

Data File : VU029589.D
Acq On : 21 Feb 2019 11:29
Operator : JC/SP
Sample : VSTD00548
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00548

Quant Time: Feb 22 02:42:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR022119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Feb 22 02:38:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	251419	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	251565	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	136309	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	83247	5.07	ug/L	0.00
7) Chloroethane-d5	1.68	69	78896	5.11	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	177856	5.04	ug/L	0.00
20) 2-Butanone-d5	4.19	46	195717	52.72	ug/L	0.00
24) Chloroform-d	4.65	84	147170	5.09	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	80380	5.14	ug/L	0.00
32) Benzene-d6	5.34	84	321213	4.98	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	94398	5.02	ug/L	0.00
41) Toluene-d8	7.56	98	320922	5.07	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	39641	5.14	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	193374	51.14	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	84249	4.99	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	136430	5.09	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	98619	5.025	ug/L 100
3) Chloromethane	1.33	50	82406	4.858	ug/L 100
5) Vinyl chloride	1.40	62	106003	4.944	ug/L 100
6) Bromomethane	1.63	94	57147	4.814	ug/L 100
8) Chloroethane	1.70	64	68820	4.954	ug/L 100
9) Trichlorofluoromethane	1.88	101	156508	4.922	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	98969	5.044	ug/L 100
12) 1,1-Dichloroethene	2.28	96	93106	4.992	ug/L 100
13) Acetone	2.32	43	134102	50.281	ug/L 100
14) Carbon disulfide	2.48	76	304842	4.976	ug/L 100
15) Methyl Acetate	2.62	43	37862	4.866	ug/L 100
16) Methylene chloride	2.70	84	101649	4.608	ug/L 100
17) Methyl tert-butyl Ether	3.00	73	224553	5.035	ug/L 100
18) trans-1,2-Dichloroethene	2.98	96	100986	4.975	ug/L 100
19) 1,1-Dichloroethane	3.44	63	148527	4.700	ug/L 100
21) 2-Butanone	4.28	43	189763	51.279	ug/L 100
22) cis-1,2-Dichloroethene	4.22	96	93434	5.026	ug/L 100
23) Bromochloromethane	4.55	128	42878	5.112	ug/L 100
25) Chloroform	4.67	83	159295	5.035	ug/L 100
27) 1,2-Dichloroethane	5.40	62	93163	4.986	ug/L 100
29) 1,1,1-Trichloroethane	4.91	97	129937	4.969	ug/L 100
30) Cyclohexane	4.99	56	128259	4.956	ug/L 100
31) Carbon tetrachloride	5.13	117	115018	5.054	ug/L 100
33) Benzene	5.39	78	329879	4.962	ug/L 100
34) Trichloroethene	6.18	95	92568	4.988	ug/L 100
35) Methylcyclohexane	6.41	83	148332	4.928	ug/L 100
37) 1,2-Dichloropropane	6.43	63	83570	4.990	ug/L 100
38) Bromodichloromethane	6.76	83	104401	4.994	ug/L 100
39) cis-1,3-Dichloropropene	7.27	75	123642	5.044	ug/L 100
40) 4-Methyl-2-pentanone	7.46	43	471969	50.141	ug/L 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	377282	5.003	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	98660	5.014	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	63849	4.869	ug/L	100
47) Tetrachloroethene	8.22	164	86083	4.995	ug/L	100
48) 2-Hexanone	8.36	43	342093	49.694	ug/L	100
49) Dibromochloromethane	8.48	129	79436	5.000	ug/L	100
50) 1,2-Dibromoethane	8.58	107	64374	5.014	ug/L	100
51) Chlorobenzene	9.12	112	257266	4.966	ug/L	100
52) Ethylbenzene	9.25	91	422027	5.004	ug/L	100
53) m,p-xylene	9.37	106	166633	4.928	ug/L	100
54) o-xylene	9.78	106	163377	5.018	ug/L	100
55) Styrene	9.79	104	271024	4.983	ug/L	100
56) Isopropylbenzene	10.16	105	435656	4.986	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	79758	4.934	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	55087	4.926	ug/L	100
61) Bromoform	9.95	173	44793	4.955	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	217824	5.033	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	216717	4.938	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	205664	4.923	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	12668	5.158	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	172459	4.948	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	148963	5.058	ug/L	100
69) Naphthalene	13.74	128	233779	5.135	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	137119	4.972	ug/L	100

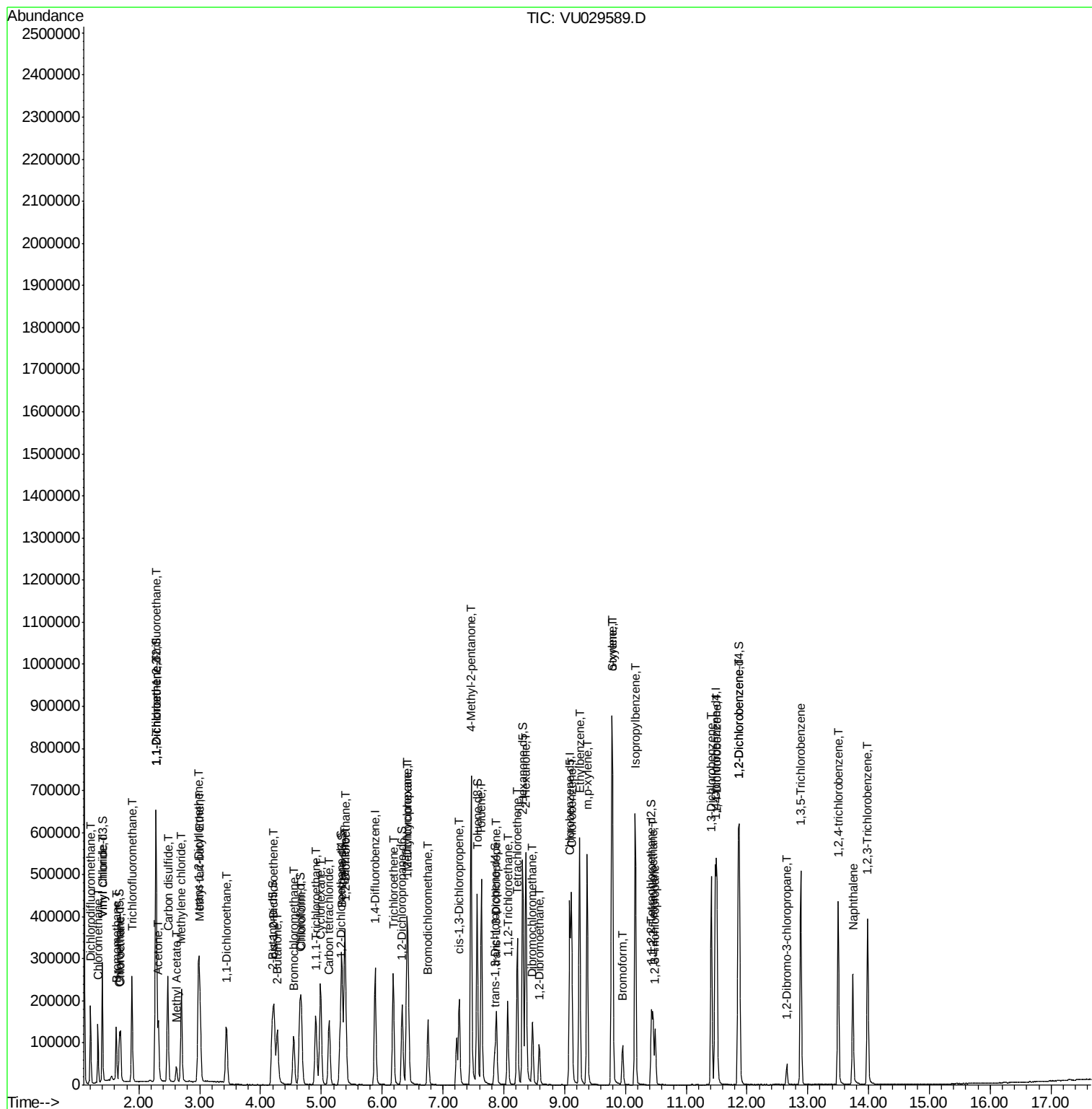
(#) = qualifier out of range (m) = manual integration (+) = signals summed

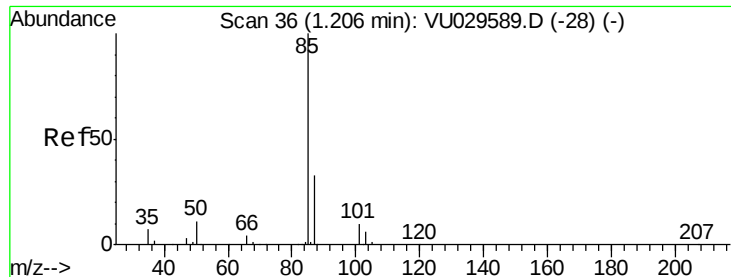
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#2

Dichlorodifluoromethane

Concen: 5.025 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

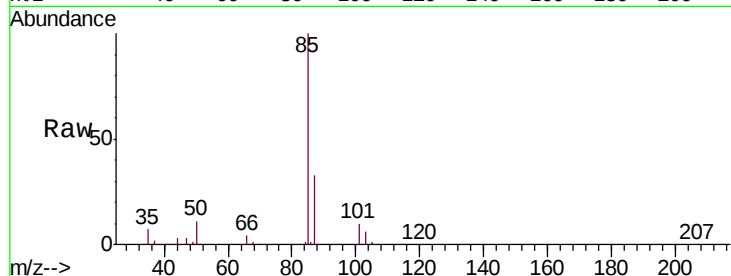
VSTD00548

Tgt Ion: 85 Resp: 98619

Ion Ratio Lower Upper

85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU029589.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU029589.D (-28) (-)

1.21

100000

80000

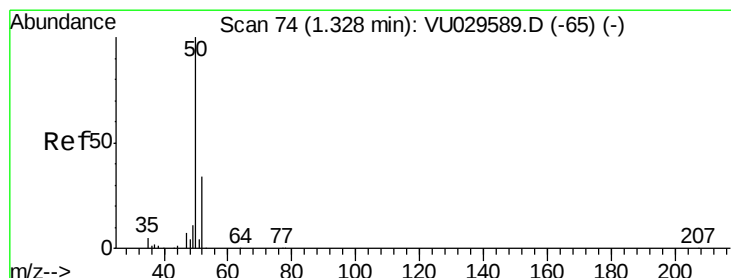
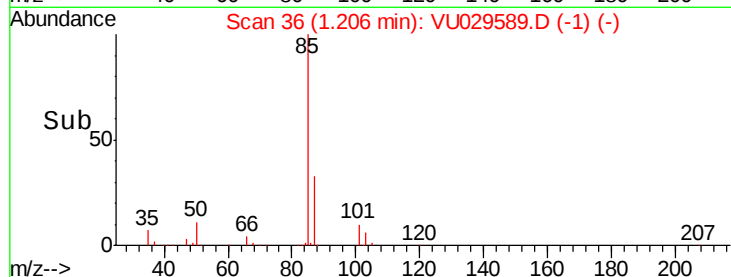
60000

40000

20000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 4.858 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029589.D

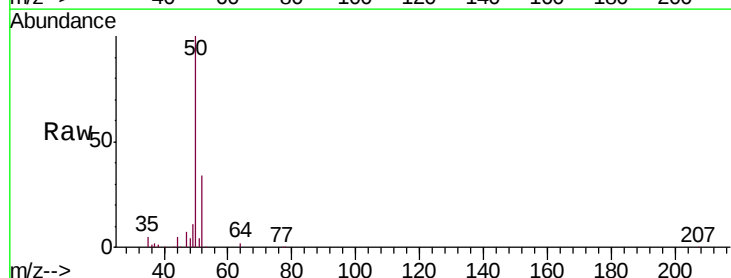
Acq: 21 Feb 2019 11:29

Tgt Ion: 50 Resp: 82406

Ion Ratio Lower Upper

50 100

52 33.6 23.5 43.7



Abundance Ion 50.05 (49.75 to 50.75): VU029589.D (-65) (-)

Ion 52.05 (51.75 to 52.75): VU029589.D (-65) (-)

1.33

80000

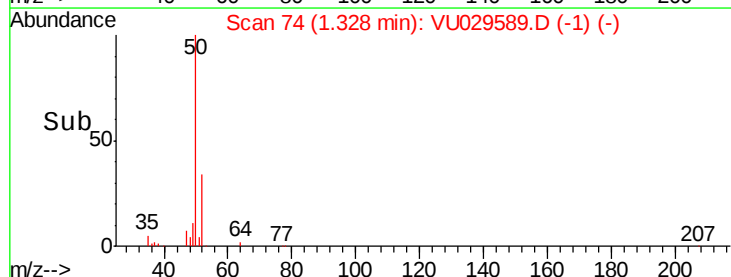
60000

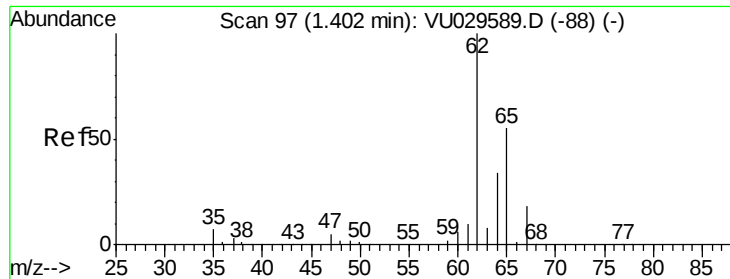
40000

20000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 4.944 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

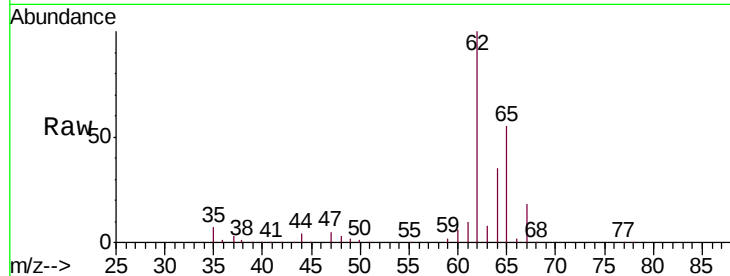
VSTD00548

Tgt Ion: 62 Resp: 106003

Ion Ratio Lower Upper

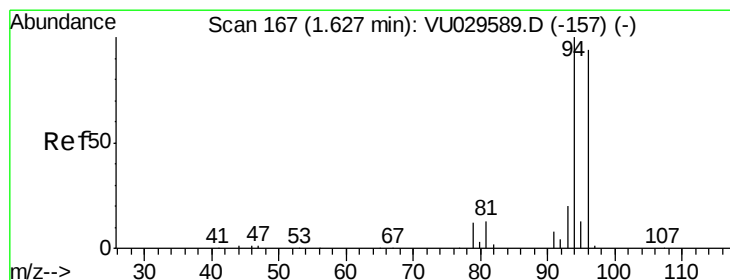
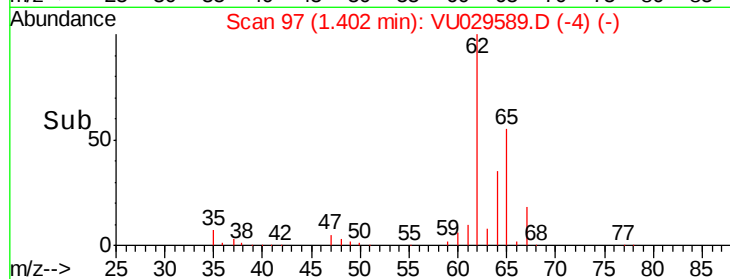
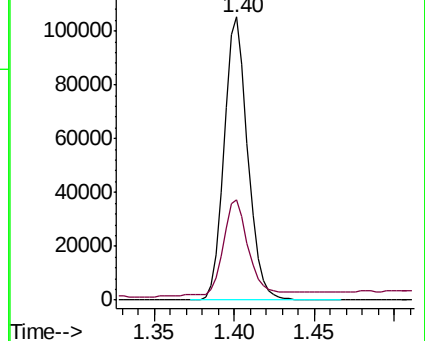
62 100

64 35.5 24.8 46.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.814 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU029589.D

