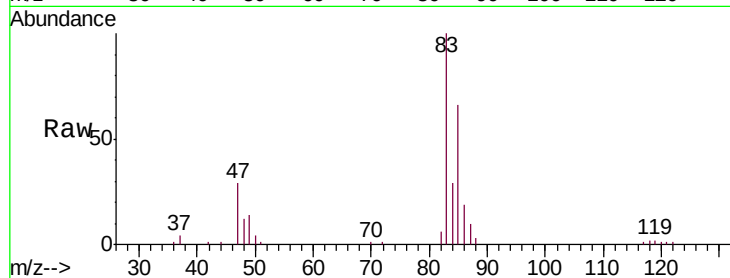




#25
Chloroform
Concen: 4.950 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU029280.D
Acq: 25 Jan 2019 10:54

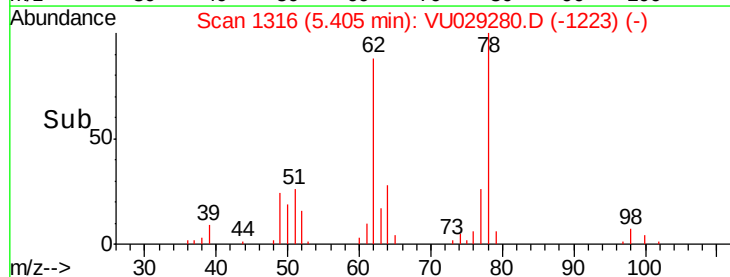
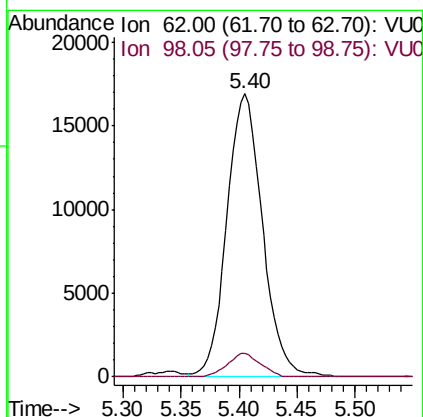
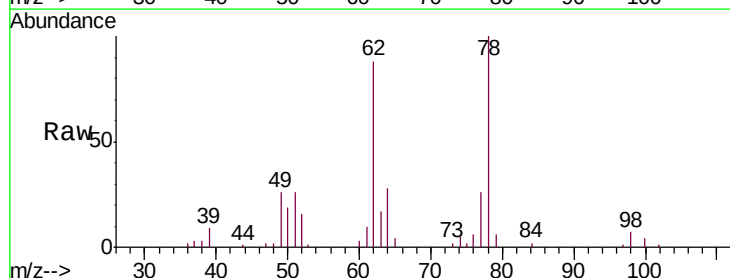
Instrument :
MSVOA_U
ClientSampleId :
VSTD00544

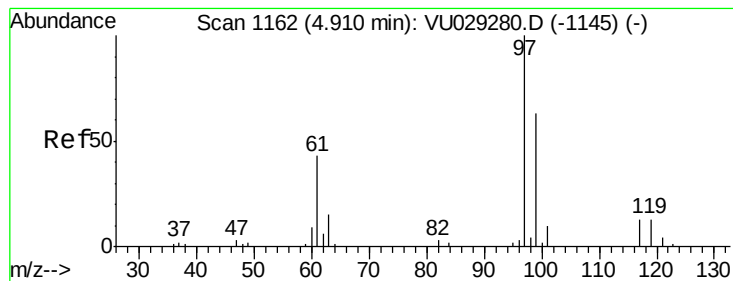
Tgt Ion: 83 Resp: 51745
Ion Ratio Lower Upper
83 100
85 65.9 46.1 85.7



#27
1,2-Dichloroethane
Concen: 5.036 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU029280.D
Acq: 25 Jan 2019 10:54

Tgt Ion: 62 Resp: 36055
Ion Ratio Lower Upper
62 100
98 8.3 6.6 10.0





#29

1,1,1-Trichloroethane

Concen: 4.783 ug/L

RT: 4.91 min Scan# 1162

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00544

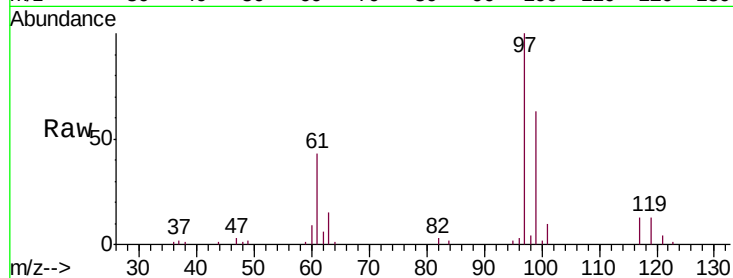
Tgt Ion: 97 Resp: 46468

Ion Ratio Lower Upper

97 100

99 62.3 49.8 74.8

61 43.8 35.0 52.6

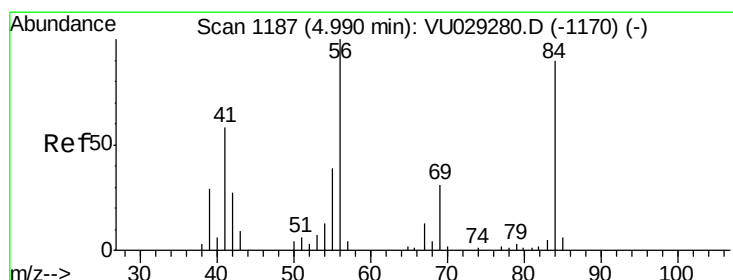
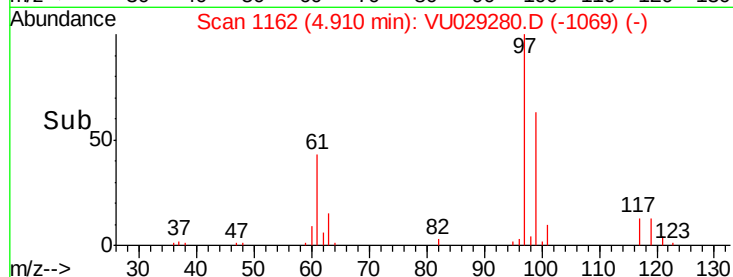
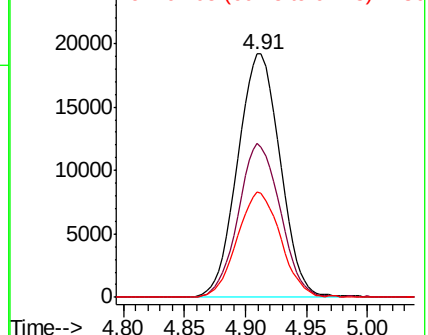


Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.719 ug/L

RT: 4.99 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

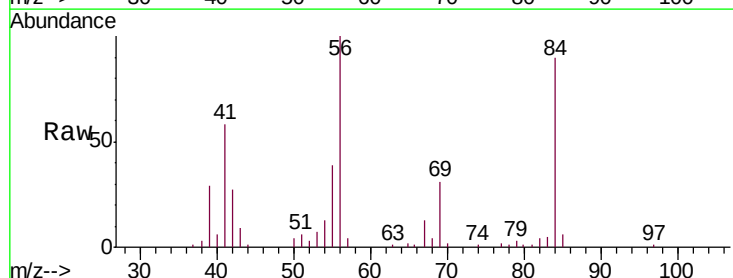
Tgt Ion: 56 Resp: 41227

Ion Ratio Lower Upper

56 100

69 30.2 24.2 36.2

84 90.4 72.3 108.5

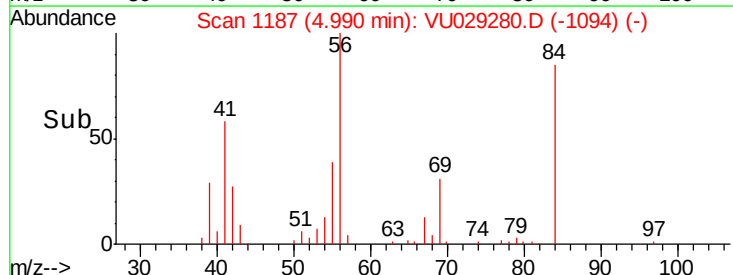
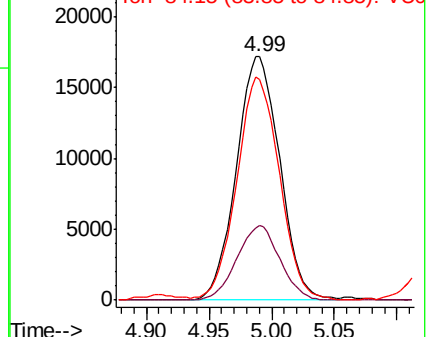


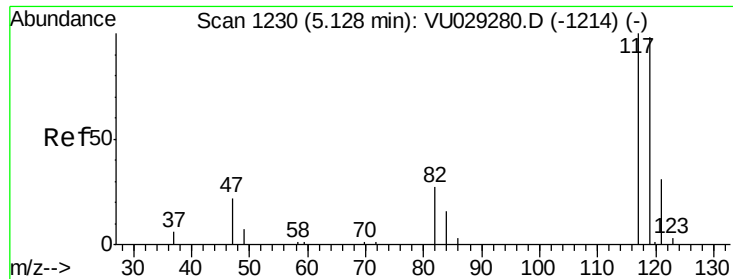
Abundance

Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.880 ug/L

RT: 5.13 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

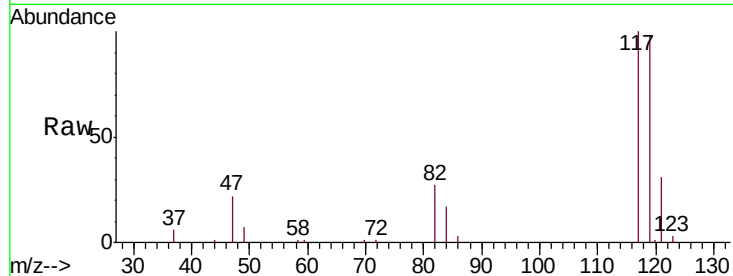
VSTD00544

Tgt Ion:117 Resp: 40447

Ion Ratio Lower Upper

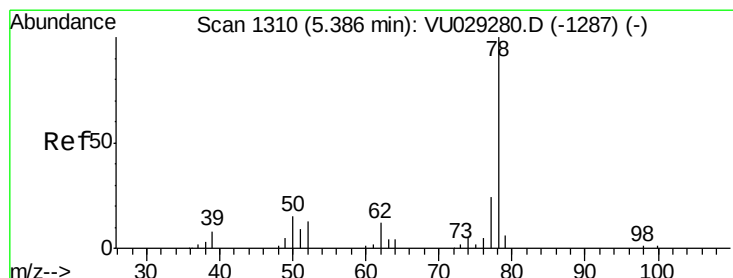
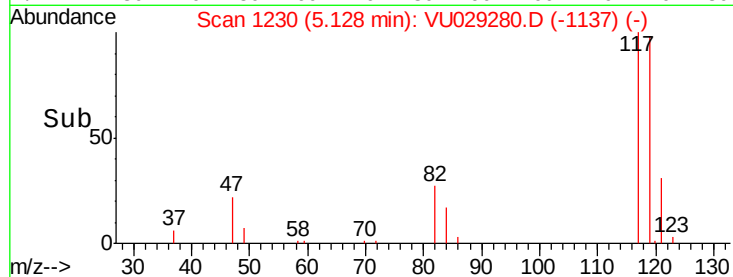
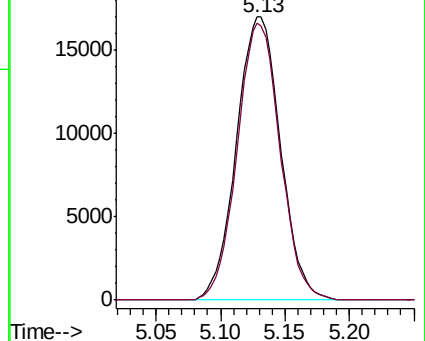
117 100