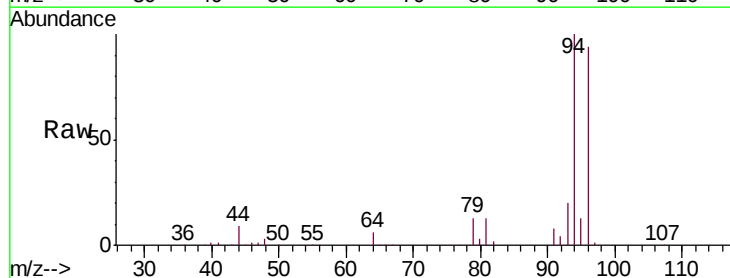
Acq: 21 Feb 2019 11:29

Tgt Ion: 94 Resp: 57147

Ion Ratio Lower Upper

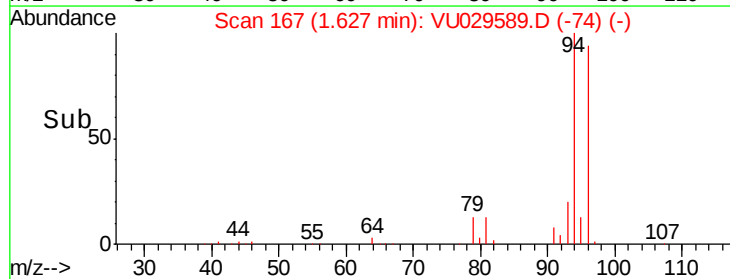
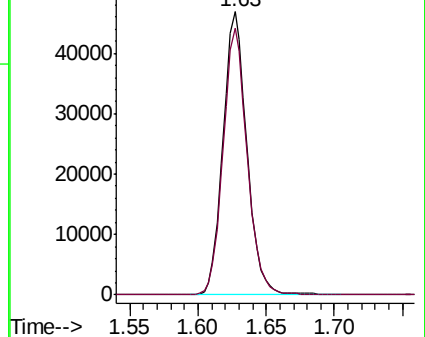
94 100

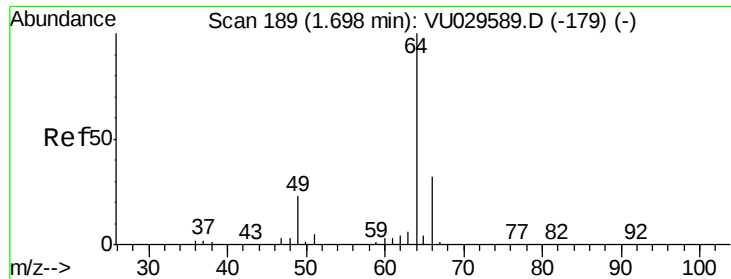
96 94.3 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

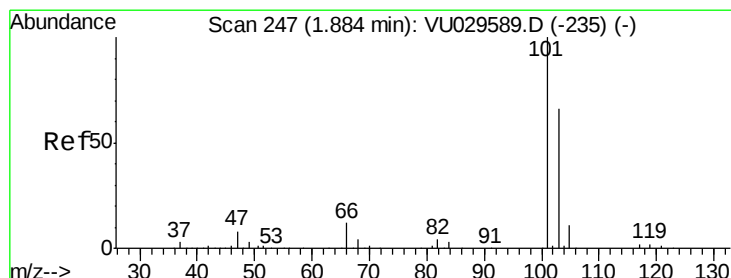
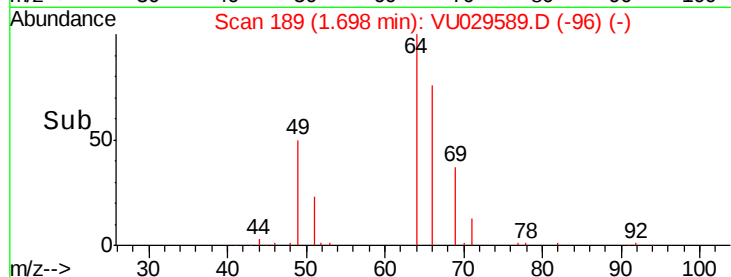
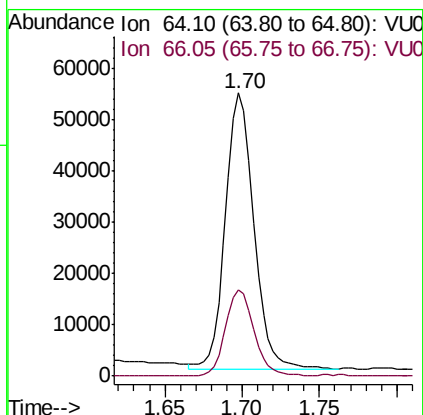
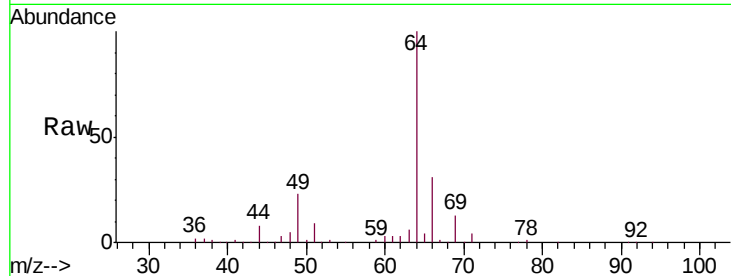




#8
Chloroethane
Concen: 4.954 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

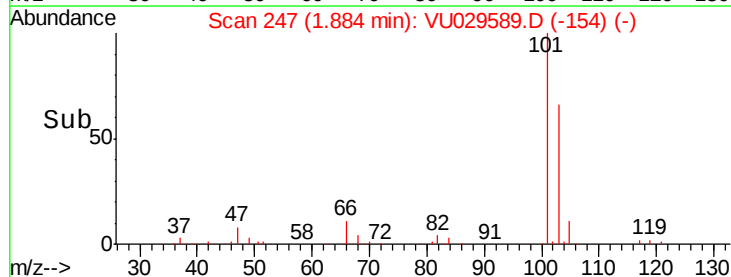
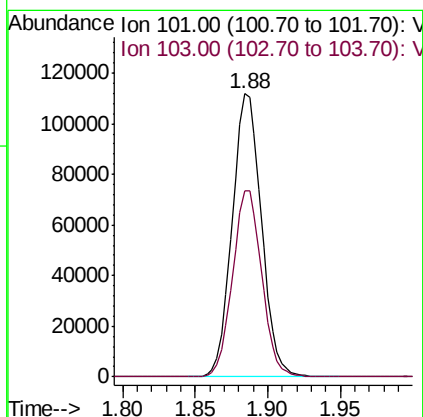
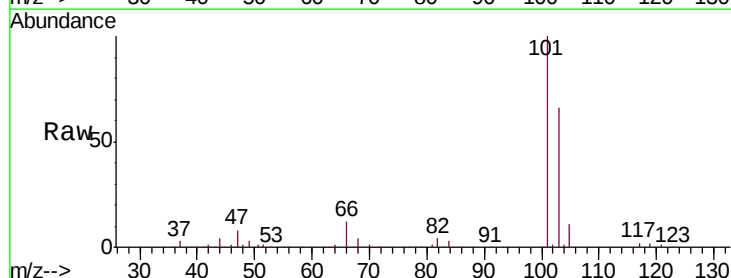
Instrument :
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ClientSampleId :
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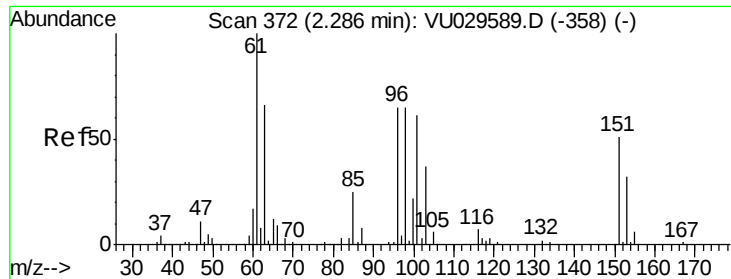
Tgt Ion: 64 Resp: 68820
Ion Ratio Lower Upper
64 100
66 30.6 21.4 39.8



#9
Trichlorofluoromethane
Concen: 4.922 ug/L
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Tgt Ion: 101 Resp: 156508
Ion Ratio Lower Upper
101 100
103 65.6 52.5 78.7





#10

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

Concen: 5.044 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00548

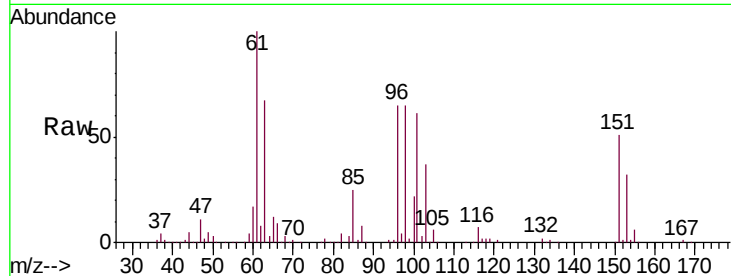
Tgt Ion:101 Resp: 98969

Ion Ratio Lower Upper

101 100

85 41.0 32.8 49.2

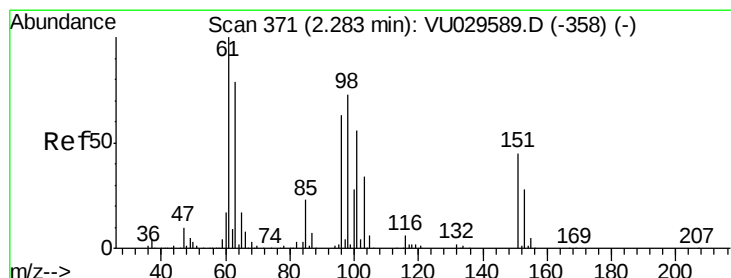
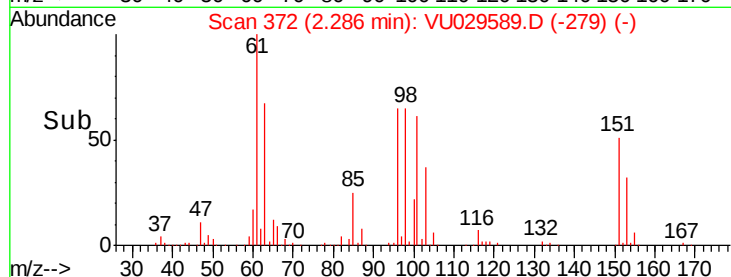
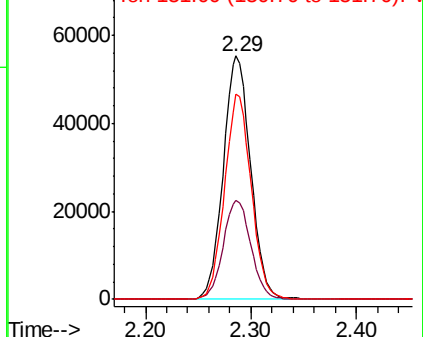
151 82.4 65.9 98.9



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: 4.992 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

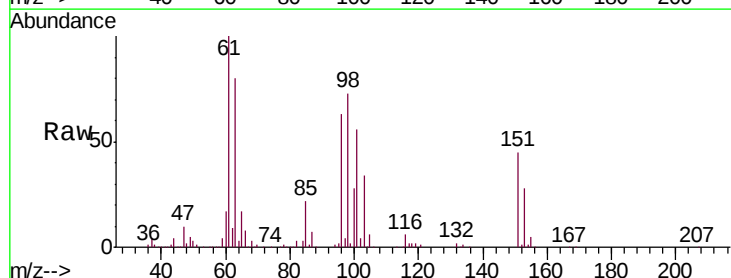
Tgt Ion: 96 Resp: 93106

Ion Ratio Lower Upper

96 100

61 159.0 111.3 206.7

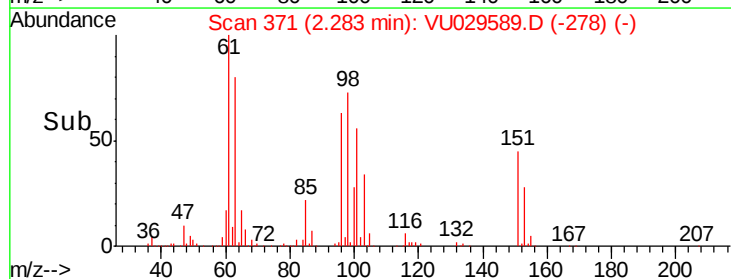
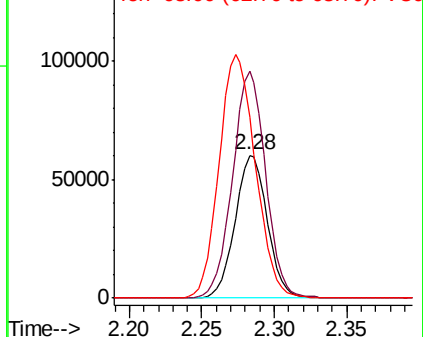
63 126.4 88.5 164.3

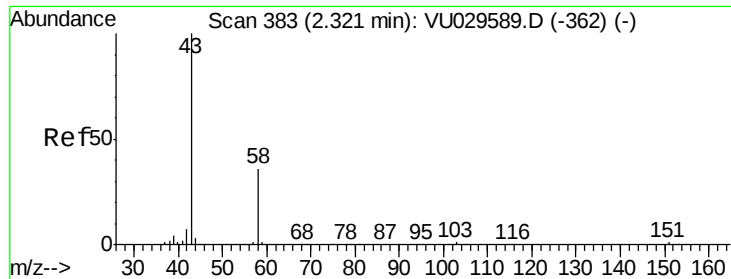


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 50.281 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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ClientSampleId :

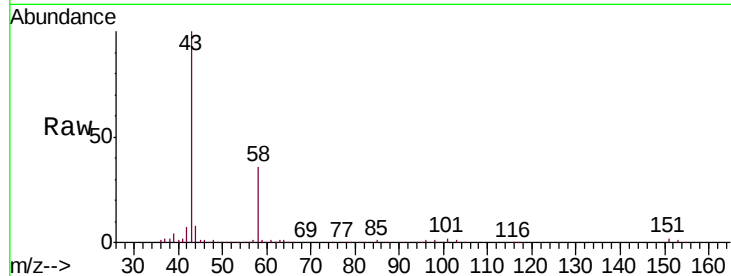
VSTD00548

Tgt Ion: 43 Resp: 134102

Ion Ratio Lower Upper

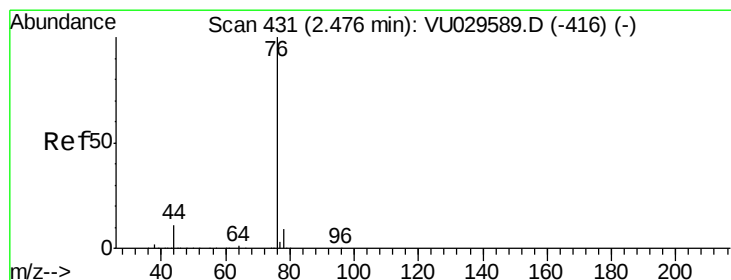
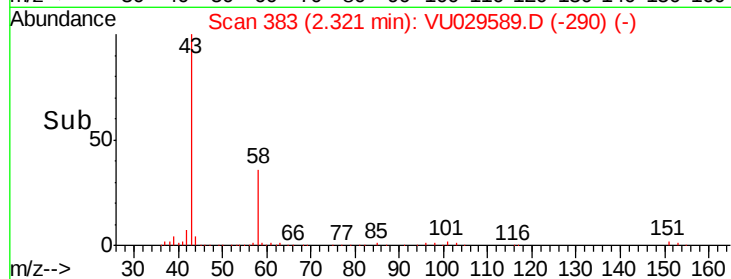
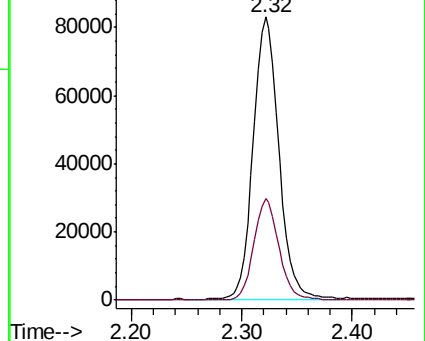
43 100

58 35.1 0.0 70.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.976 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029589.D

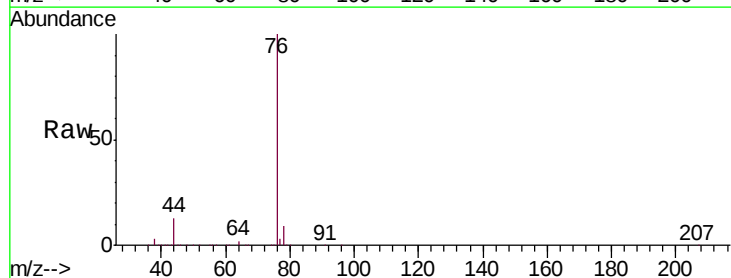
Acq: 21 Feb 2019 11:29

Tgt Ion: 76 Resp: 304842

Ion Ratio Lower Upper

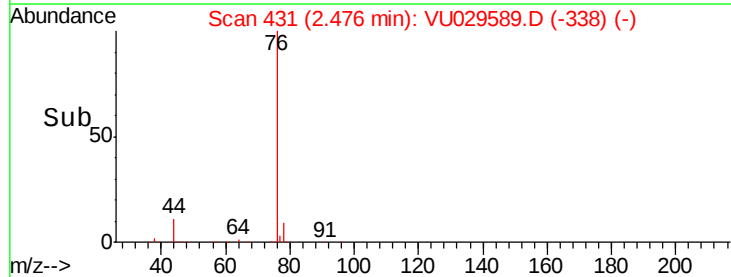
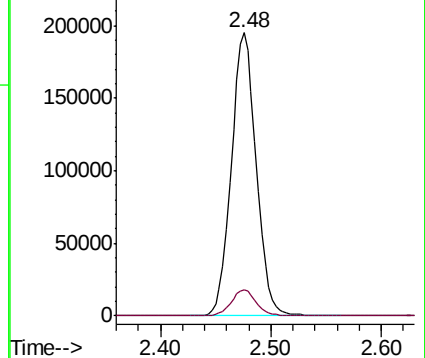
76 100