119 95.1 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.878 ug/L

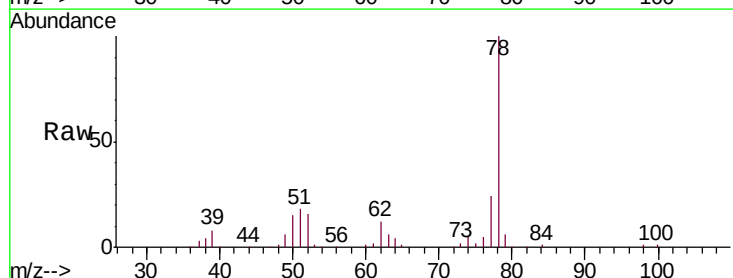
RT: 5.39 min Scan# 1310

Delta R.T. 0.00 min

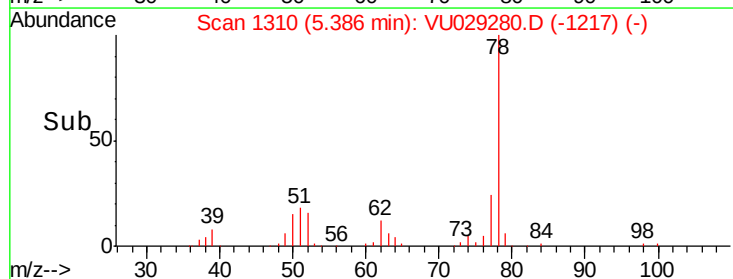
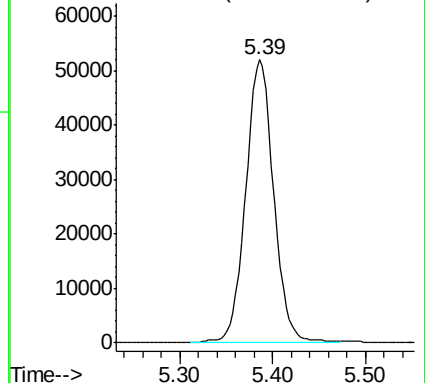
Lab File: VU029280.D

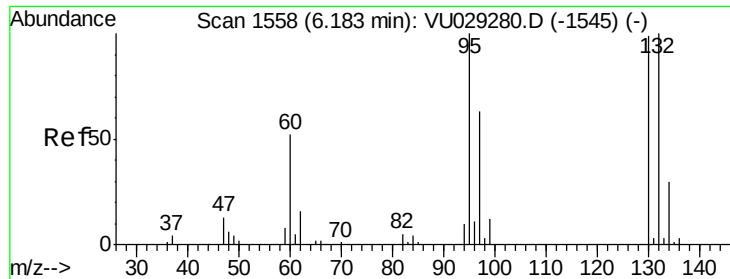
Acq: 25 Jan 2019 10:54

Tgt Ion: 78 Resp: 109036



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.776 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00544

Tgt Ion: 95 Resp: 28263

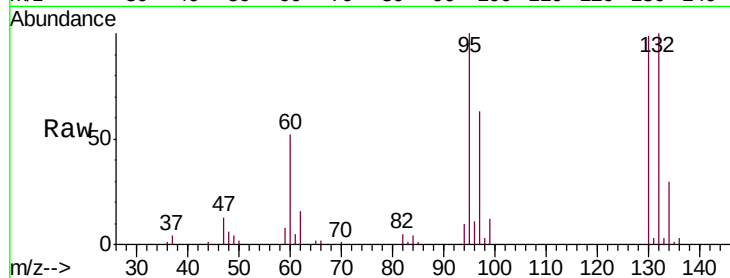
Ion Ratio Lower Upper

95 100

97 63.3 44.3 82.3

132 99.9 69.9 129.9

130 98.8 69.2 128.4

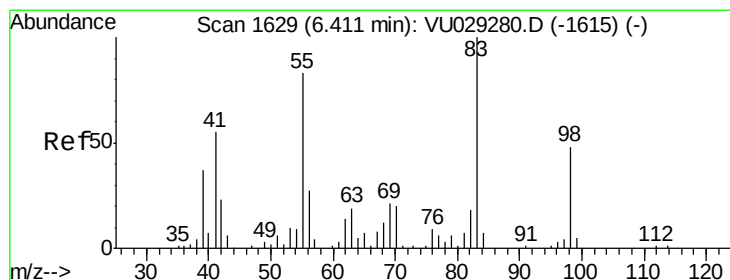
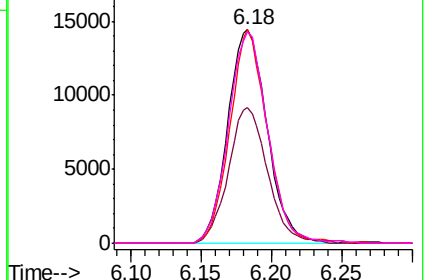
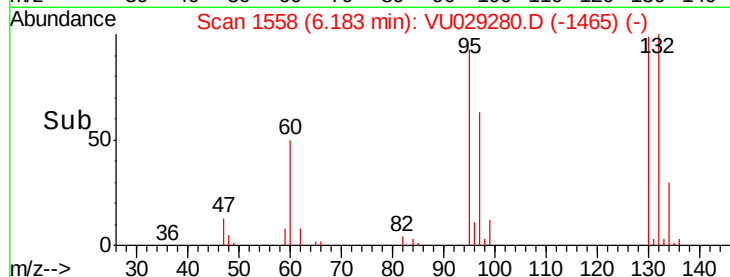


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.665 ug/L

RT: 6.41 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

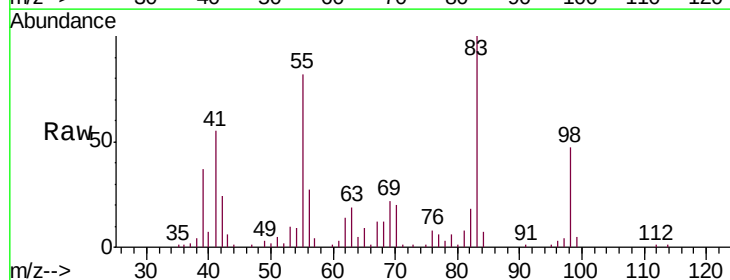
Tgt Ion: 83 Resp: 44148

Ion Ratio Lower Upper

83 100

55 82.9 66.3 99.5

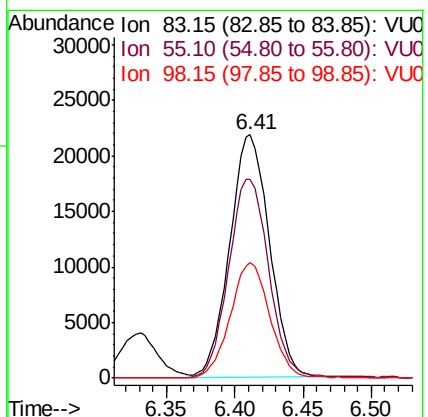
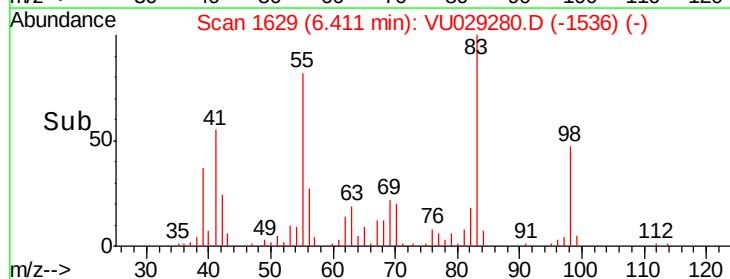
98 47.4 37.9 56.9

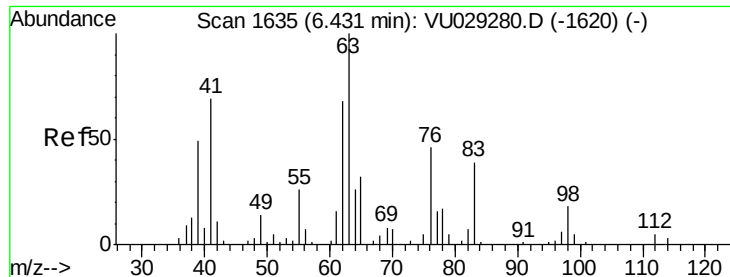


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

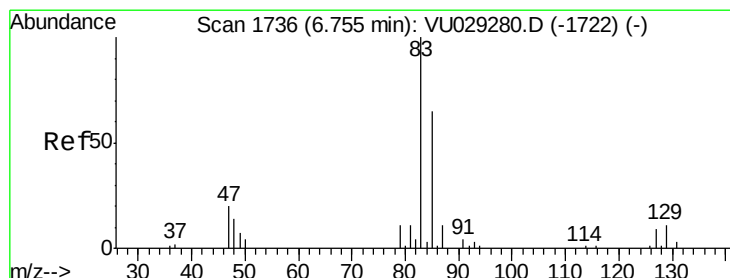
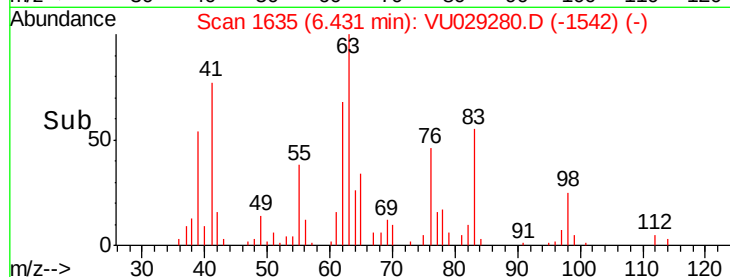
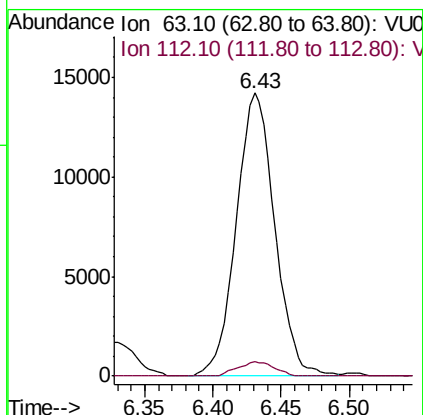
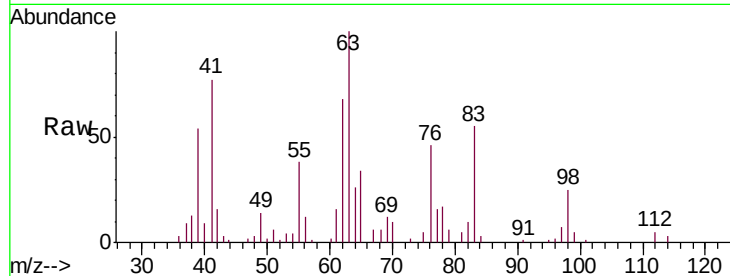




#37
 1,2-Dichloropropane
 Concen: 4.728 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