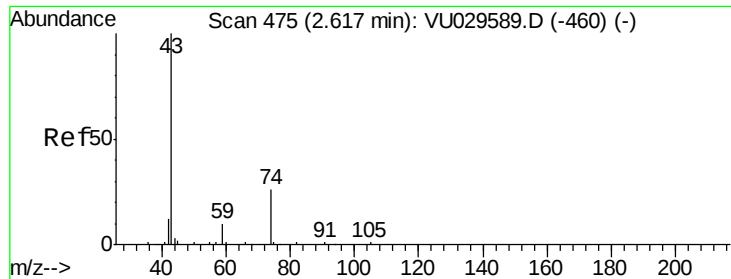
78 9.2 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

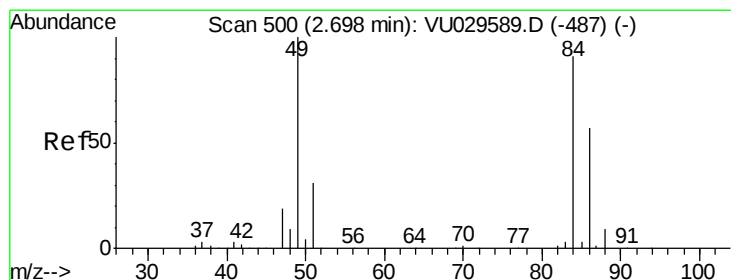
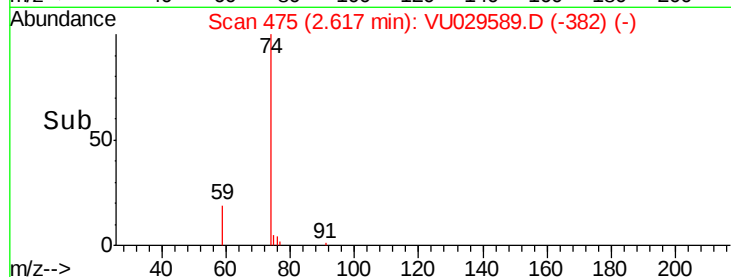
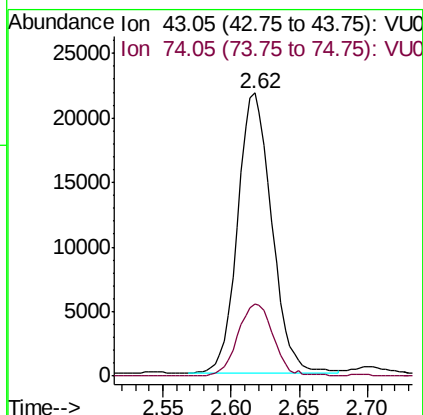
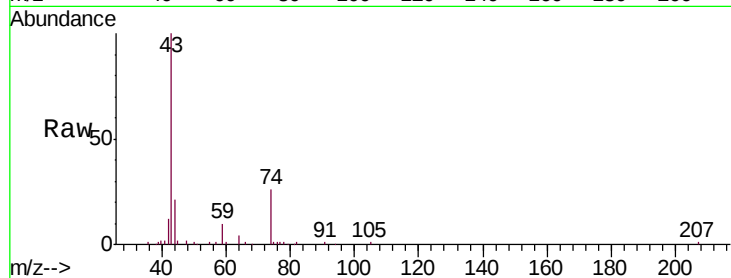




#15
Methyl Acetate
Concen: 4.866 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

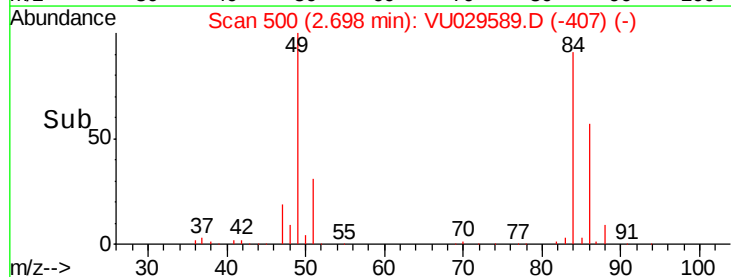
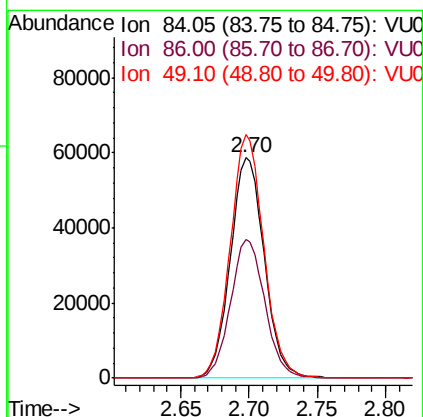
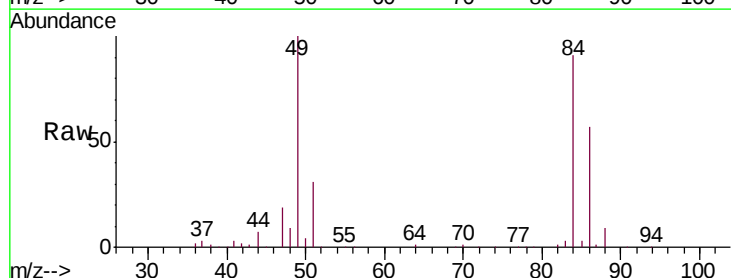
Instrument :
MSVOA_U
ClientSampleId :
VSTD00548

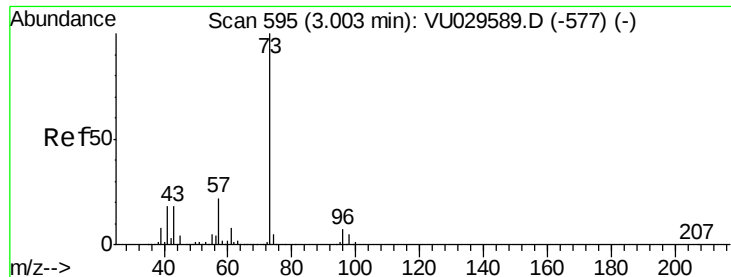
Tgt Ion: 43 Resp: 37862
Ion Ratio Lower Upper
43 100
74 27.0 21.6 32.4



#16
Methylene chloride
Concen: 4.608 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Tgt Ion: 84 Resp: 101649
Ion Ratio Lower Upper
84 100
86 63.1 44.2 82.0
49 110.4 77.3 143.5

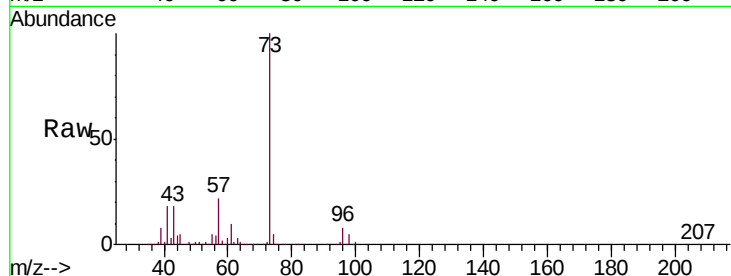




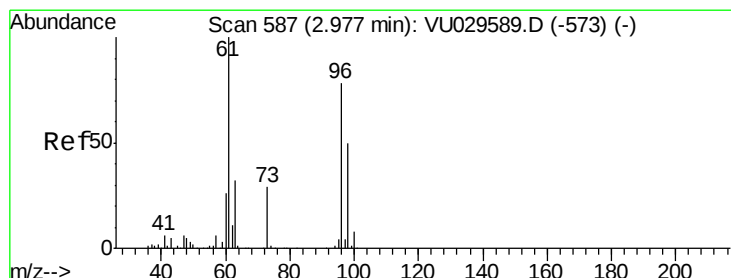
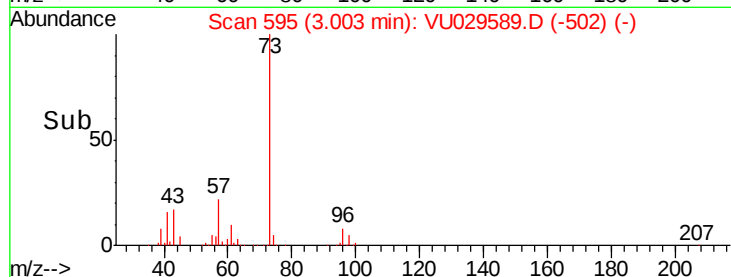
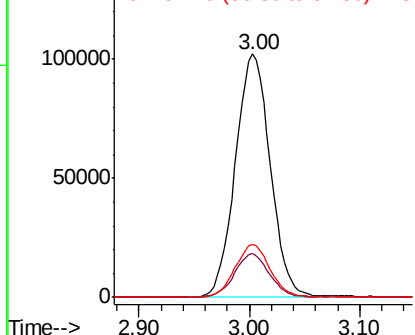
#17
Methyl tert-butyl Ether
Concen: 5.035 ug/L
RT: 3.00 min Scan# 595
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD00548

Tgt Ion	Ratio	Lower	Upper
73	100		
43	17.3	13.8	20.8
57	21.8	17.4	26.2

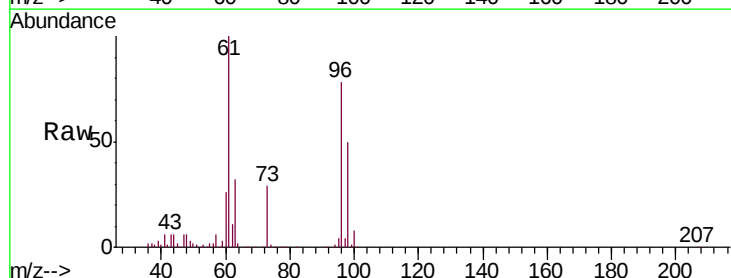


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

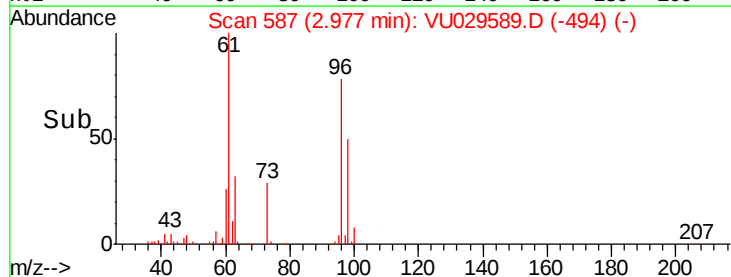
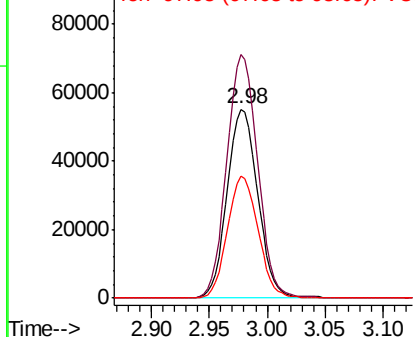


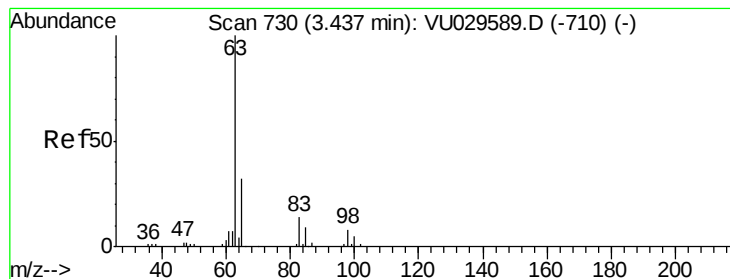
#18
trans-1,2-Dichloroethene
Concen: 4.975 ug/L
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.0	90.3	167.7
98	64.6	45.2	84.0



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: 4.700 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00548

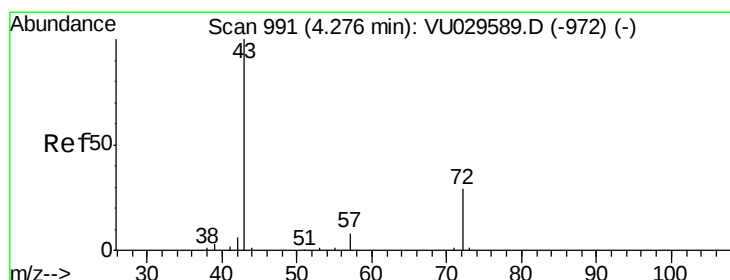
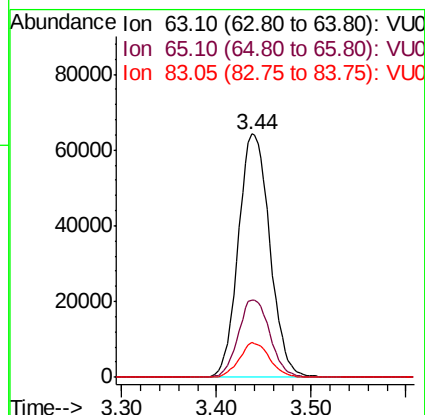
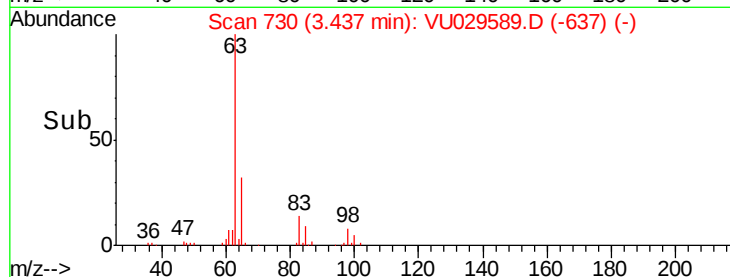
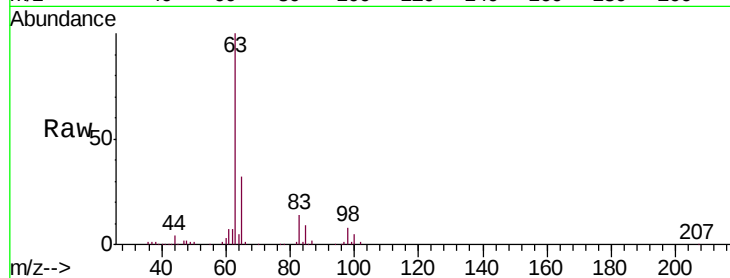
Tgt Ion: 63 Resp: 148527

Ion Ratio Lower Upper

63 100

65 31.9 22.3 41.5

83 14.2 9.9 18.5



#21

2-Butanone

Concen: 51.279 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VU029589.D

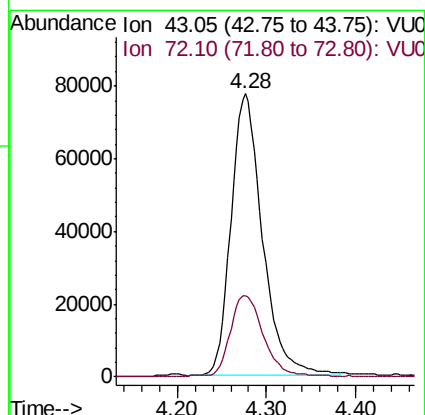
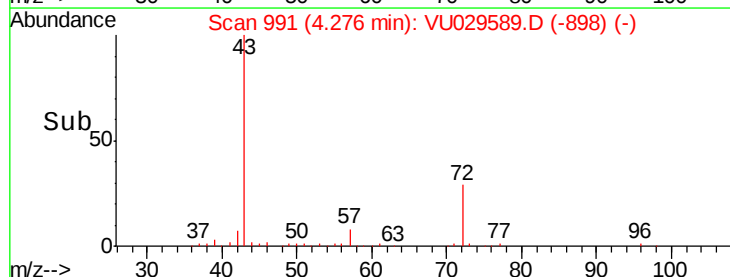
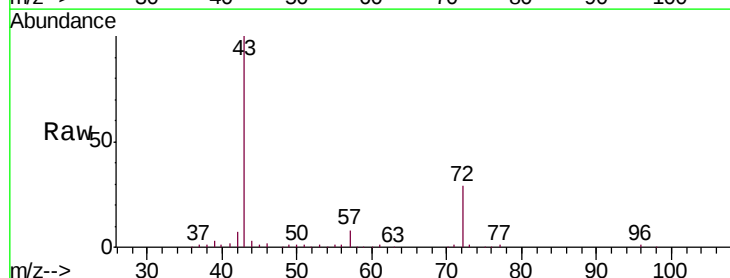
Acq: 21 Feb 2019 11:29