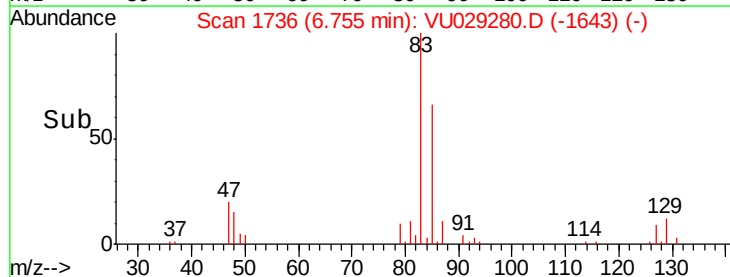
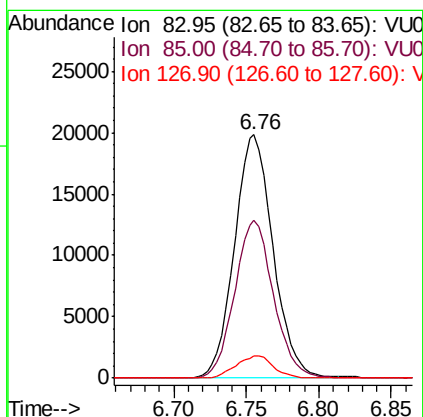
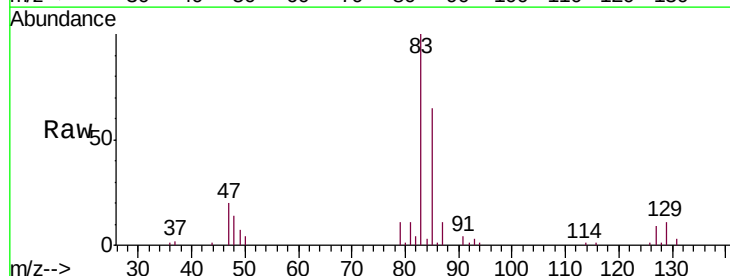
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00544

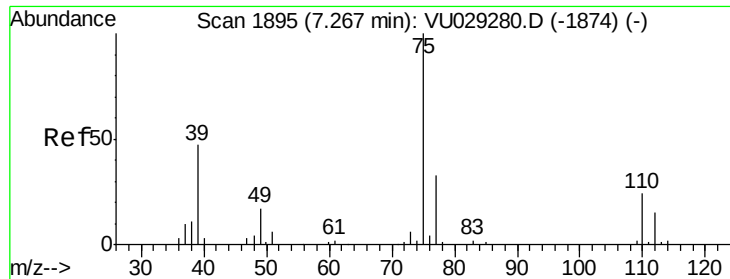
Tgt Ion: 63 Resp: 27890
 Ion Ratio Lower Upper
 63 100
 112 4.9 3.9 5.9



#38
 Bromodichloromethane
 Concen: 4.709 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Tgt Ion: 83 Resp: 36708
 Ion Ratio Lower Upper
 83 100
 85 64.7 45.3 84.1
 127 8.9 7.1 10.7

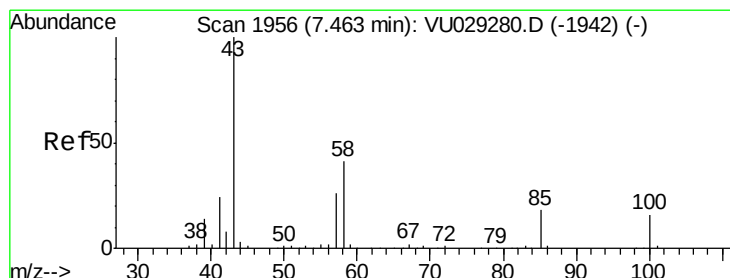
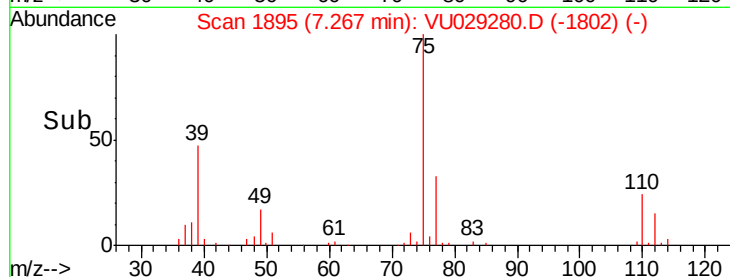
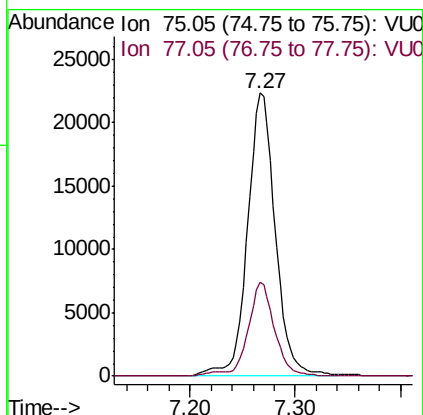
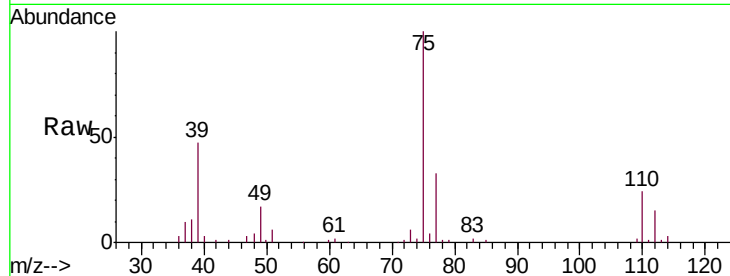




#39
 cis-1,3-Dichloropropene
 Concen: 4.849 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

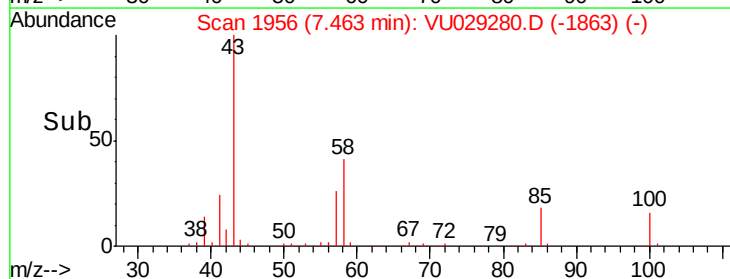
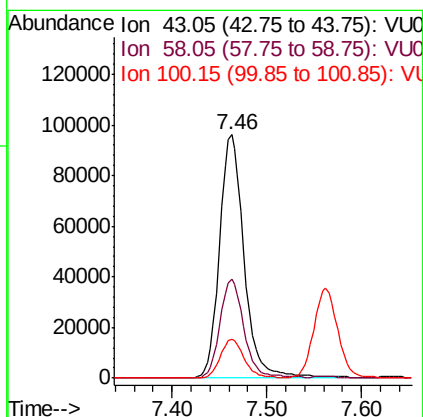
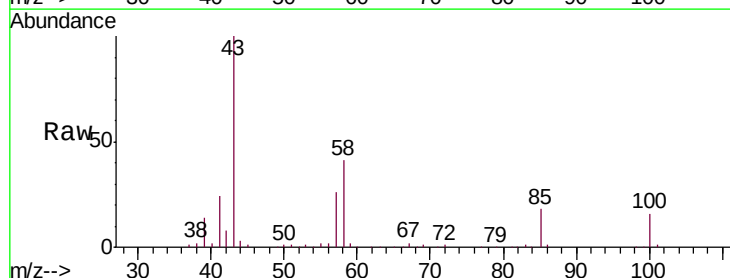
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00544

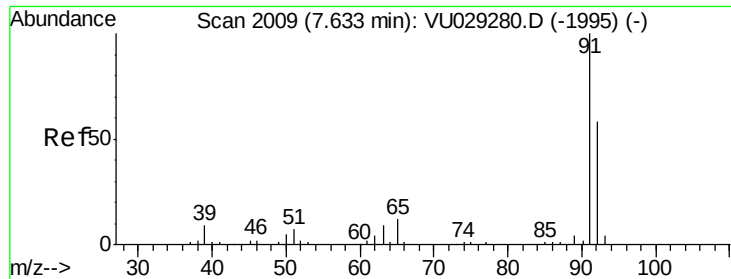
Tgt Ion: 75 Resp: 41115
 Ion Ratio Lower Upper
 75 100
 77 33.1 23.2 43.0



#40
 4-Methyl-2-pentanone
 Concen: 48.848 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Tgt Ion: 43 Resp: 173884
 Ion Ratio Lower Upper
 43 100
 58 39.7 31.8 47.6
 100 15.5 12.4 18.6





#42

Toluene

Concen: 4.884 ug/L

RT: 7.63 min Scan# 2009

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

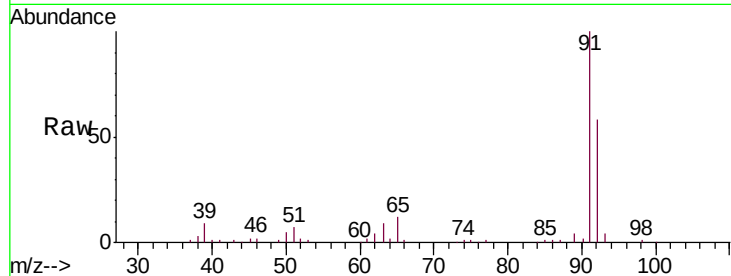
VSTD00544

Tgt Ion: 91 Resp: 117798

Ion Ratio Lower Upper

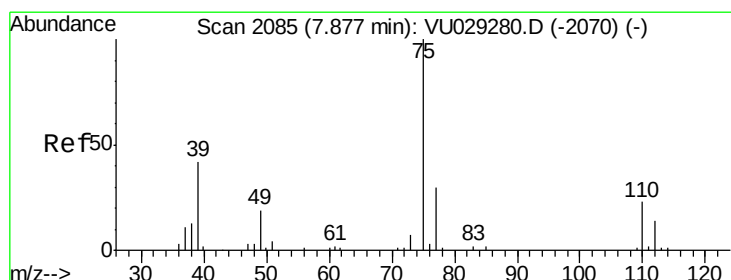
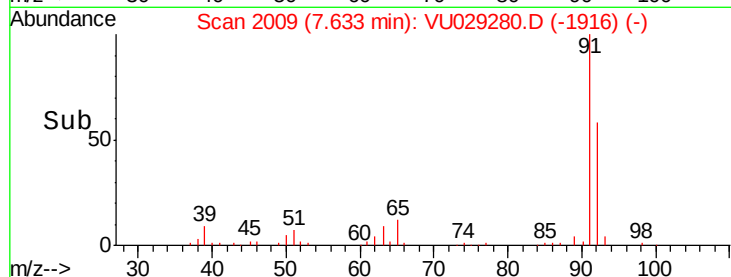
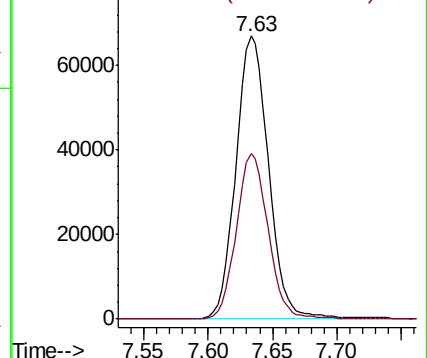
91 100

92 58.4 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 5.021 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU029280.D

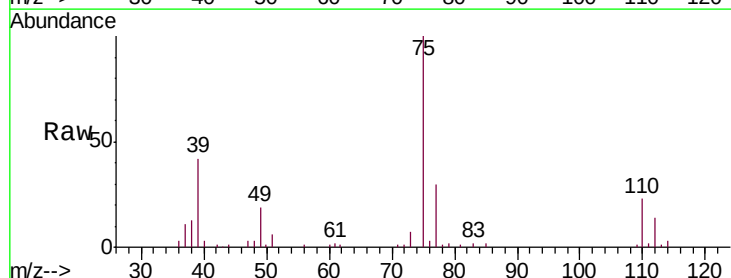
Acq: 25 Jan 2019 10:54

Tgt Ion: 75 Resp: 37021

Ion Ratio Lower Upper

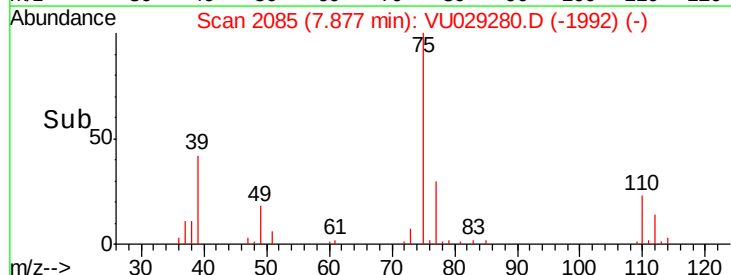
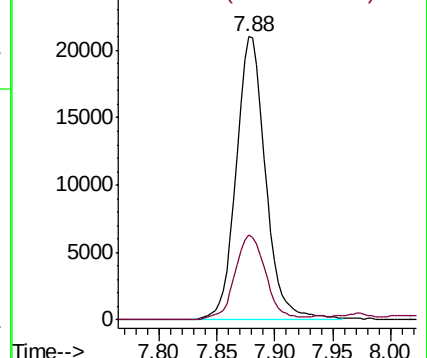
75 100

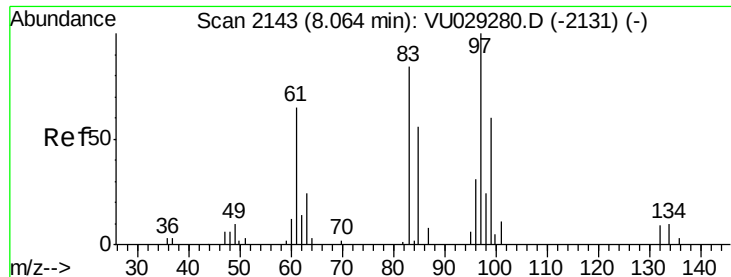
77 30.1 21.1 39.1



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

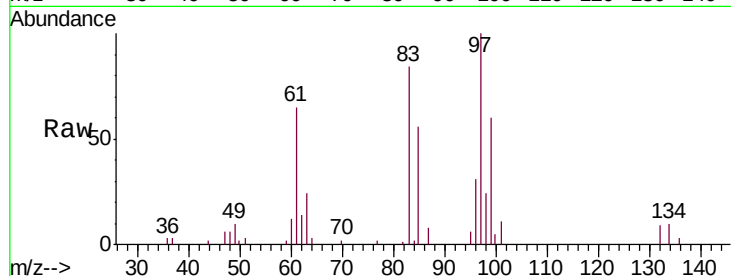




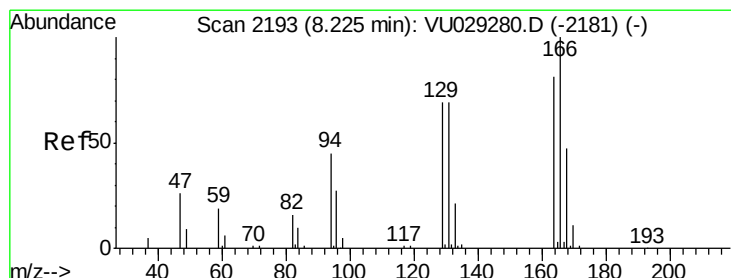
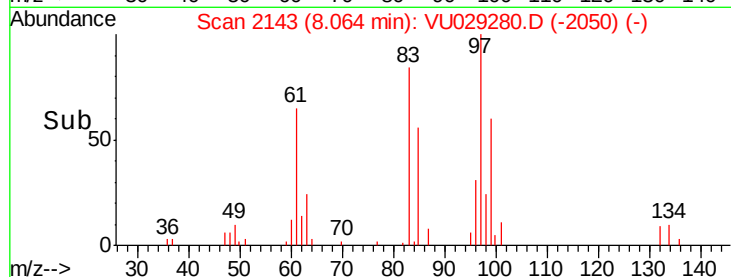
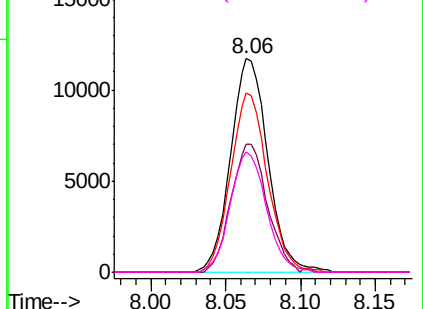
#45
 1,1,2-Trichloroethane
 Concen: 4.801 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00544

Tgt Ion:	97	Resp:	20356
Ion	Ratio	Lower	Upper
97	100		
99	60.2	42.1	78.3
83	83.8	58.7	108.9
85	56.3	39.4	73.2

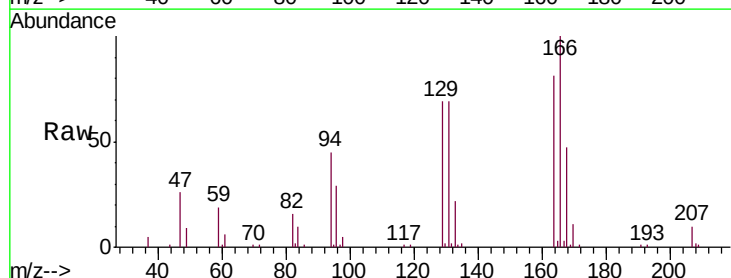


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

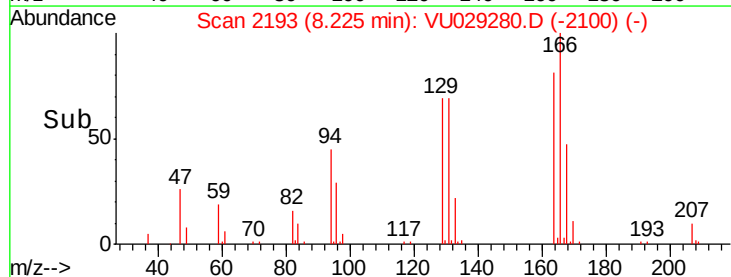
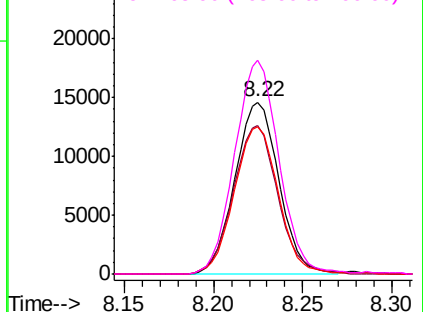


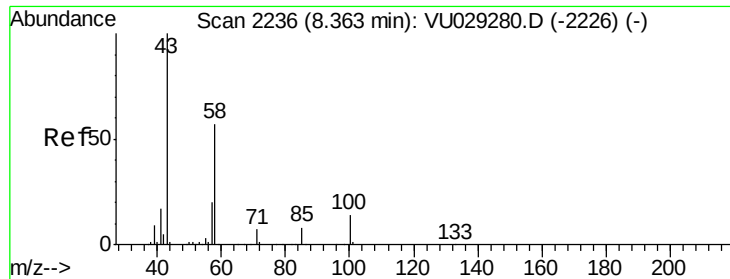
#47
 Tetrachloroethene
 Concen: 4.822 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Tgt Ion:	164	Resp:	25051
Ion	Ratio	Lower	Upper
164	100		
129	85.9	60.1	111.7
131	85.6	59.9	111.3
166	124.1	86.9	161.3



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

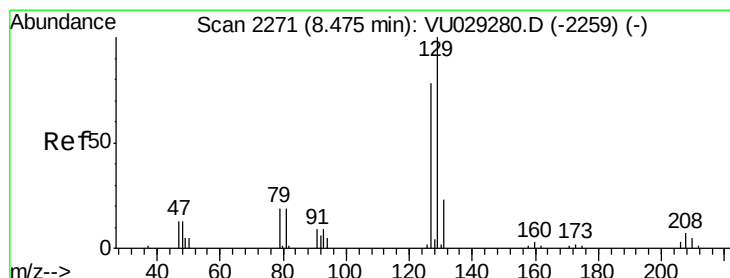
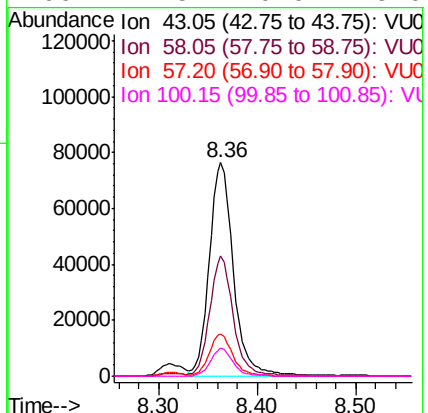
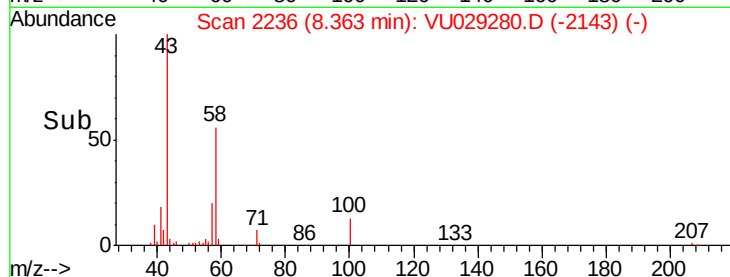
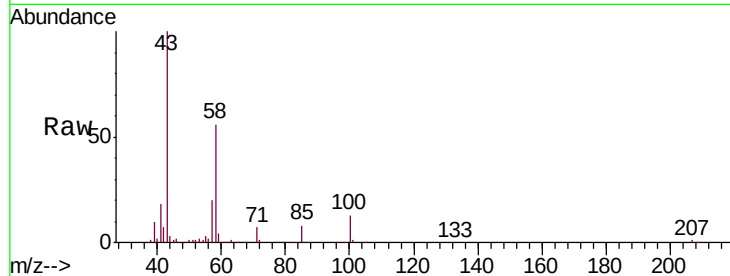




#48
2-Hexanone
Concen: 49.820 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU029280.D
Acq: 25 Jan 2019 10:54

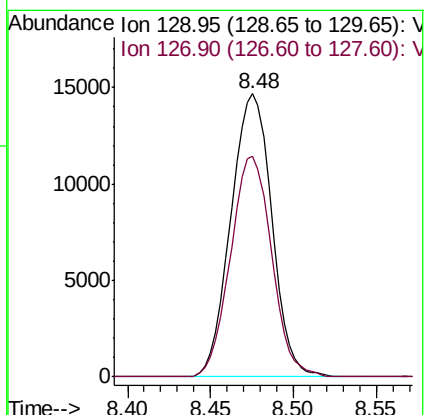
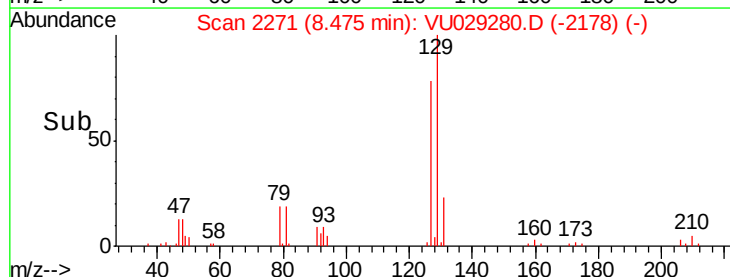
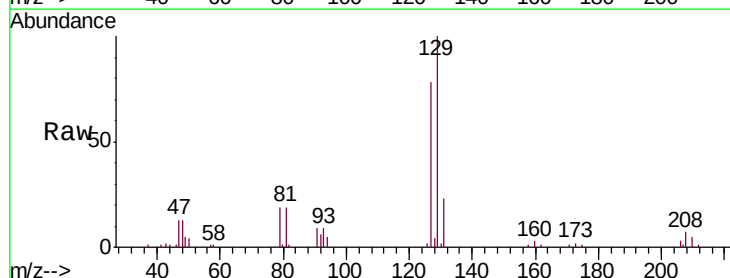
Instrument :
MSVOA_U
ClientSampleId :
VSTD00544

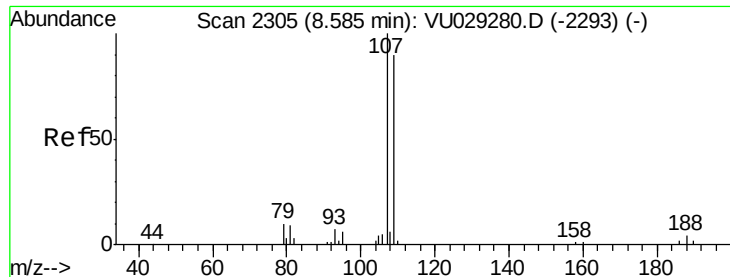
Tgt Ion: 43 Resp: 129250
Ion Ratio Lower Upper
43 100
58 55.2 44.2 66.2
57 19.3 15.4 23.2
100 12.5 10.0 15.0