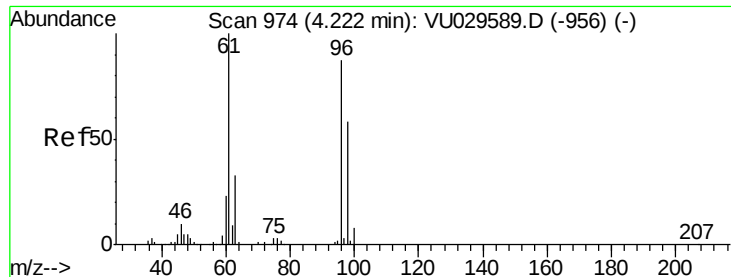
Tgt Ion: 43 Resp: 189763

Ion Ratio Lower Upper

43 100

72 30.9 15.4 46.4



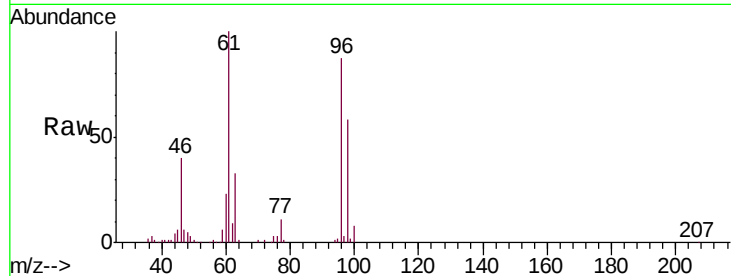


#22

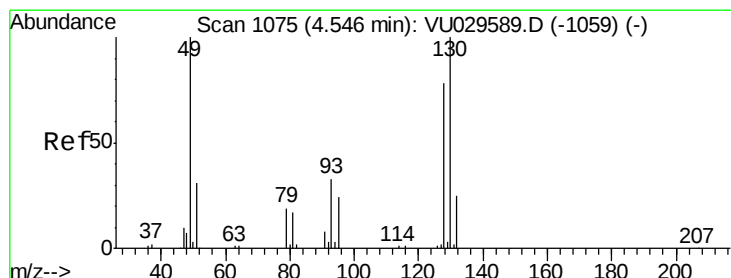
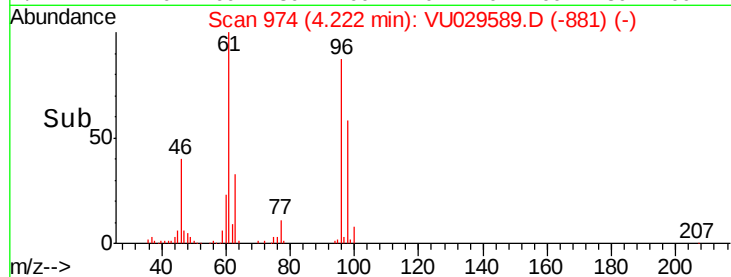
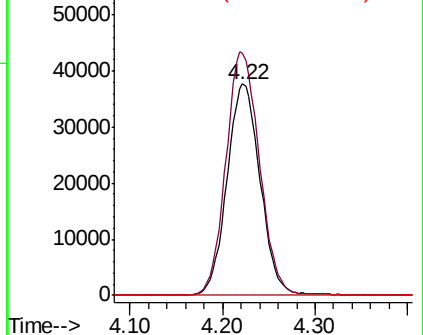
cis-1,2-Dichloroethene
Concen: 5.026 ug/L
RT: 4.22 min Scan# 974
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD00548

Tgt Ion: 96 Resp: 93434
Ion Ratio Lower Upper
96 100
61 114.6 80.2 149.0
68 0.0 0.0 0.0



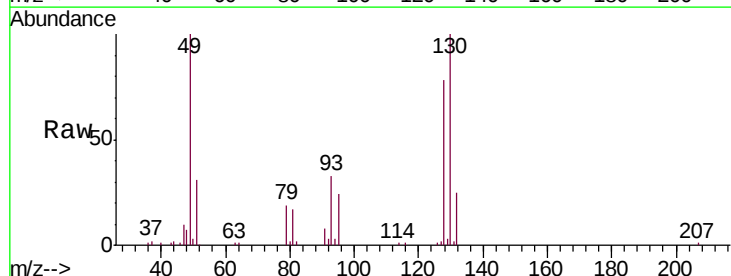
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



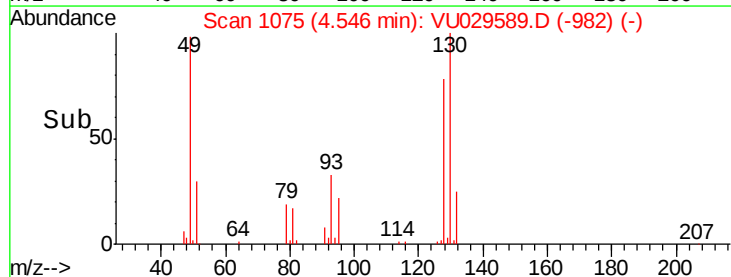
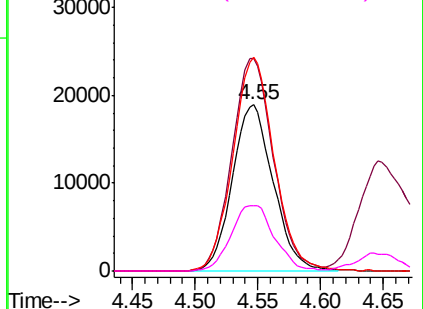
#23

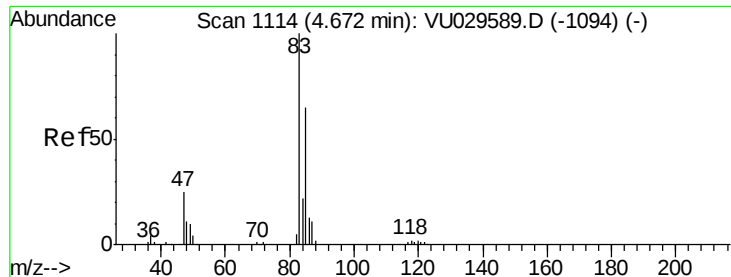
Bromochloromethane
Concen: 5.112 ug/L
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Tgt Ion: 128 Resp: 42878
Ion Ratio Lower Upper
128 100
49 128.0 89.6 166.4
130 128.7 90.1 167.3
51 39.5 31.6 47.4



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

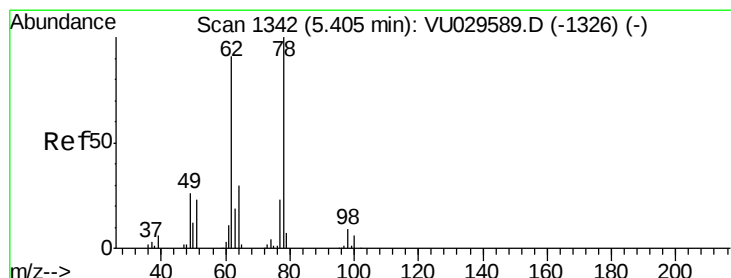
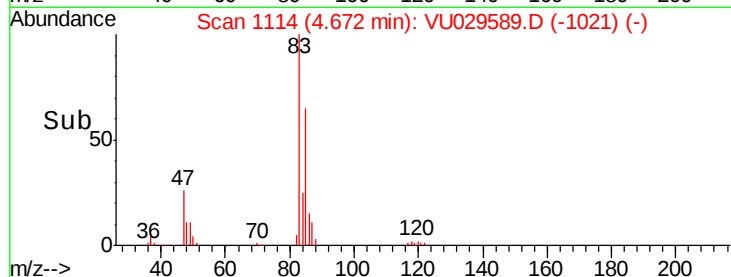
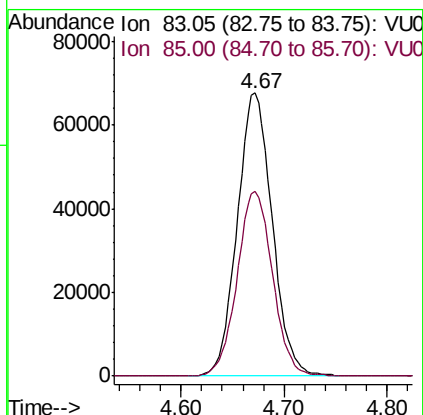
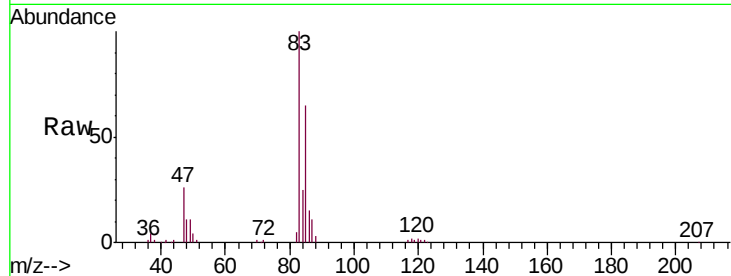




#25
Chloroform
Concen: 5.035 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

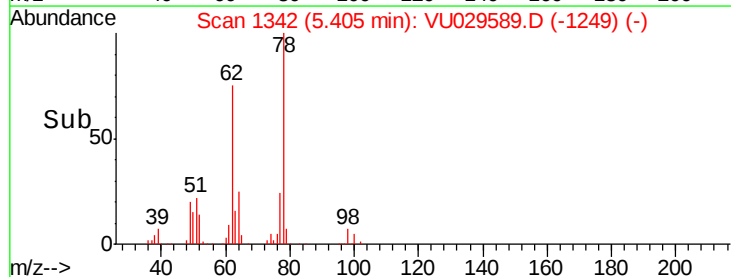
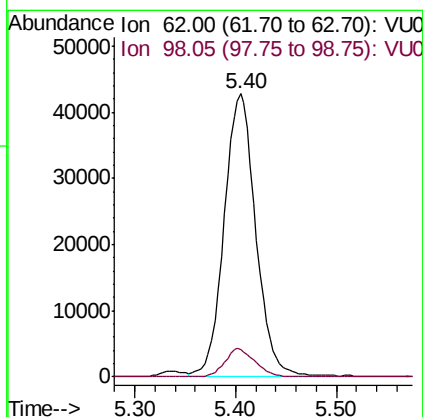
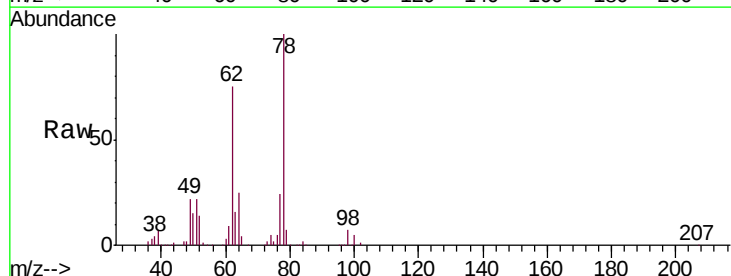
Instrument :
MSVOA_U
ClientSampleId :
VSTD00548

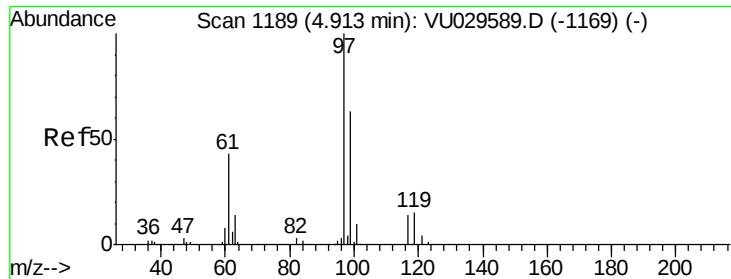
Tgt Ion: 83 Resp: 159295
Ion Ratio Lower Upper
83 100
85 65.1 45.6 84.6



#27
1,2-Dichloroethane
Concen: 4.986 ug/L
RT: 5.40 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Tgt Ion: 62 Resp: 93163
Ion Ratio Lower Upper
62 100
98 9.5 7.6 11.4

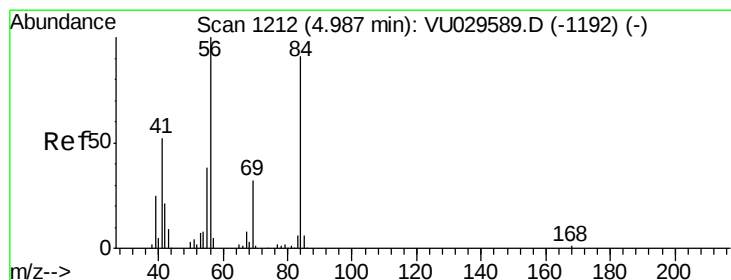
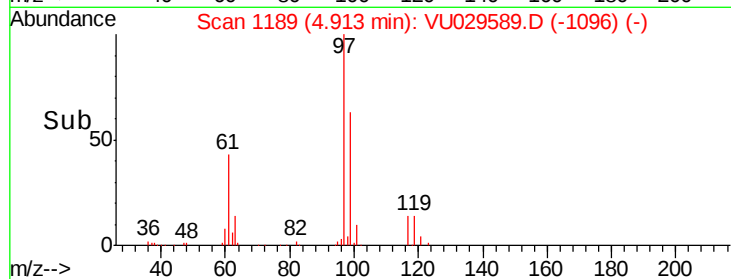
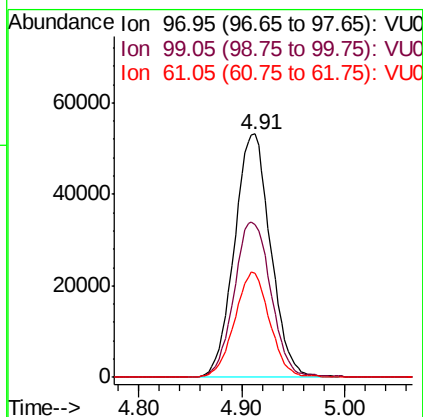
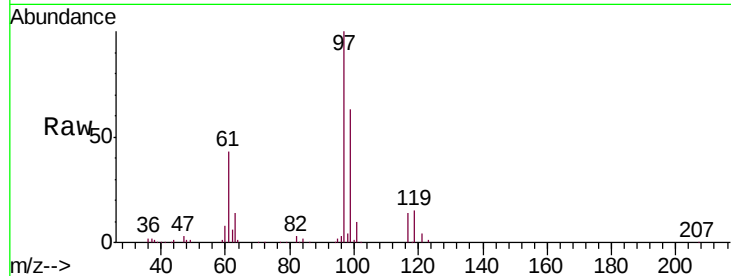




#29
 1,1,1-Trichloroethane
 Concen: 4.969 ug/L
 RT: 4.91 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

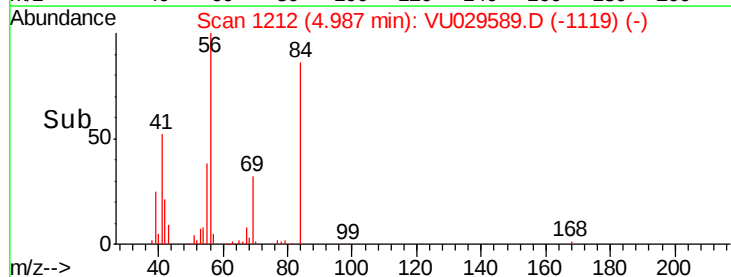
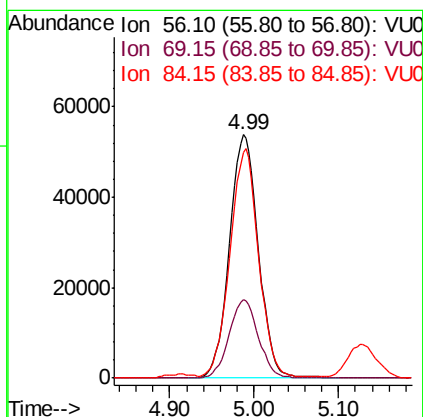
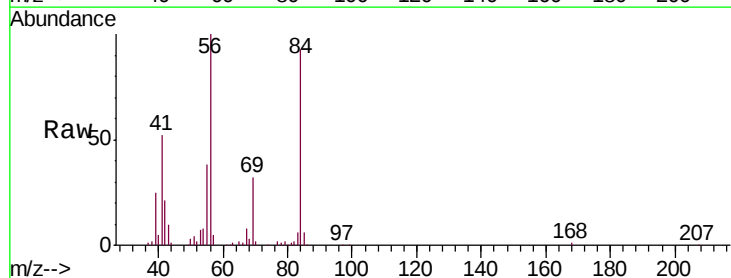
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00548

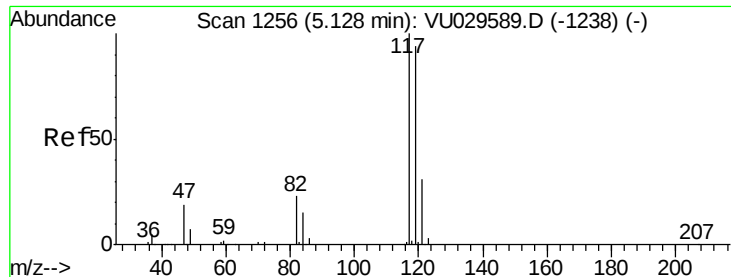
Tgt Ion: 97 Resp: 129937
 Ion Ratio Lower Upper
 97 100
 99 65.2 52.2 78.2
 61 41.9 33.5 50.3



#30
 Cyclohexane
 Concen: 4.956 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

Tgt Ion: 56 Resp: 128259
 Ion Ratio Lower Upper
 56 100
 69 32.3 25.8 38.8
 84 91.9 73.5 110.3