#49
Dibromochloromethane
Concen: 4.796 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU029280.D
Acq: 25 Jan 2019 10:54

Tgt Ion: 129 Resp: 25246
Ion Ratio Lower Upper
129 100
127 78.2 54.7 101.7

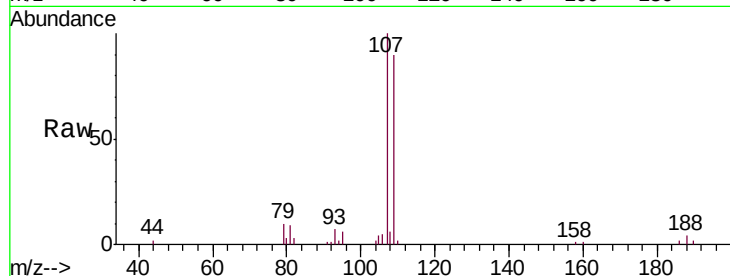




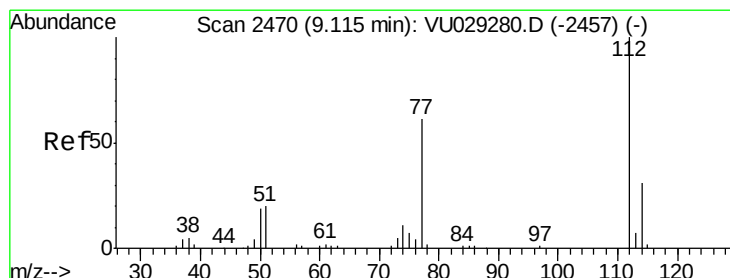
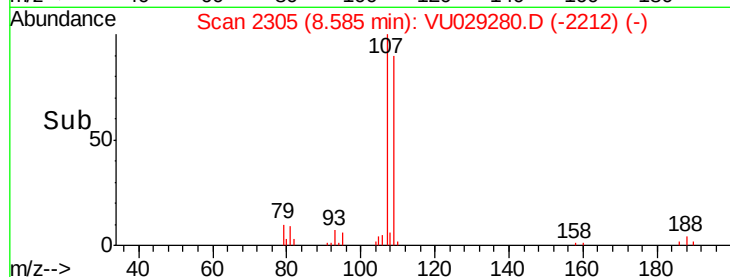
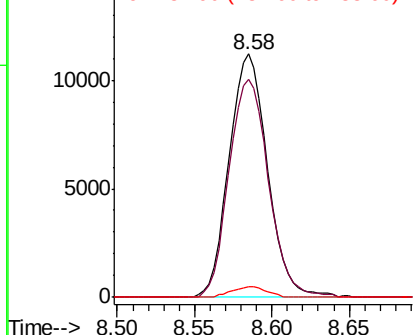
#50
1,2-Dibromoethane
Concen: 4.717 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VU029280.D
Acq: 25 Jan 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD00544

Tgt Ion:107 Resp: 19351
Ion Ratio Lower Upper
107 100
109 89.6 62.7 116.5
188 4.2 3.4 5.0

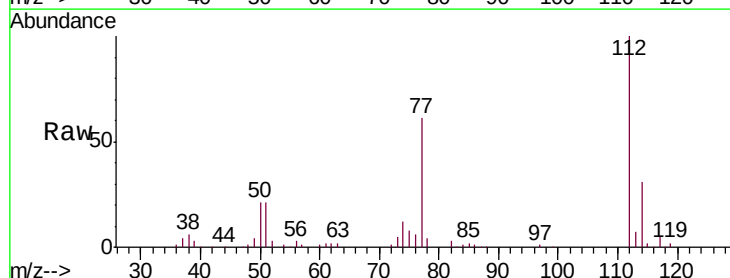


Abundance Ion 106.95 (106.65 to 107.65): V
15000 Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

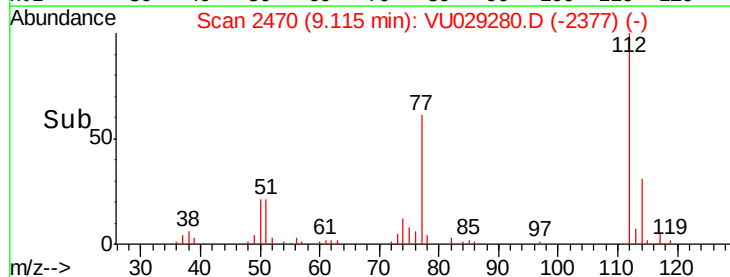
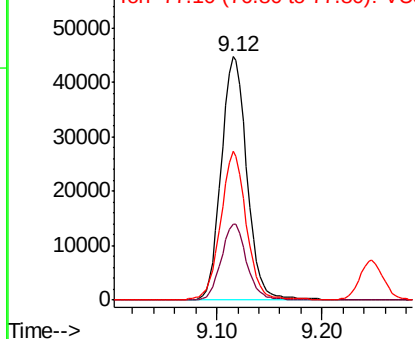


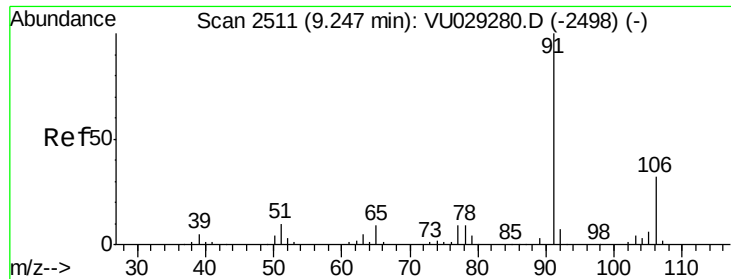
#51
Chlorobenzene
Concen: 4.757 ug/L
RT: 9.12 min Scan# 2470
Delta R.T. 0.00 min
Lab File: VU029280.D
Acq: 25 Jan 2019 10:54

Tgt Ion:112 Resp: 75423
Ion Ratio Lower Upper
112 100
114 31.4 22.0 40.8
77 61.2 49.0 73.4



Abundance Ion 112.10 (111.80 to 112.80): V
60000 Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VU0





#52

Ethylbenzene

Concen: 4.839 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

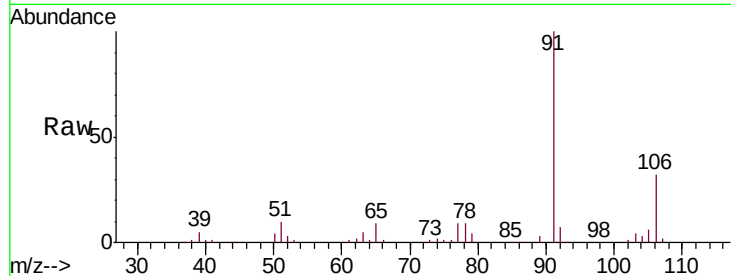
VSTD00544

Tgt Ion: 91 Resp: 128065

Ion Ratio Lower Upper

91 100

106 31.5 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU029280.D (-2498) (-)

Ion 106.15 (105.85 to 106.85): VU029280.D (-2498) (-)

9.25

80000

60000

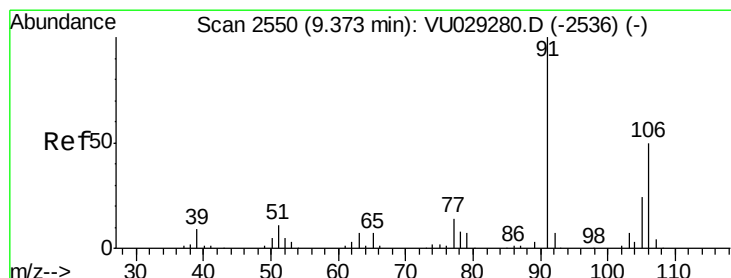
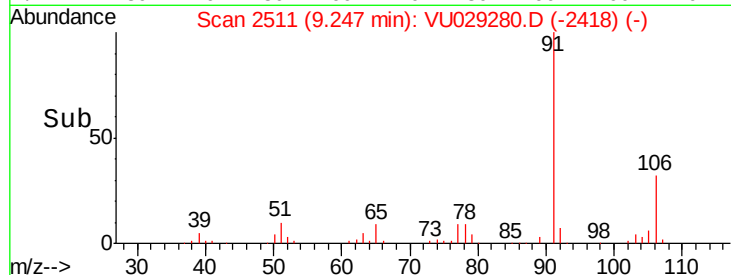
40000

20000

0

9.20 9.25 9.30

Time-->



#53

m,p-xylene

Concen: 4.889 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU029280.D

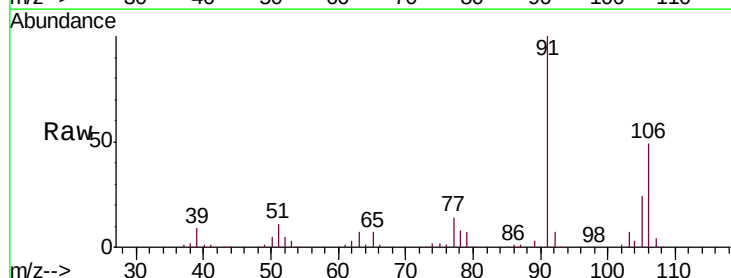
Acq: 25 Jan 2019 10:54

Tgt Ion: 106 Resp: 49156

Ion Ratio Lower Upper

106 100

91 202.1 141.5 262.7



Abundance Ion 106.15 (105.85 to 106.85): VU029280.D (-2536) (-)

Ion 91.15 (90.85 to 91.85): VU029280.D (-2536) (-)

9.37

60000

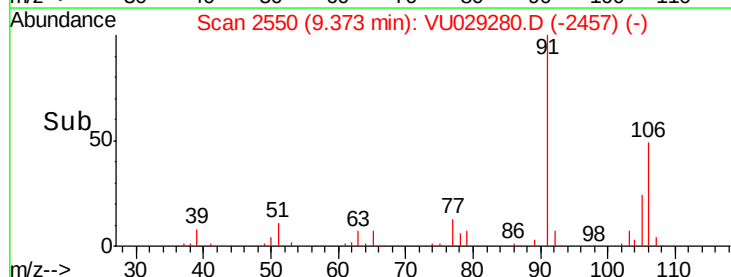
40000

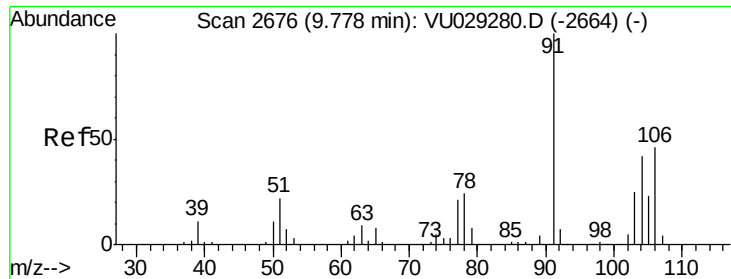
20000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 4.783 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

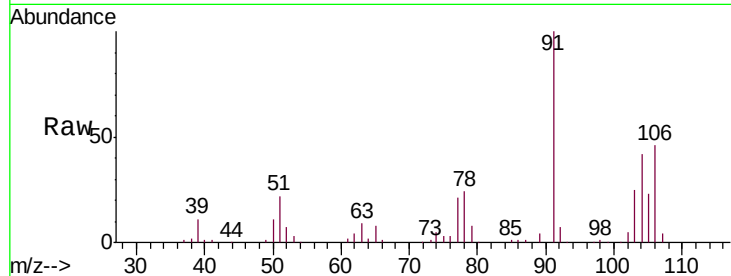
VSTD00544

Tgt Ion:106 Resp: 45753

Ion Ratio Lower Upper

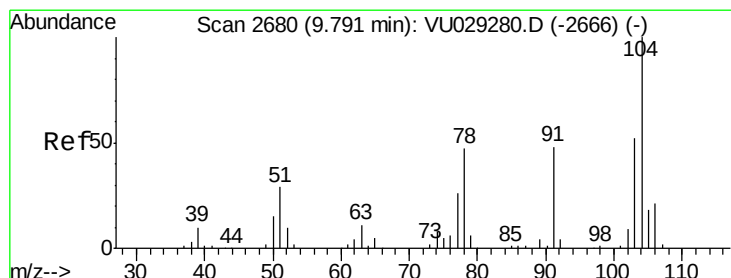
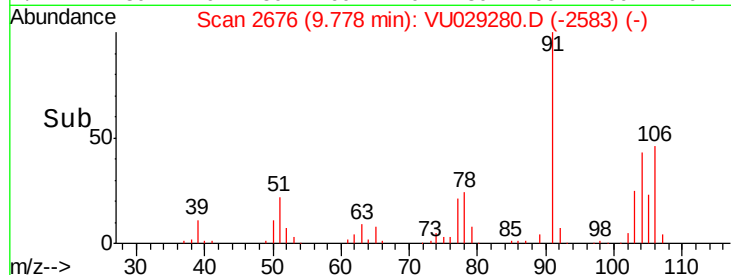
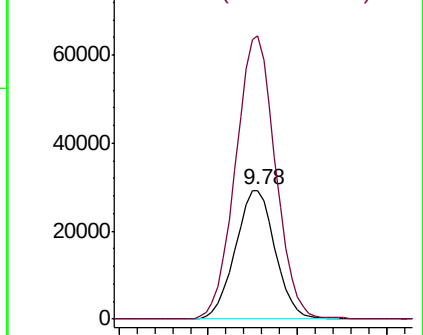
106 100

91 219.4 153.6 285.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.976 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VU029280.D

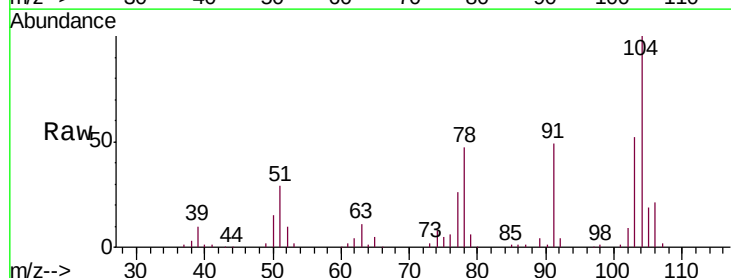
Acq: 25 Jan 2019 10:54

Tgt Ion:104 Resp: 82819

Ion Ratio Lower Upper

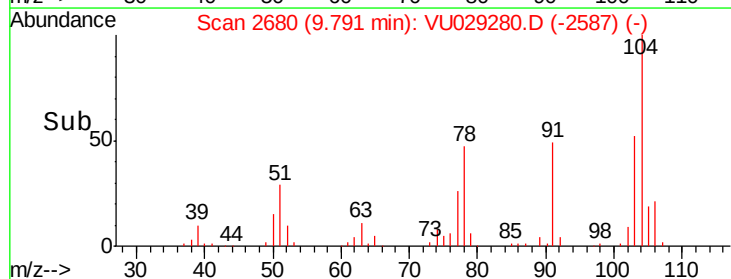
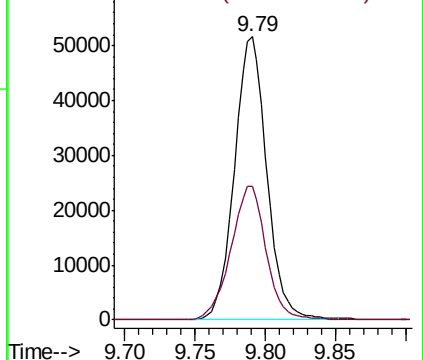
104 100

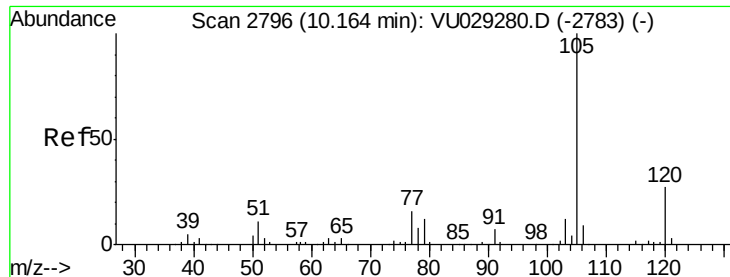
78 47.3 33.1 61.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.859 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampled :

VSTD00544

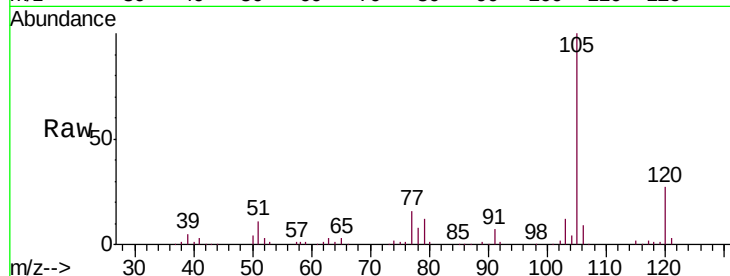
Tgt Ion: 105 Resp: 125225

Ion Ratio Lower Upper

105 100

120 26.1 20.9 31.3

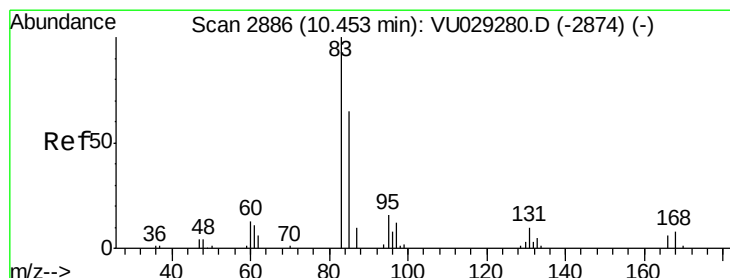
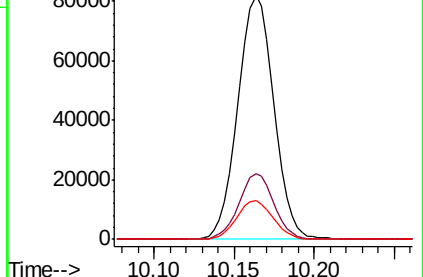
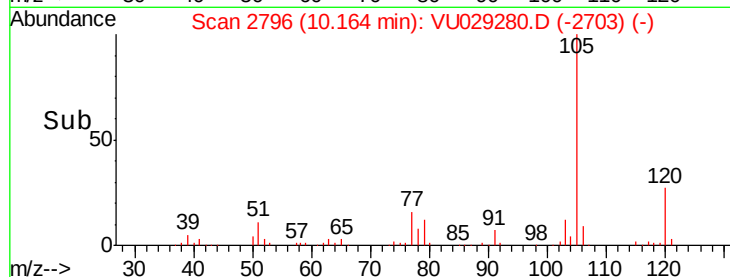
77 16.0 12.8 19.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.680 ug/L

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

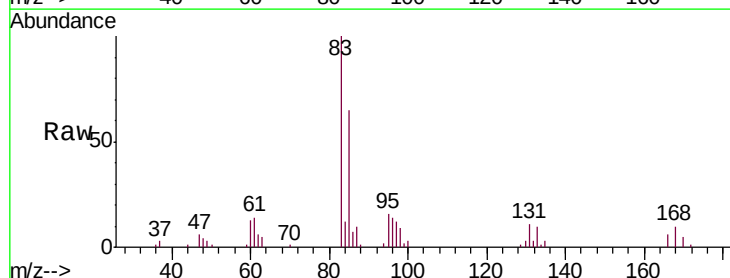
Tgt Ion: 83 Resp: 25863

Ion Ratio Lower Upper

83 100

85 65.4 45.8 85.0

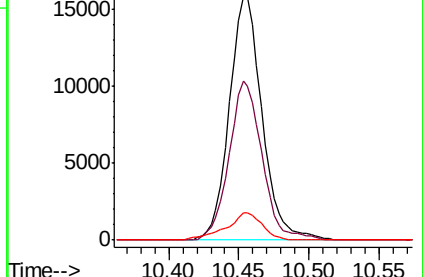
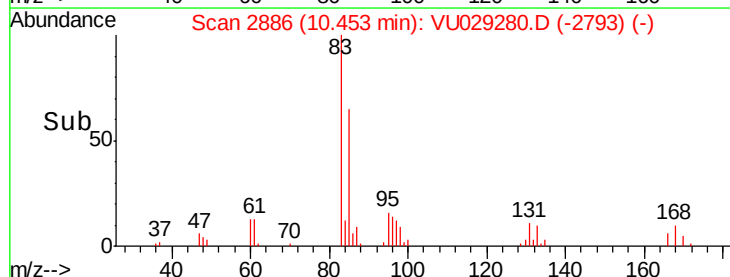
131 11.0 8.8 13.2

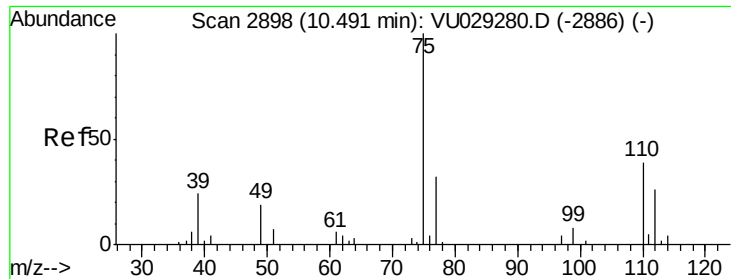


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

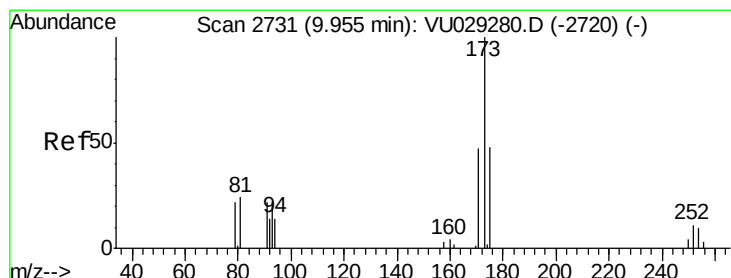
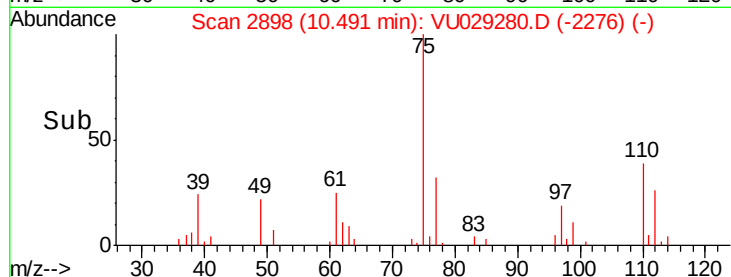
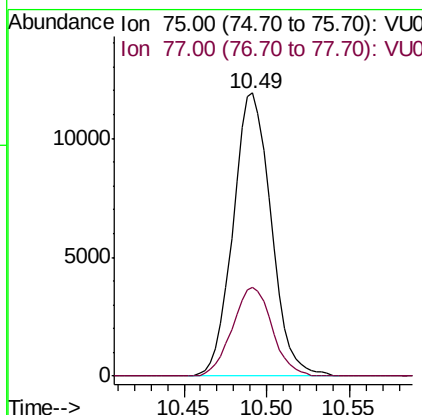
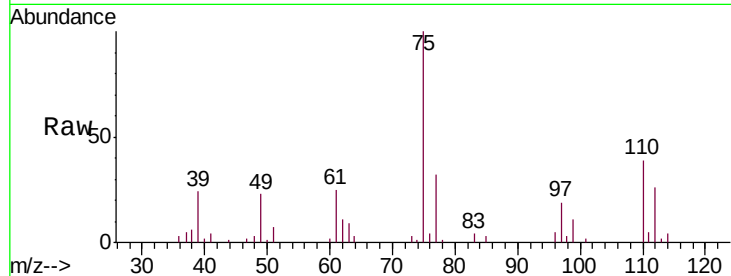