#31

Carbon tetrachloride

Concen: 5.054 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

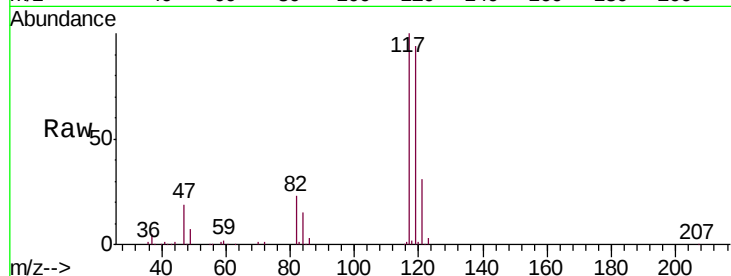
VSTD00548

Tgt Ion:117 Resp: 115018

Ion Ratio Lower Upper

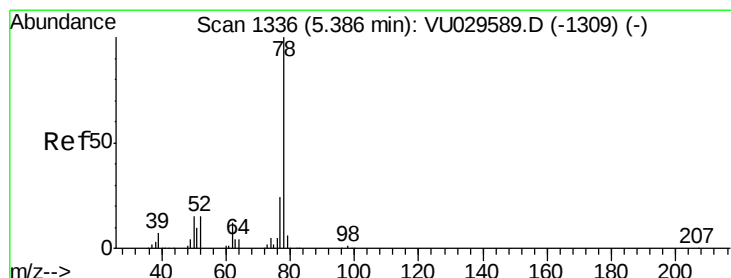
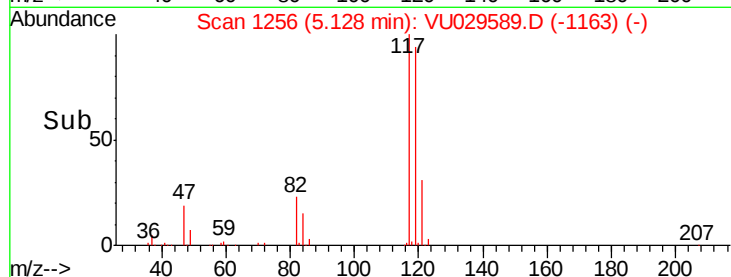
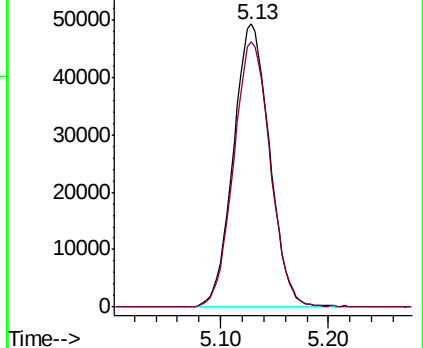
117 100

119 94.8 75.8 113.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.962 ug/L

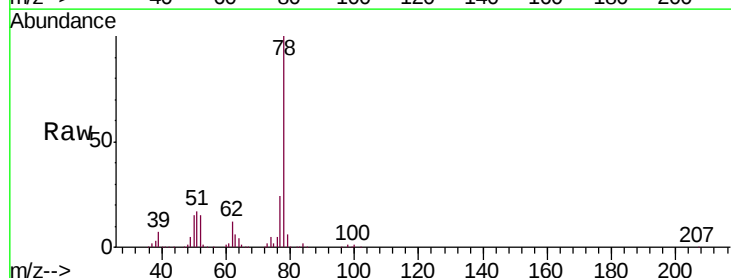
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

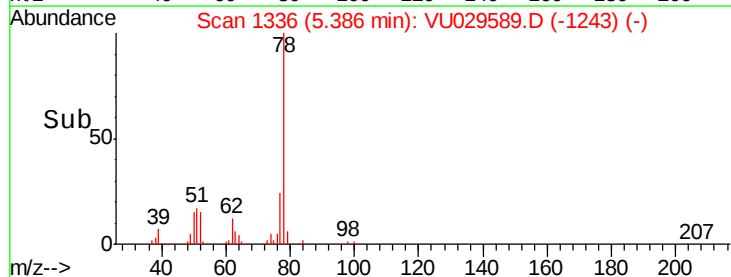
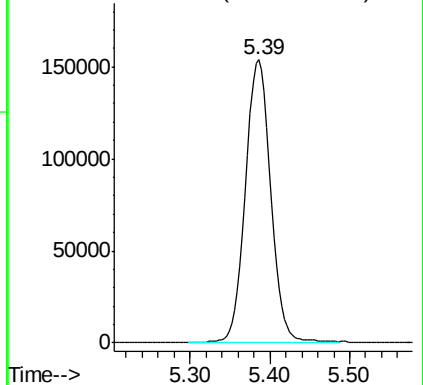
Lab File: VU029589.D

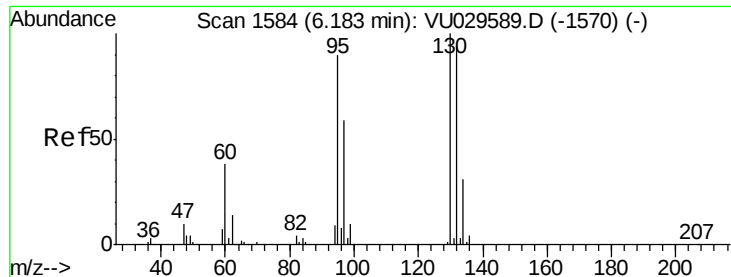
Acq: 21 Feb 2019 11:29

Tgt Ion: 78 Resp: 329879



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.988 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00548

Tgt Ion: 95 Resp: 92568

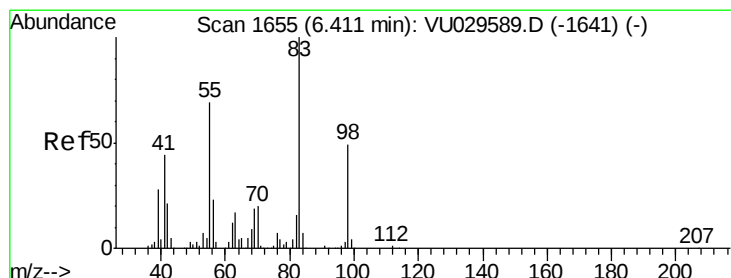
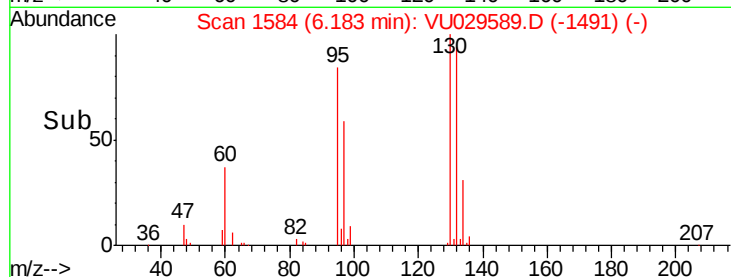
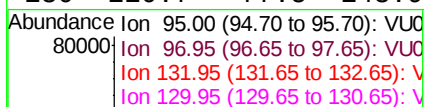
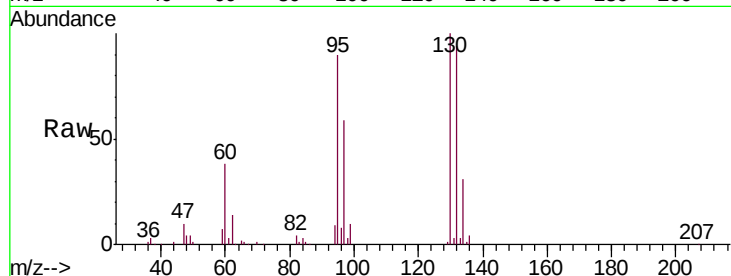
Ion Ratio Lower Upper

95 100

97 65.2 45.6 84.8

132 104.1 72.9 135.3

130 110.7 77.5 143.9



#35

Methylcyclohexane

Concen: 4.928 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

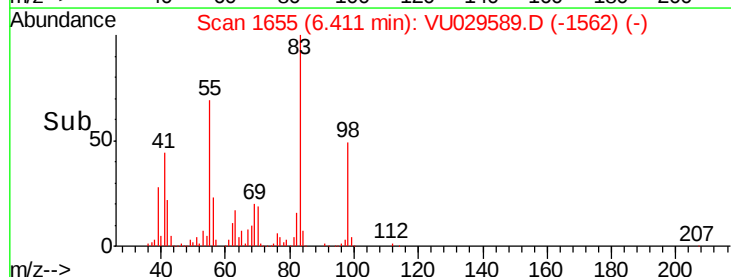
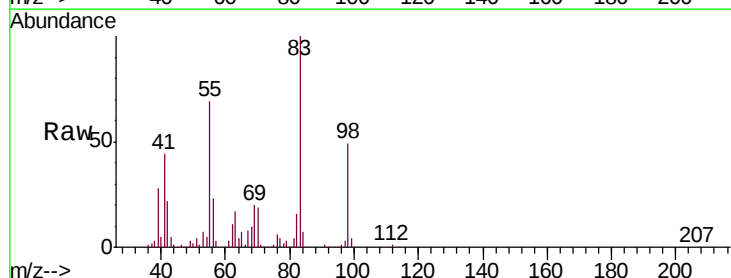
Tgt Ion: 83 Resp: 148332

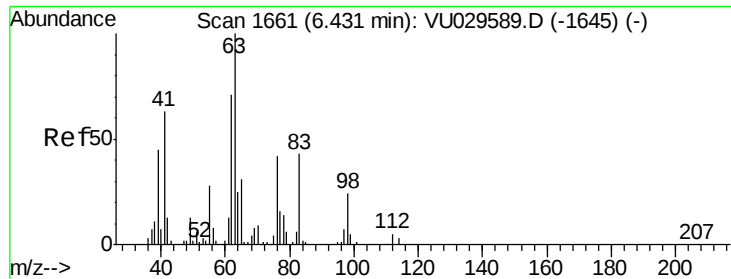
Ion Ratio Lower Upper

83 100

55 70.6 56.5 84.7

98 49.3 39.4 59.2





#37

1,2-Dichloropropane

Concen: 4.990 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

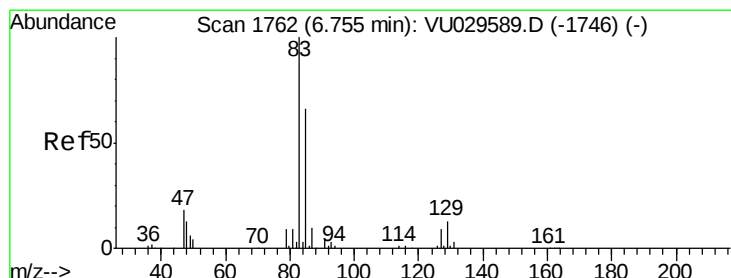
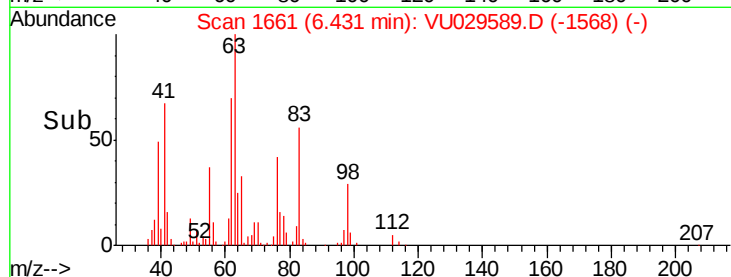
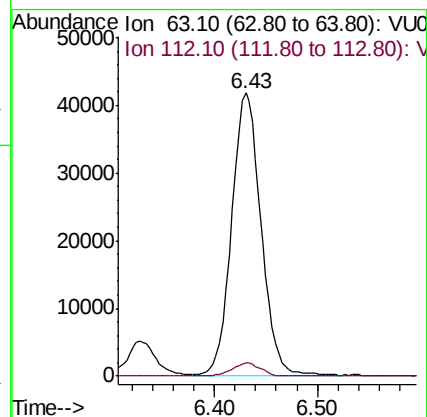
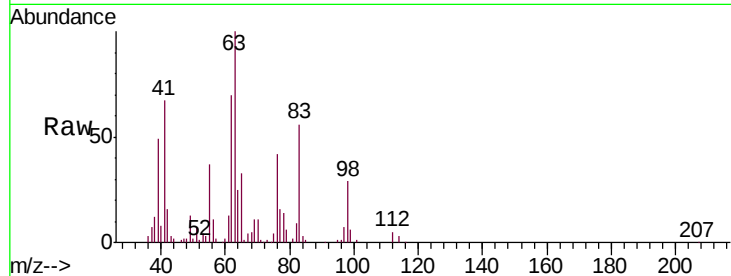
VSTD00548

Tgt Ion: 63 Resp: 83570

Ion Ratio Lower Upper

63 100

112 4.5 3.6 5.4



#38

Bromodichloromethane

Concen: 4.994 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

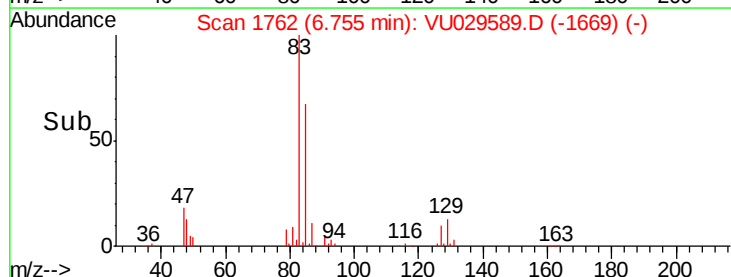
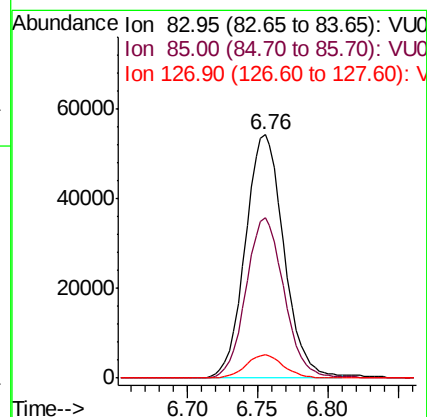
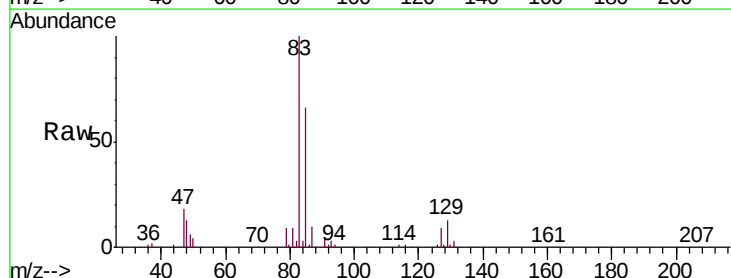
Tgt Ion: 83 Resp: 104401

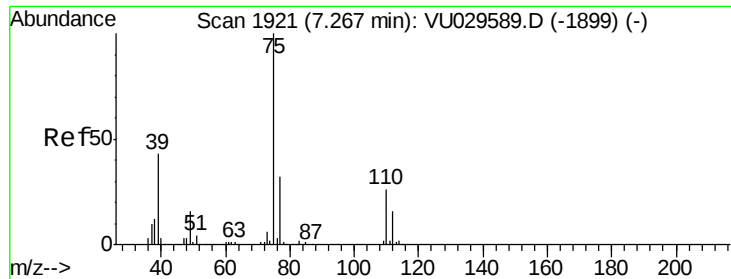
Ion Ratio Lower Upper

83 100

85 65.8 46.1 85.5

127 9.4 7.5 11.3

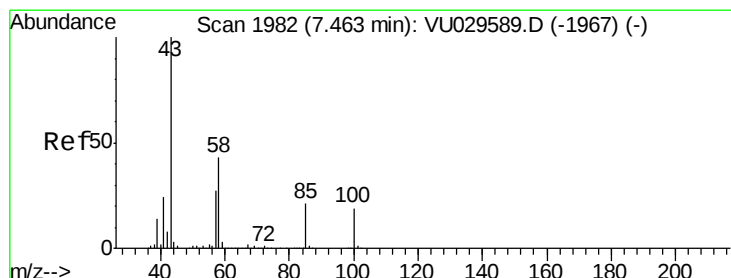
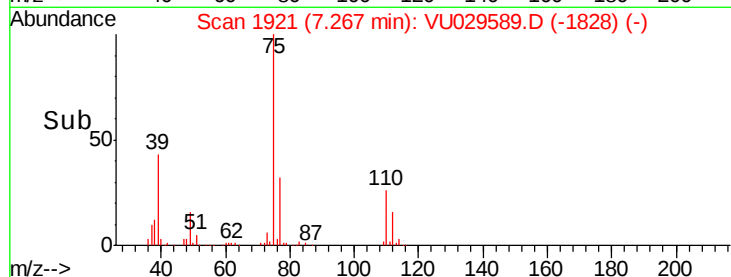
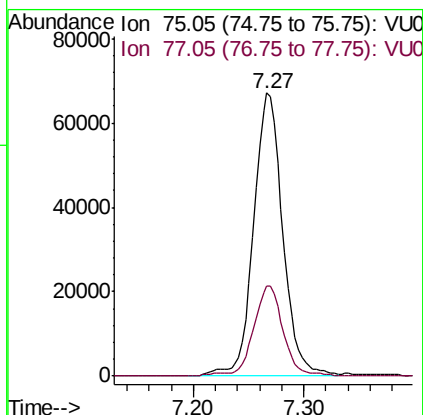
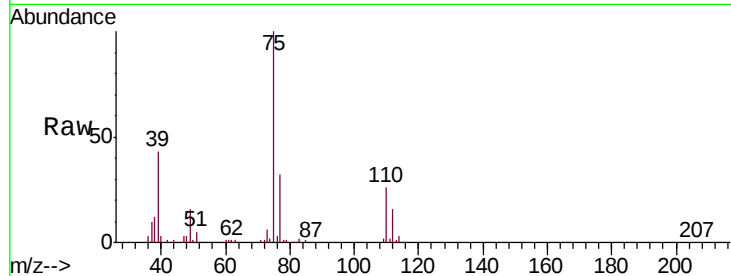




#39
 cis-1,3-Dichloropropene
 Concen: 5.044 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

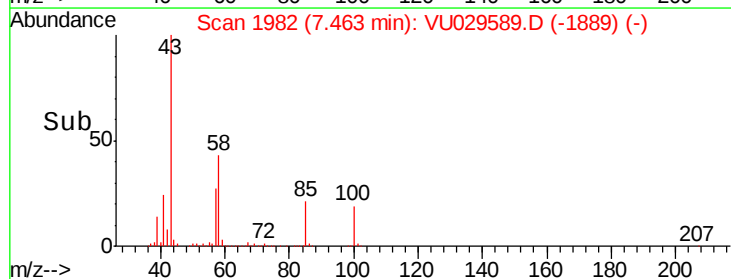
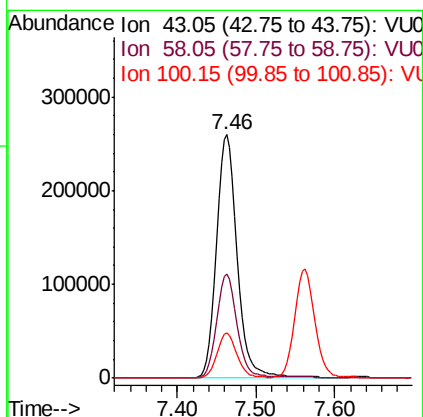
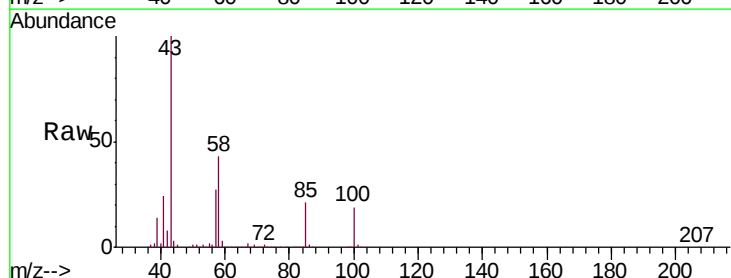
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00548

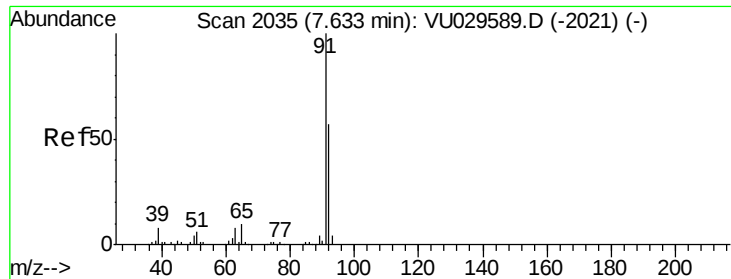
Tgt Ion: 75 Resp: 123642
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 50.141 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

Tgt Ion: 43 Resp: 471969
 Ion Ratio Lower Upper
 43 100
 58 42.3 33.8 50.8
 100 17.7 14.2 21.2





#42

Toluene

Concen: 5.003 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

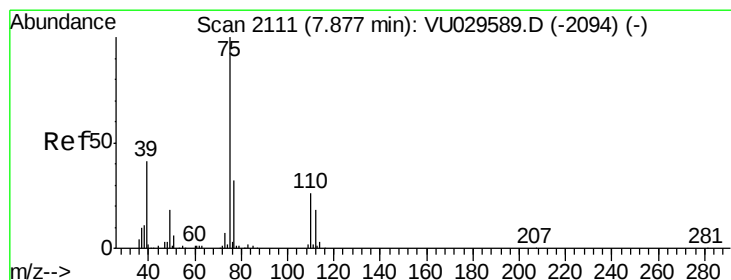
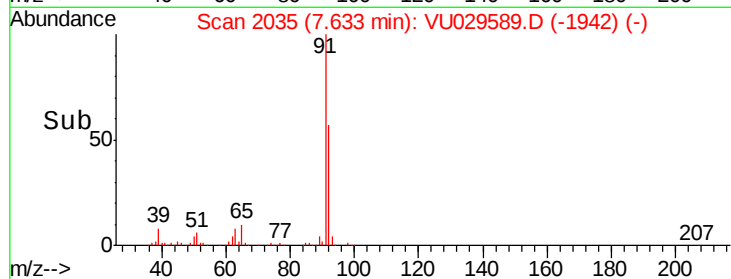
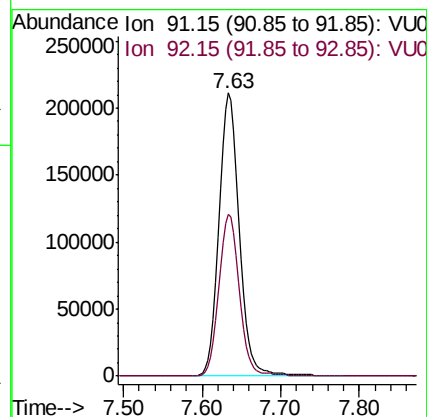
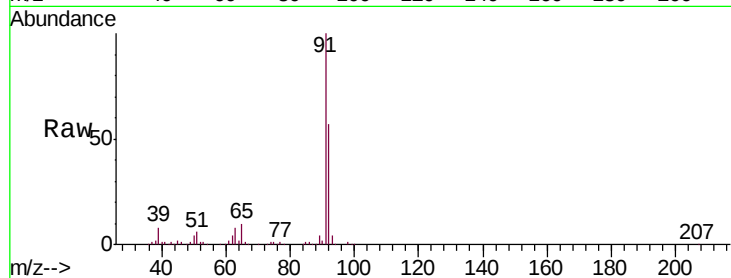
VSTD00548

Tgt Ion: 91 Resp: 377282

Ion Ratio Lower Upper

91 100

92 57.3 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 5.014 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU029589.D

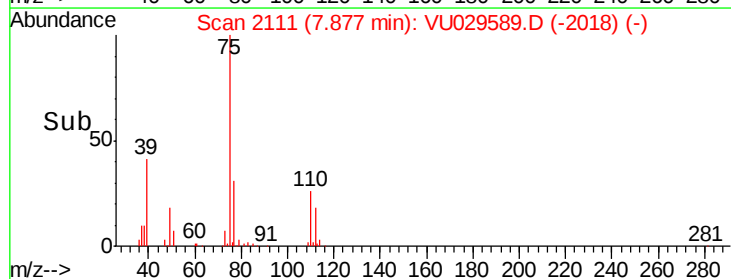
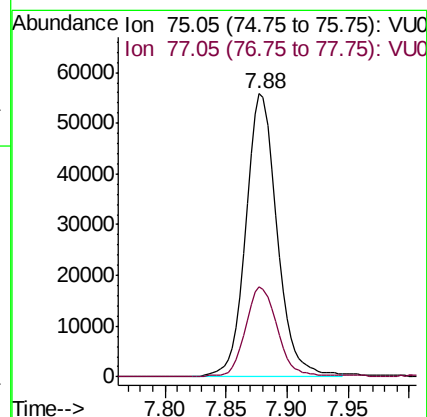
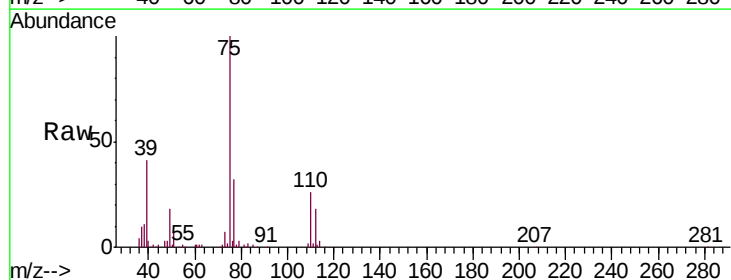
Acq: 21 Feb 2019 11:29

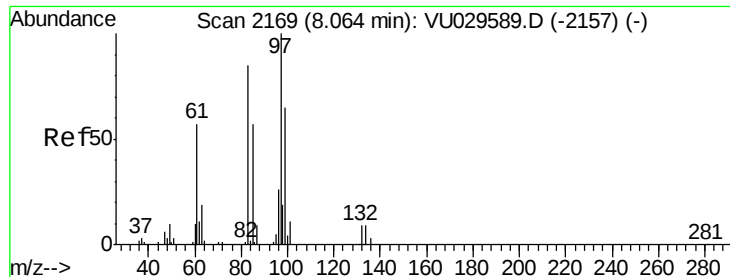
Tgt Ion: 75 Resp: 98660

Ion Ratio Lower Upper

75 100

77 31.7 22.2 41.2

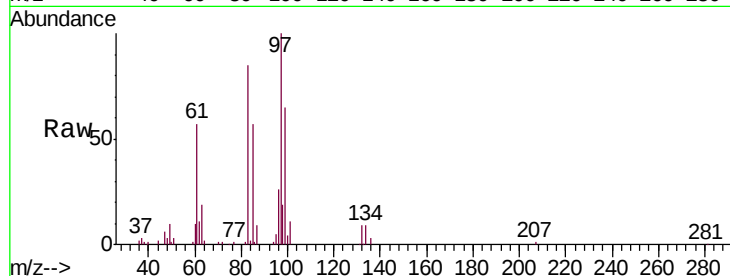




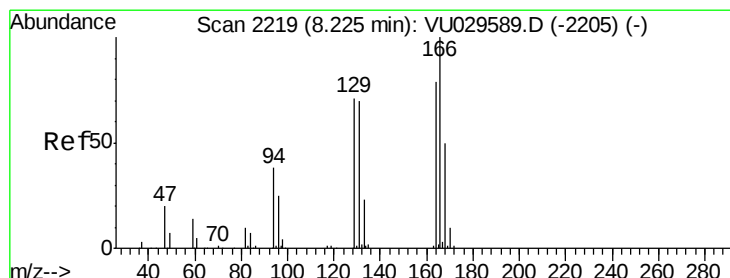
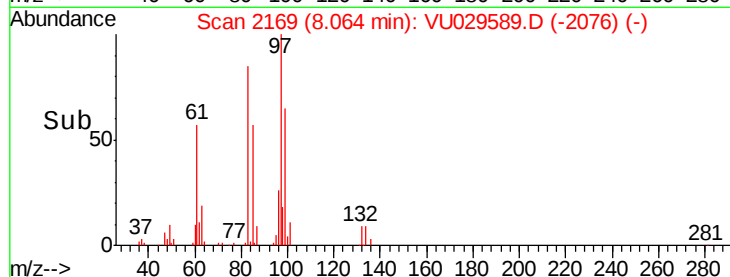
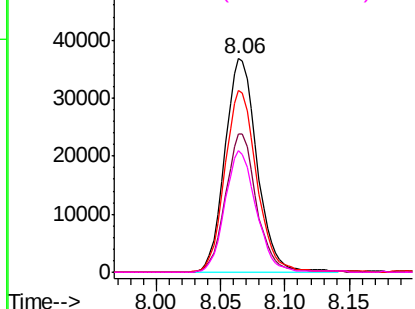
#45
 1,1,2-Trichloroethane
 Concen: 4.869 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00548

Tgt Ion:	97	Resp:	63849
Ion	Ratio	Lower	Upper
97	100		
99	64.7	45.3	84.1
83	85.1	59.6	110.6
85	56.9	39.8	74.0

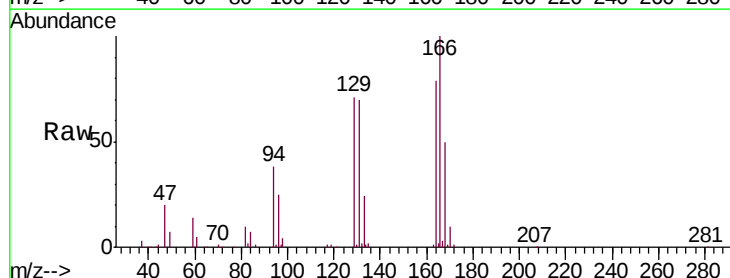


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

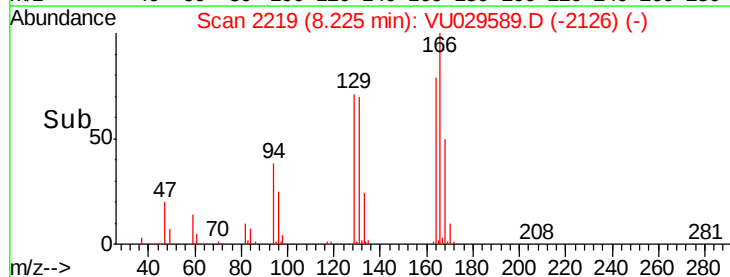
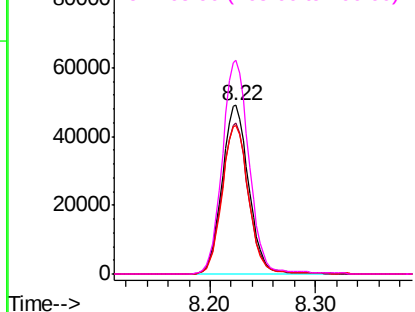


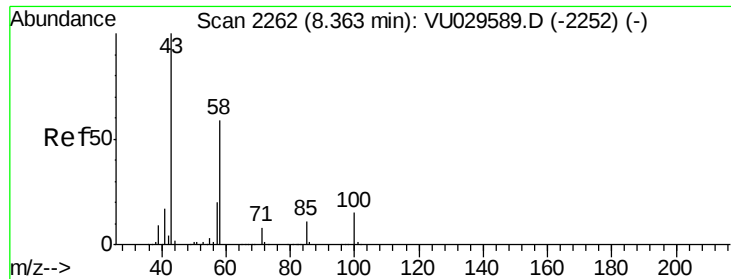
#47
 Tetrachloroethene
 Concen: 4.995 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

Tgt Ion:	164	Resp:	86083
Ion	Ratio	Lower	Upper
164	100		
129	89.8	62.9	116.7
131	88.3	61.8	114.8
166	126.8	88.8	164.8



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

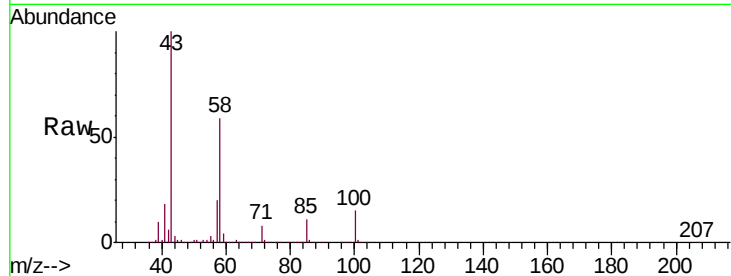




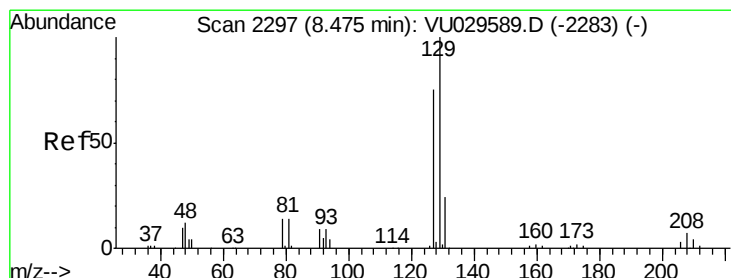
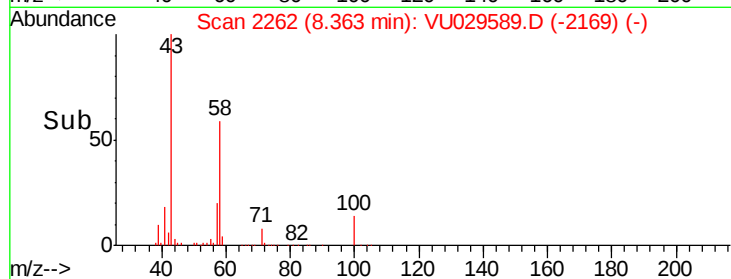
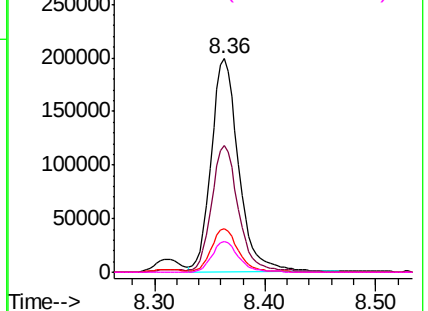
#48
2-Hexanone
Concen: 49.694 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD00548