#59
 1,2,3-Trichloropropane
 Concen: 4.677 ug/L
 RT: 10.49 min Scan# 2898
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

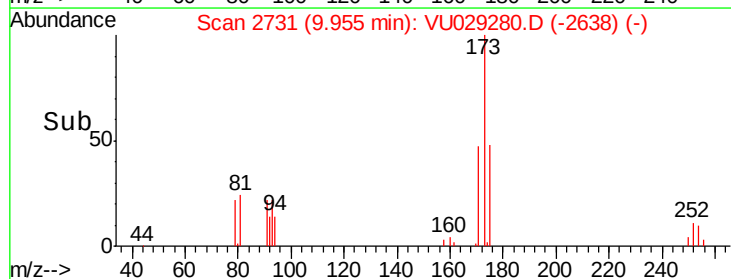
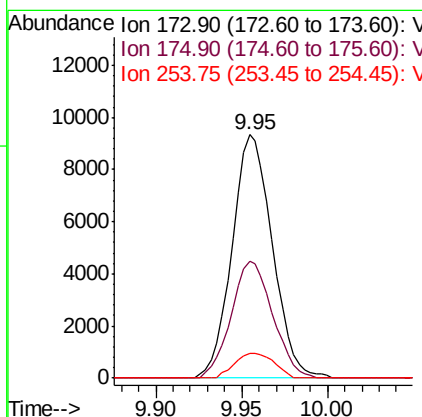
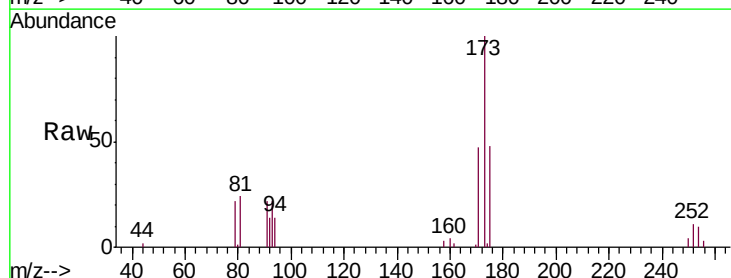
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00544

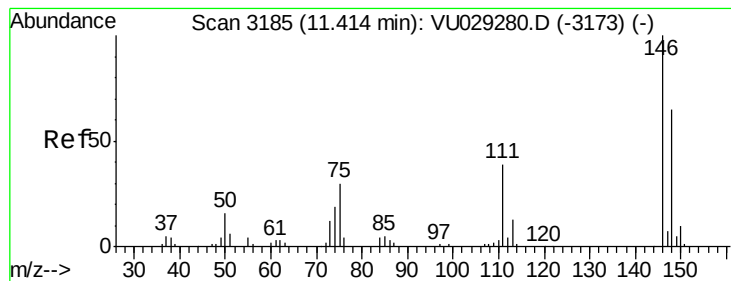
Tgt Ion: 75 Resp: 19006
 Ion Ratio Lower Upper
 75 100
 77 32.8 26.2 39.4



#61
 Bromoform
 Concen: 4.830 ug/L
 RT: 9.95 min Scan# 2731
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Tgt Ion: 173 Resp: 15262
 Ion Ratio Lower Upper
 173 100
 175 49.3 39.4 59.2
 254 9.9 7.9 11.9





#62

1,3-Dichlorobenzene

Concen: 4.833 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00544

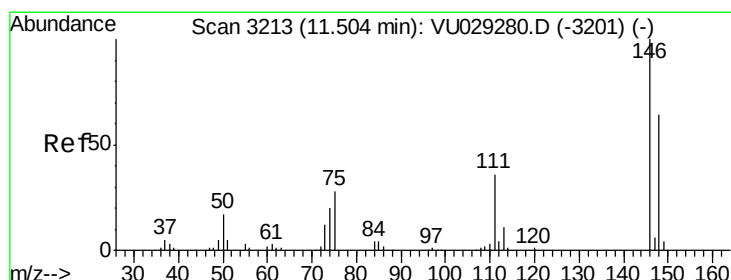
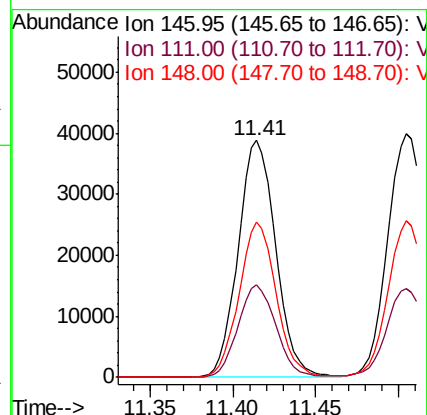
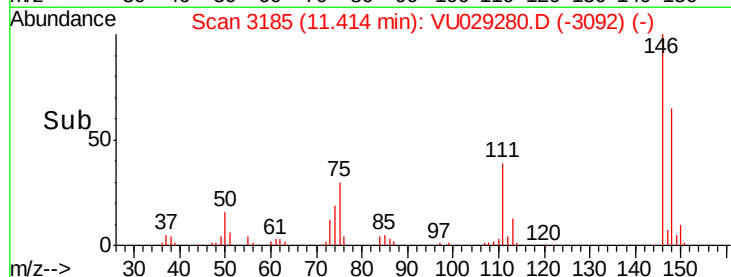
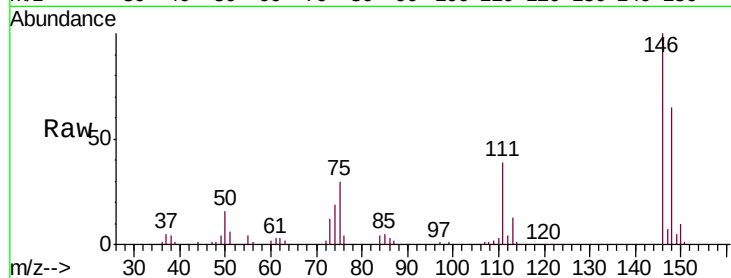
Tgt Ion:146 Resp: 61413

Ion Ratio Lower Upper

146 100

111 38.9 27.2 50.6

148 65.4 45.8 85.0



#63

1,4-Dichlorobenzene

Concen: 4.750 ug/L

RT: 11.50 min Scan# 3213

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

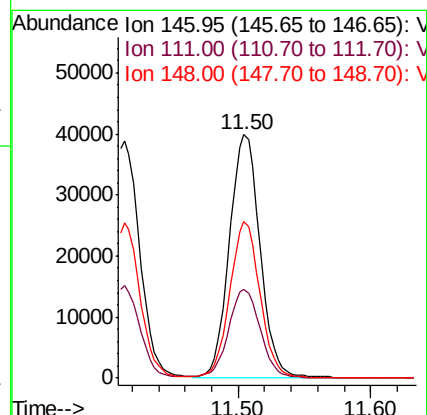
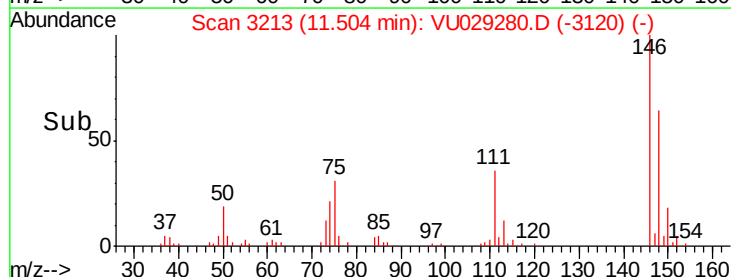
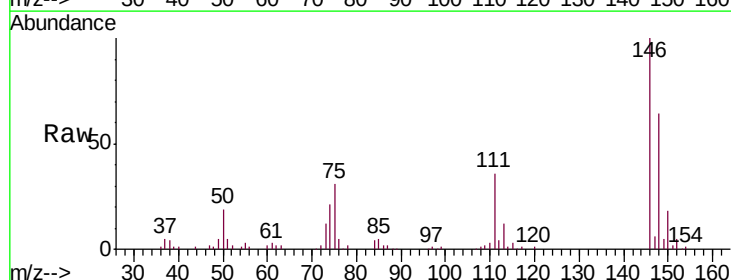
Tgt Ion:146 Resp: 64366

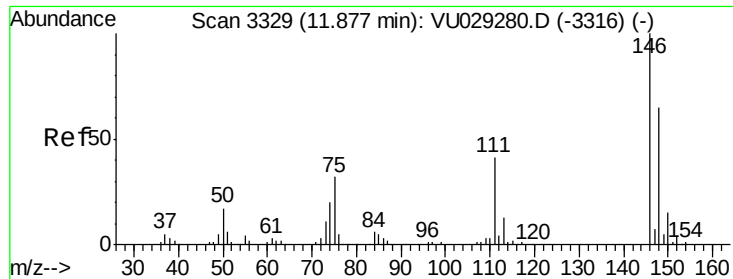
Ion Ratio Lower Upper

146 100

111 36.4 25.5 47.3

148 64.2 44.9 83.5





#65

1,2-Dichlorobenzene

Concen: 4.838 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00544

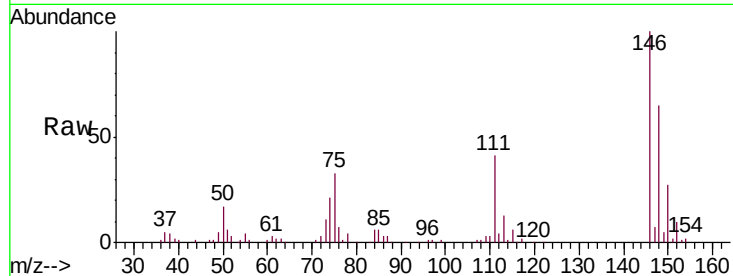
Tgt Ion:146 Resp: 60335

Ion Ratio Lower Upper

146 100

111 40.8 32.6 49.0

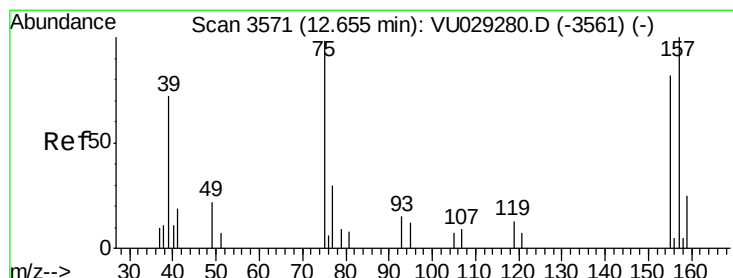
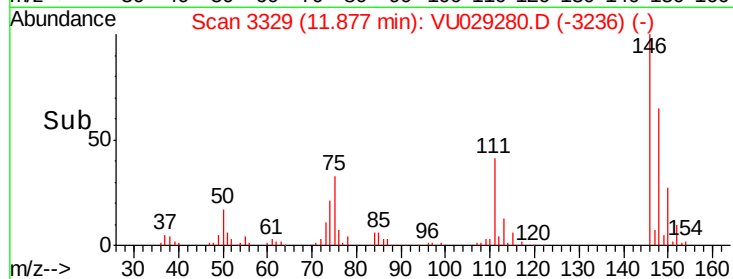
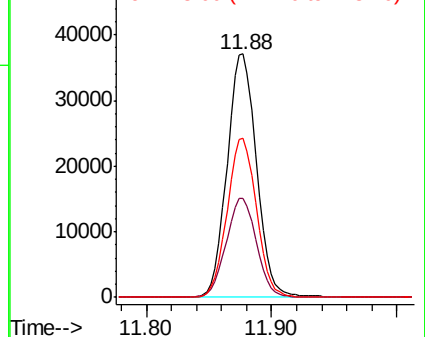
148 65.3 52.2 78.4



Abundance Ion 145.95 (145.65 to 146.65): 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: 5.010 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

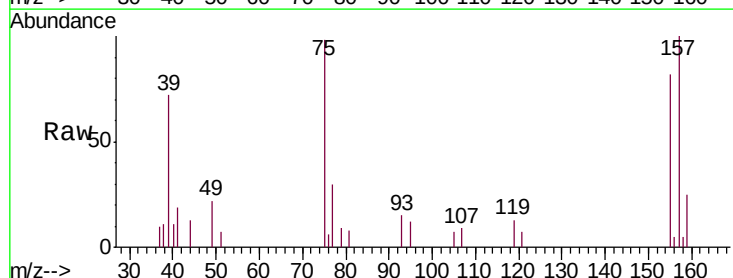
Tgt Ion: 75 Resp: 4446

Ion Ratio Lower Upper

75 100

155 83.3 66.6 100.0

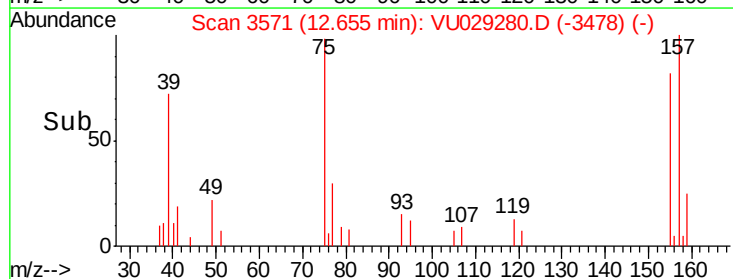
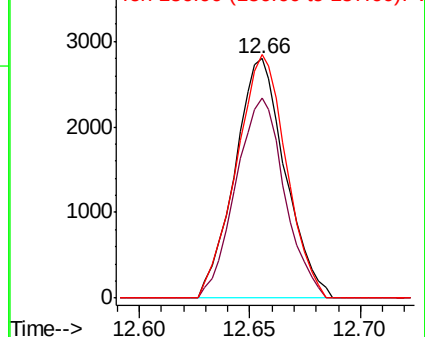
157 101.6 81.3 121.9

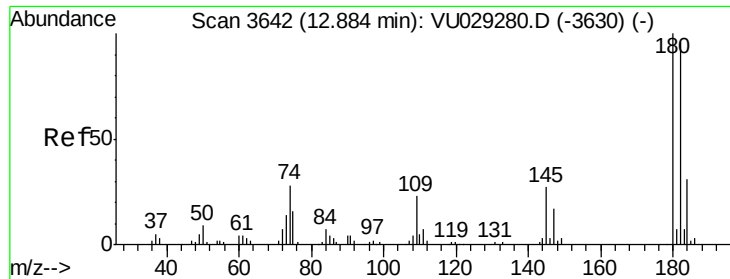


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

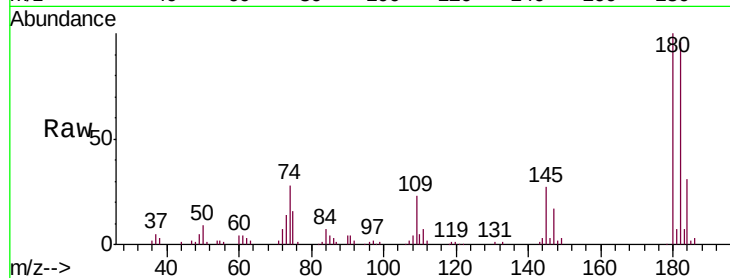




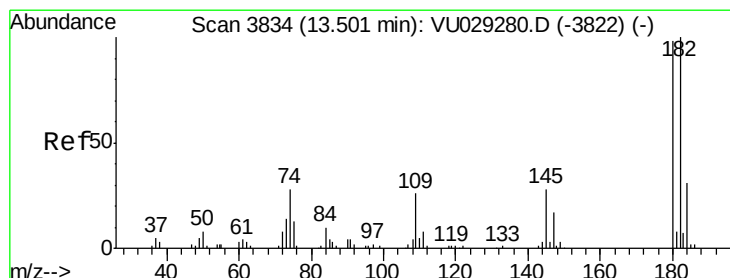
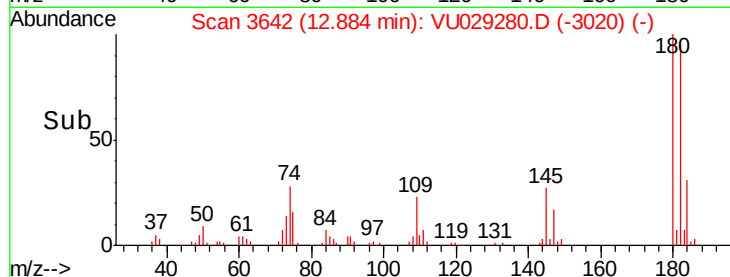
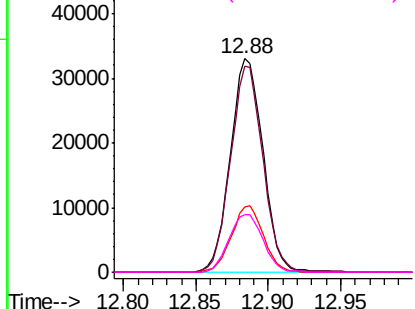
#67
 1,3,5-Trichlorobenzene
 Concen: 4.831 ug/L
 RT: 12.88 min Scan# 3642
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00544

Tgt Ion:180 Resp: 51739
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.1 114.1
 184 30.5 24.4 36.6
 145 28.0 22.4 33.6

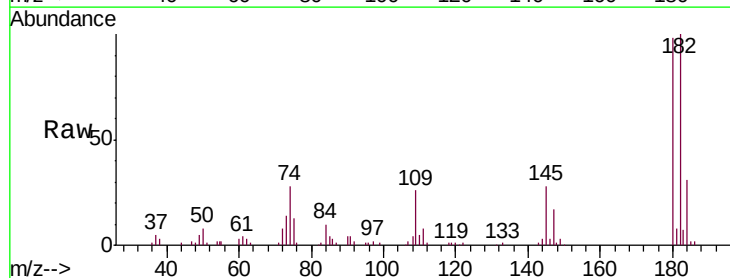


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

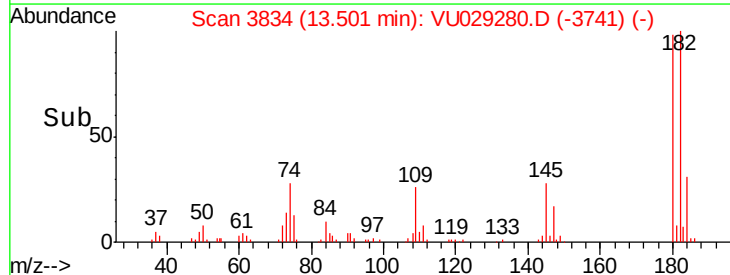
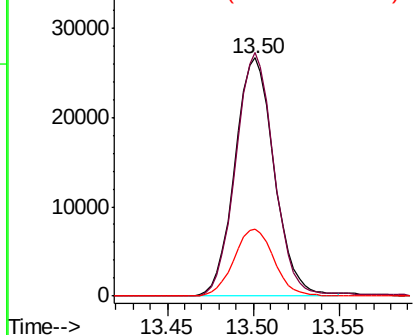


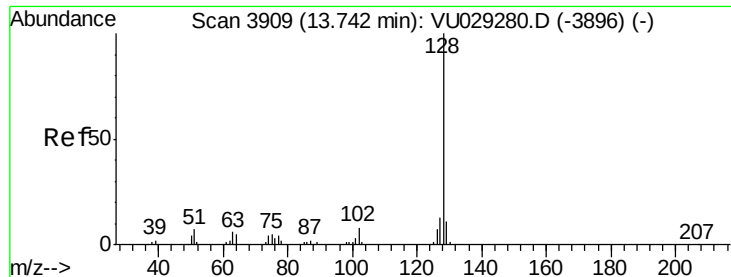
#68
 1,2,4-trichlorobenzene
 Concen: 4.755 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU029280.D
 Acq: 25 Jan 2019 10:54

Tgt Ion:180 Resp: 42633
 Ion Ratio Lower Upper
 180 100
 182 99.7 79.8 119.6
 145 28.3 22.6 34.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.788 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD00544

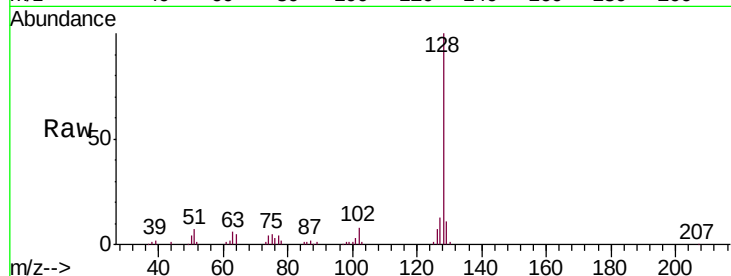
Tgt Ion:128 Resp: 67993

Ion Ratio Lower Upper

128 100

129 10.6 8.5 12.7

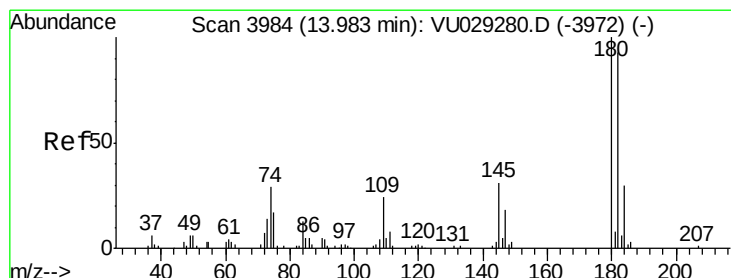
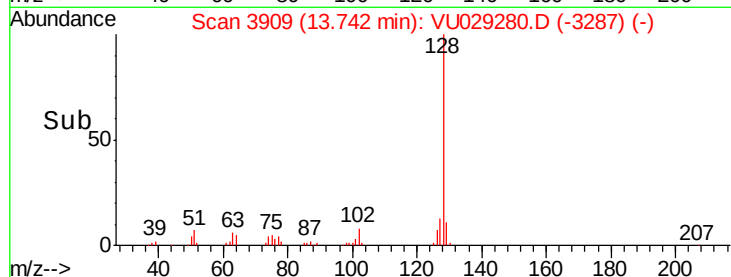
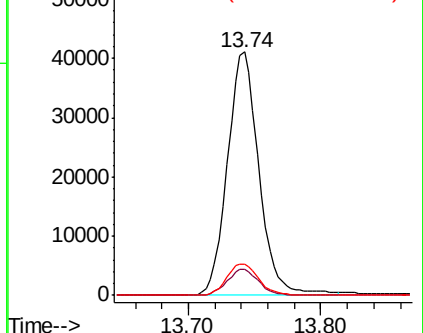
127 13.0 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.939 ug/L

RT: 13.98 min Scan# 3984

Delta R.T. 0.00 min

Lab File: VU029280.D

Acq: 25 Jan 2019 10:54

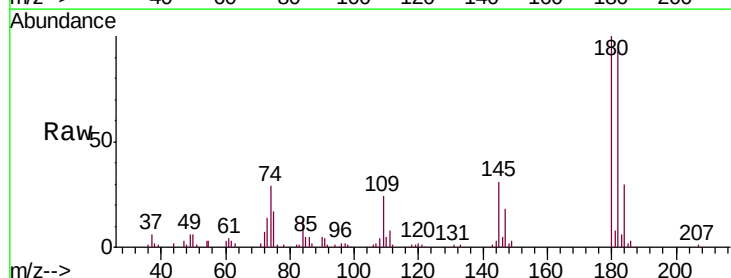
Tgt Ion:180 Resp: 41237

Ion Ratio Lower Upper

180 100

182 95.5 76.4 114.6

145 30.6 24.5 36.7



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