Tgt Ion:	43	Resp:	342093
Ion	Ratio	Lower	Upper
43	100		
58	58.2	46.6	69.8
57	19.9	15.9	23.9
100	14.3	11.4	17.2

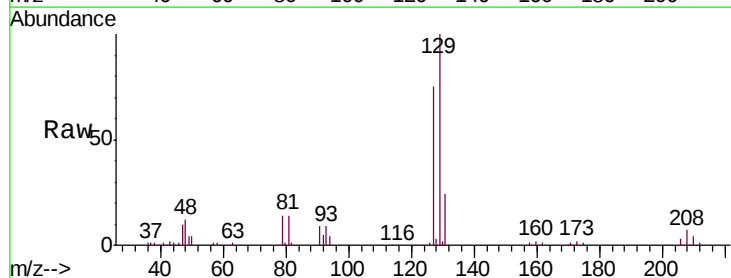


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

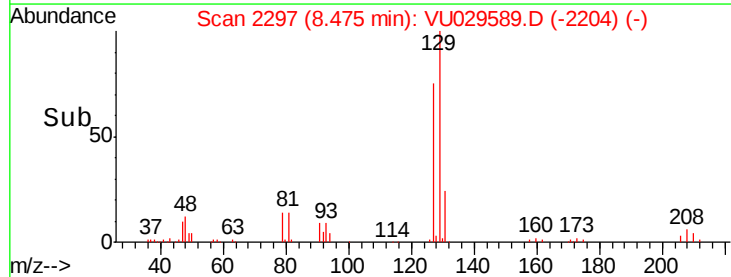
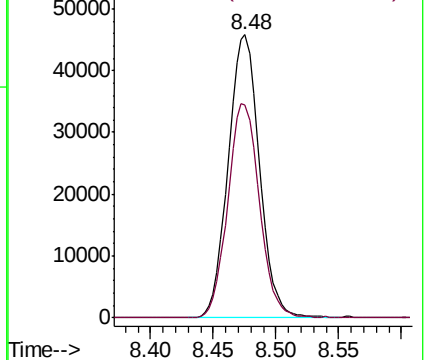


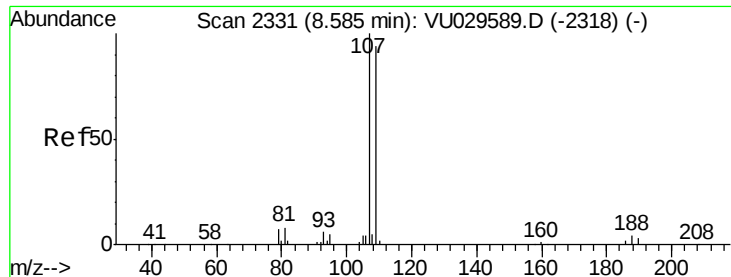
#49
Dibromochloromethane
Concen: 5.000 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Tgt Ion:	129	Resp:	79436
Ion	Ratio	Lower	Upper
129	100		
127	75.0	52.5	97.5



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





#50

1,2-Dibromoethane

Concen: 5.014 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00548

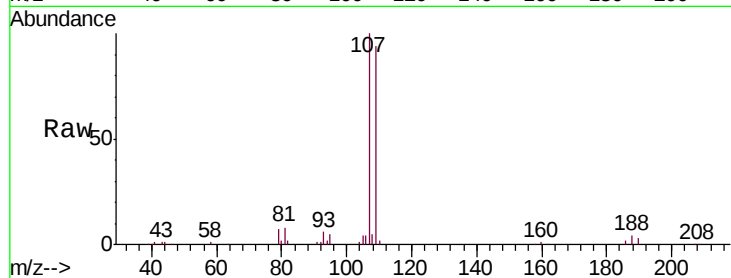
Tgt Ion:107 Resp: 64374

Ion Ratio Lower Upper

107 100

109 94.0 65.8 122.2

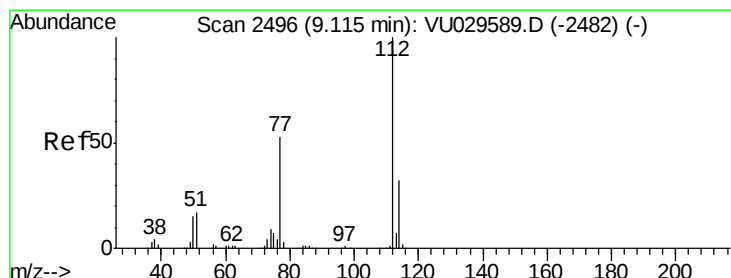
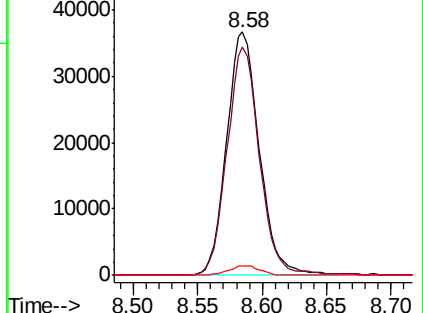
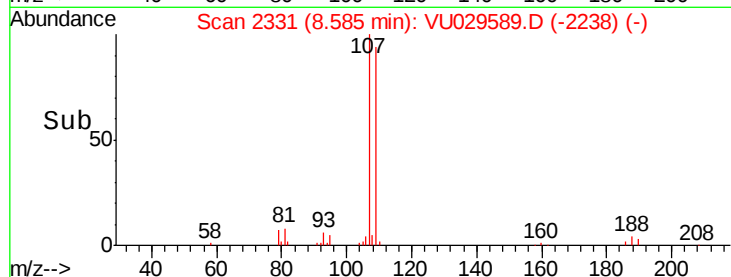
188 4.1 3.3 4.9



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.966 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

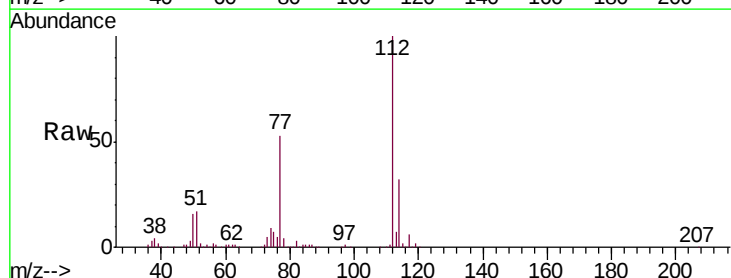
Tgt Ion:112 Resp: 257266

Ion Ratio Lower Upper

112 100

114 31.8 22.3 41.3

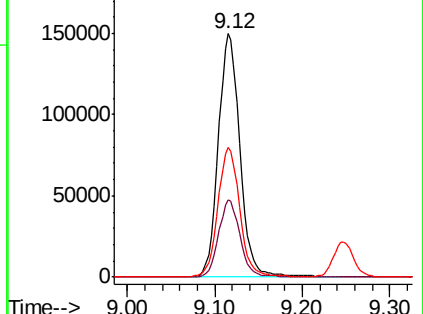
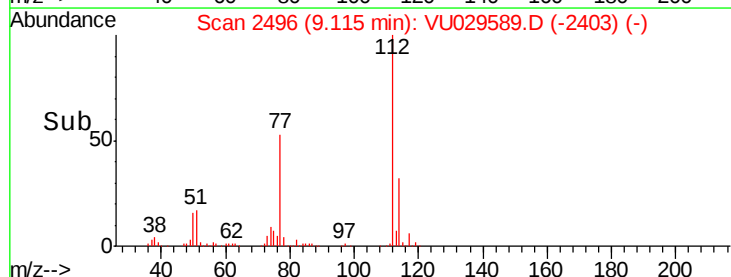
77 53.4 42.7 64.1

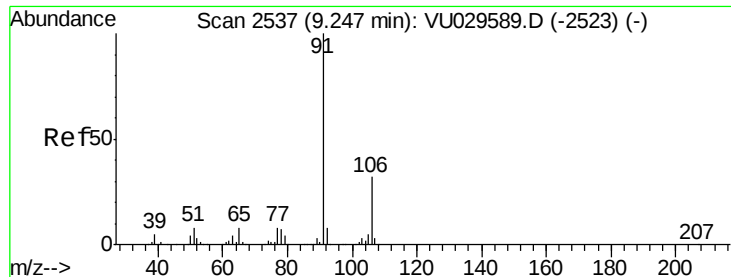


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 5.004 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

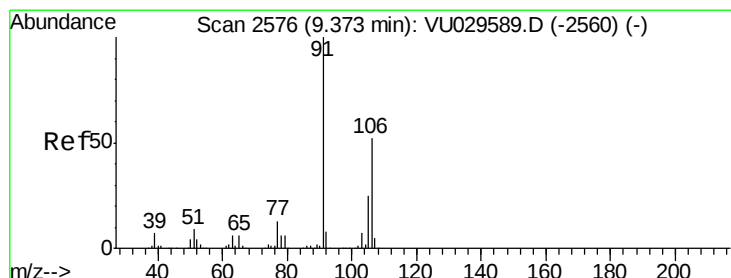
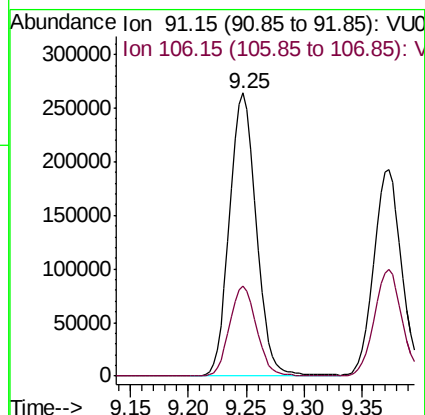
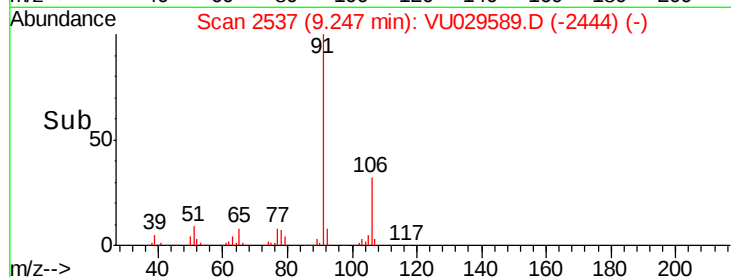
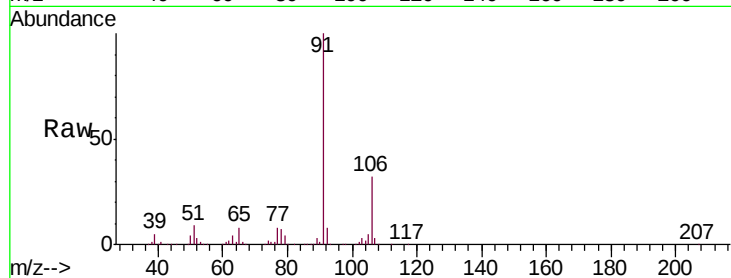
VSTD00548

Tgt Ion: 91 Resp: 422027

Ion Ratio Lower Upper

91 100

106 31.6 22.1 41.1



#53

m,p-xylene

Concen: 4.928 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029589.D

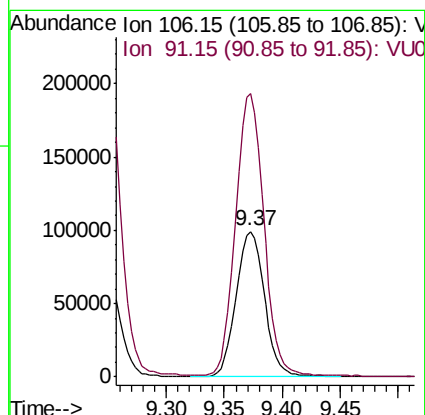
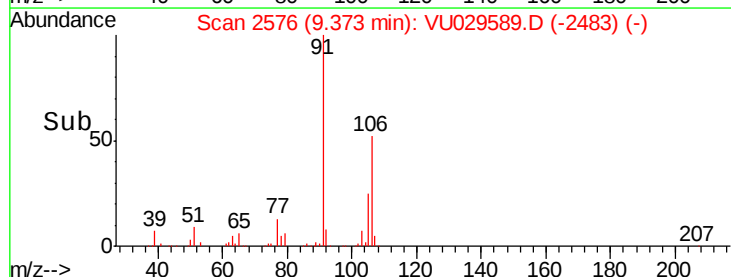
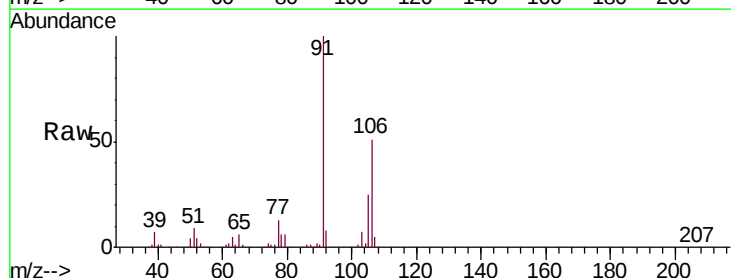
Acq: 21 Feb 2019 11:29

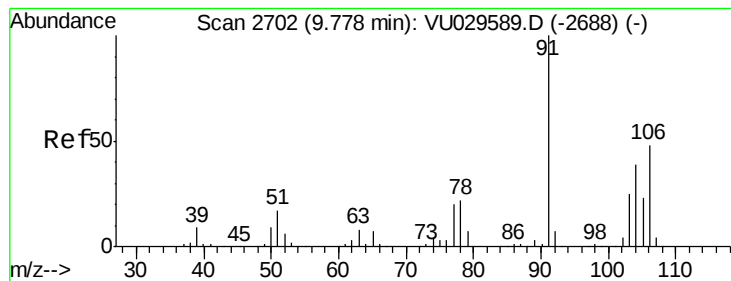
Tgt Ion: 106 Resp: 166633

Ion Ratio Lower Upper

106 100

91 194.3 136.0 252.6





#54

o-xylene

Concen: 5.018 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

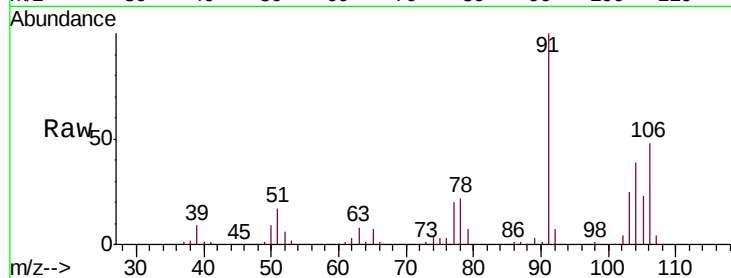
VSTD00548

Tgt Ion:106 Resp: 163377

Ion Ratio Lower Upper

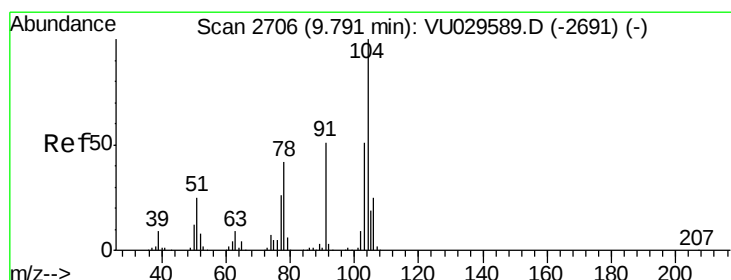
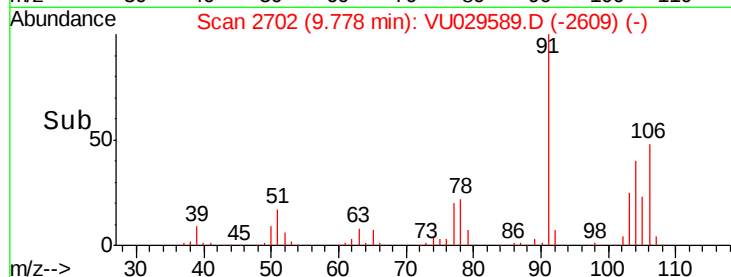
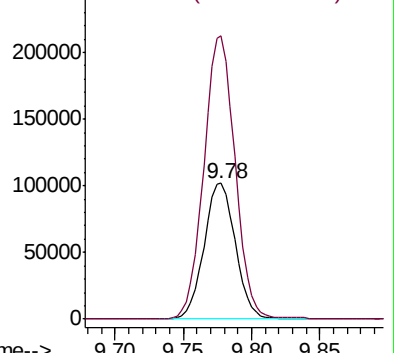
106 100

91 208.1 145.7 270.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.983 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029589.D

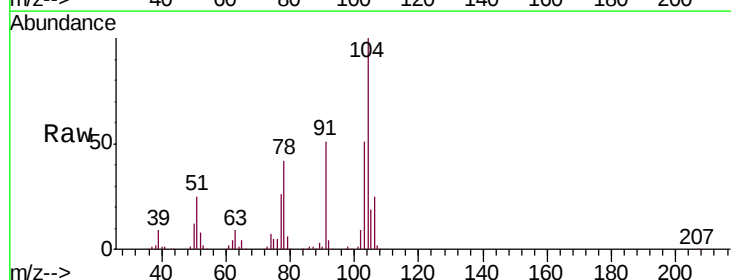
Acq: 21 Feb 2019 11:29

Tgt Ion:104 Resp: 271024

Ion Ratio Lower Upper

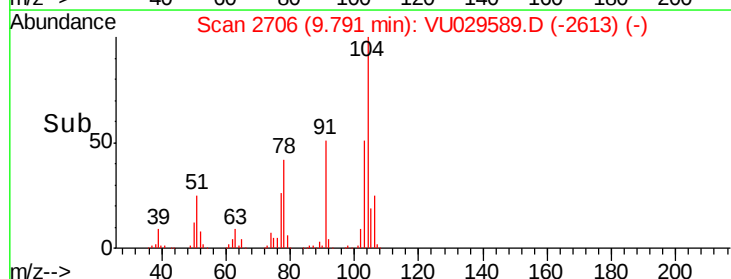
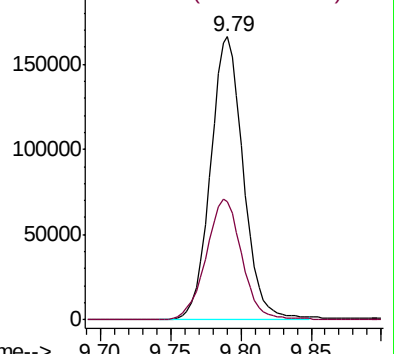
104 100

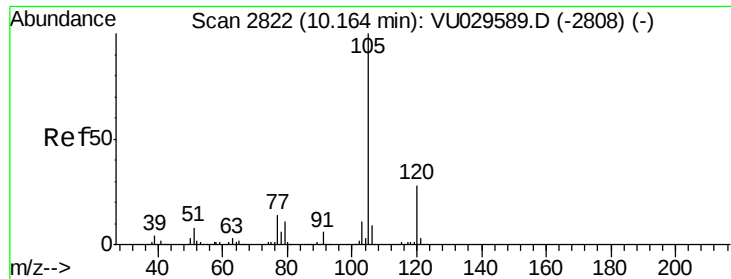
78 41.7 29.2 54.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0

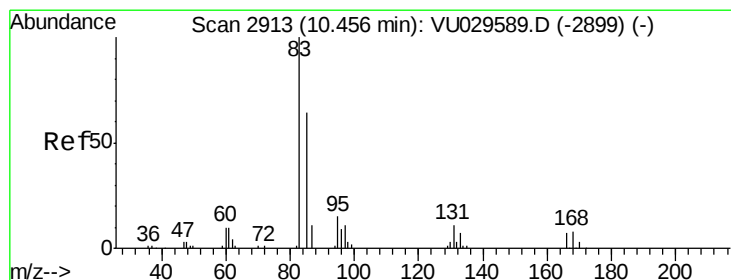
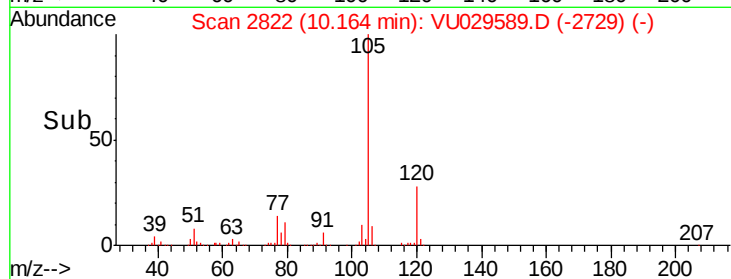
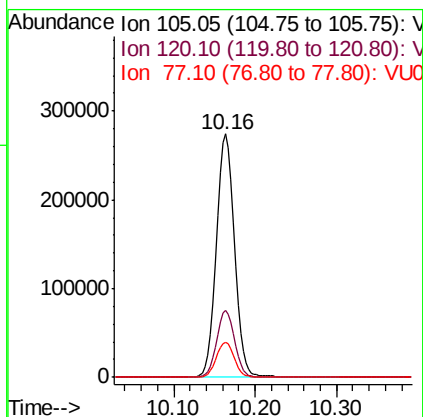
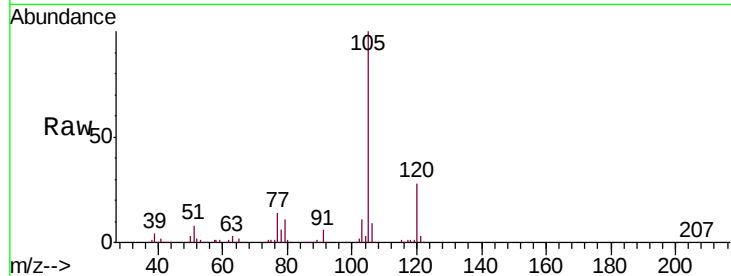




#56
Isopropylbenzene
Concen: 4.986 ug/L
RT: 10.16 min Scan# 2822
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

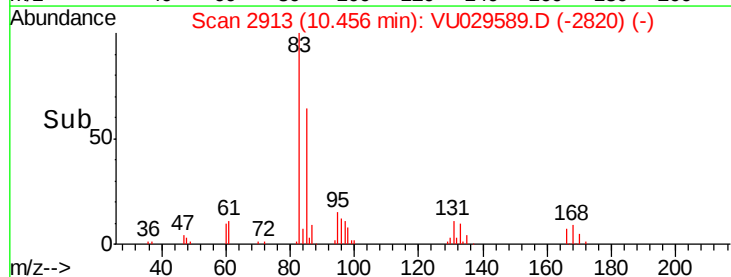
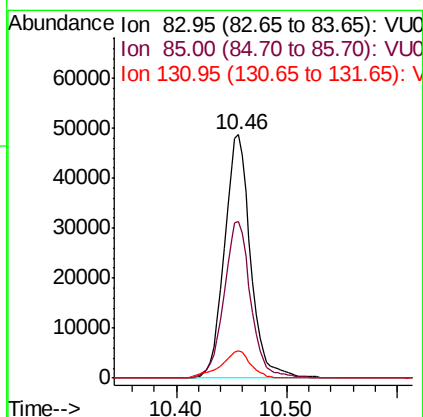
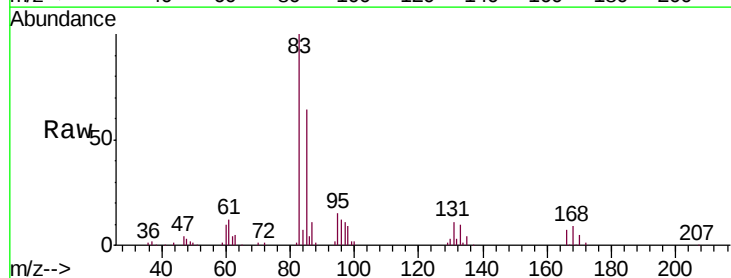
Instrument :
MSVOA_U
ClientSampleId :
VSTD00548

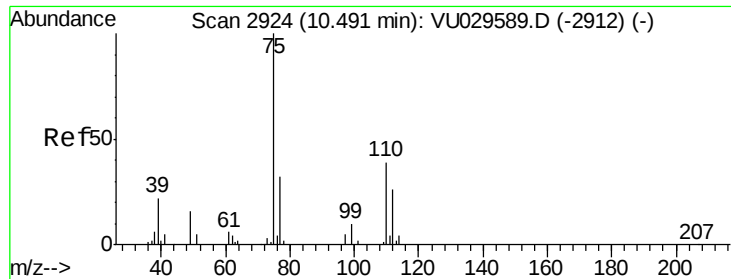
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.2	21.8	32.6
77	14.4	11.5	17.3



#58
1,1,2,2-Tetrachloroethane
Concen: 4.934 ug/L
RT: 10.46 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VU029589.D
Acq: 21 Feb 2019 11:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	44.9	83.3
131	11.1	8.9	13.3

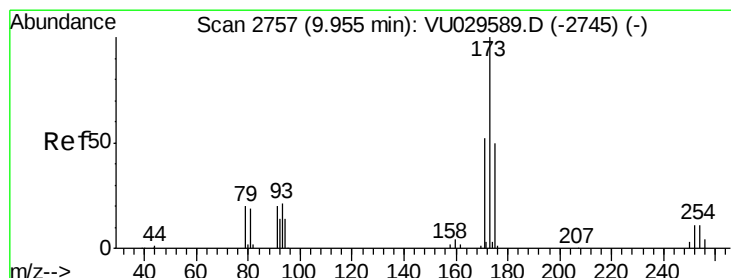
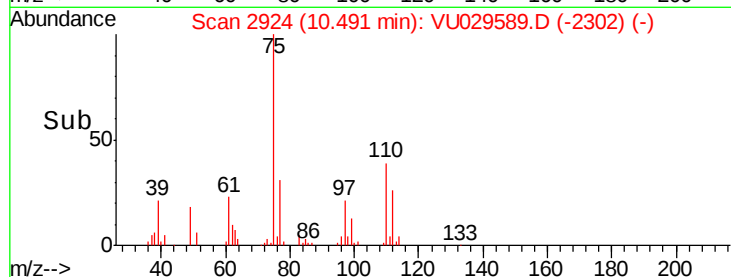
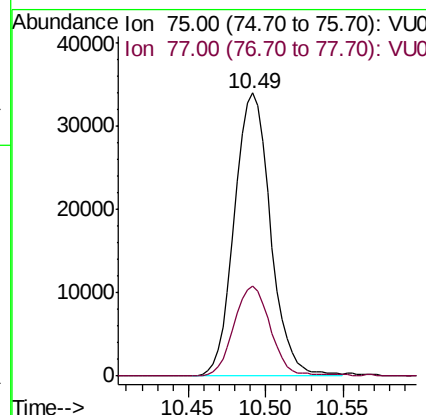
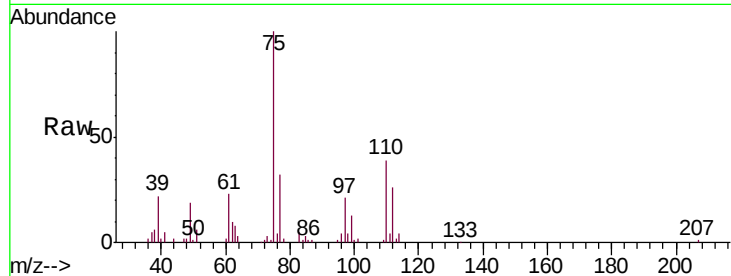




#59
 1,2,3-Trichloropropane
 Concen: 4.926 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

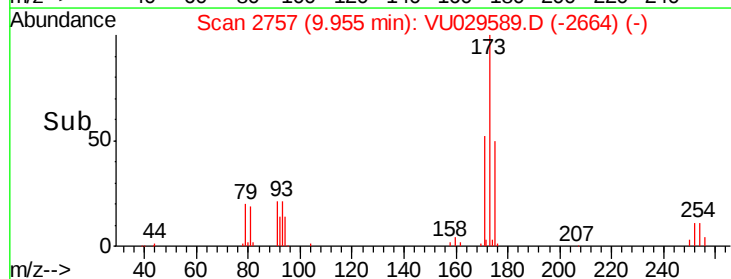
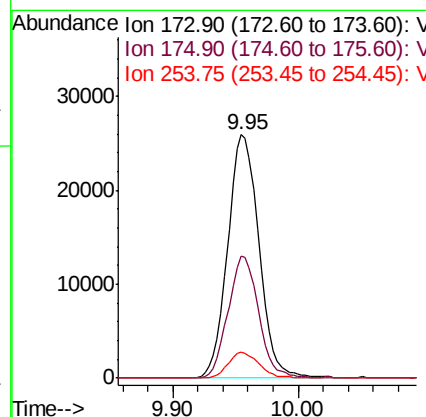
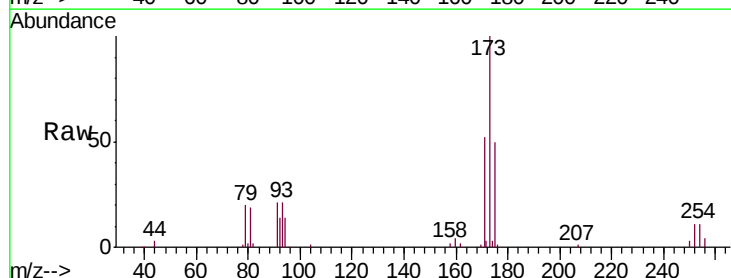
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00548

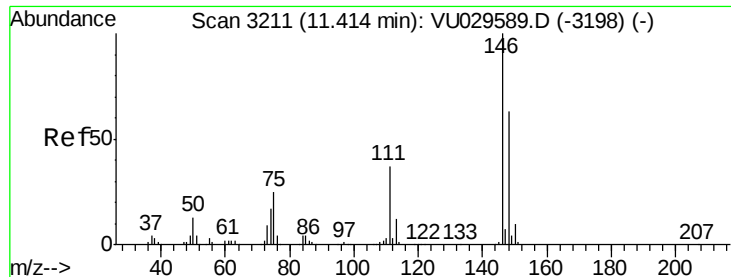
Tgt Ion: 75 Resp: 55087
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.6 38.4



#61
 Bromoform
 Concen: 4.955 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

Tgt Ion: 173 Resp: 44793
 Ion Ratio Lower Upper
 173 100
 175 48.8 39.0 58.6
 254 10.3 8.2 12.4





#62

1,3-Dichlorobenzene

Concen: 5.033 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00548

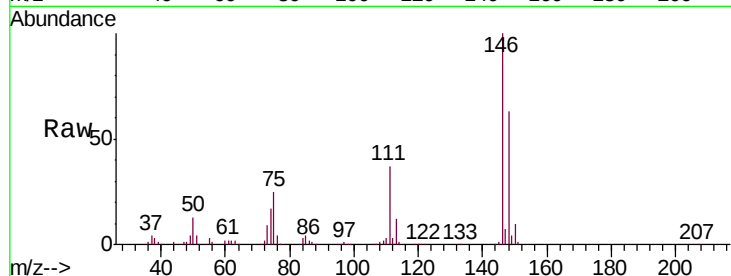
Tgt Ion:146 Resp: 217824

Ion Ratio Lower Upper

146 100

111 36.7 25.7 47.7

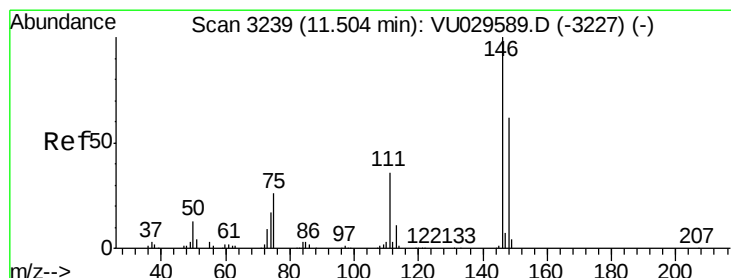
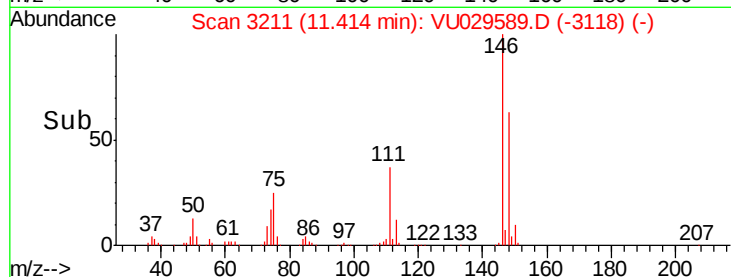
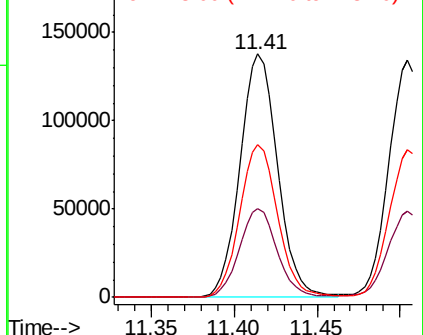
148 62.9 44.0 81.8



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



#63

1,4-Dichlorobenzene

Concen: 4.938 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

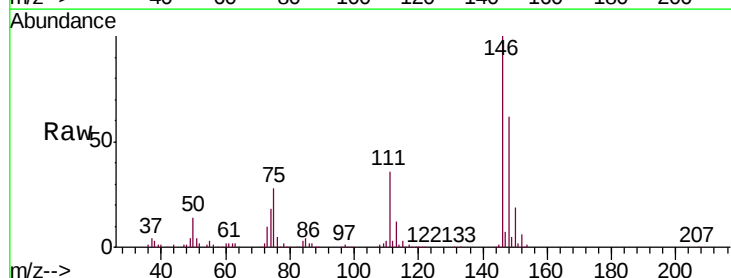
Tgt Ion:146 Resp: 216717

Ion Ratio Lower Upper

146 100

111 36.3 25.4 47.2

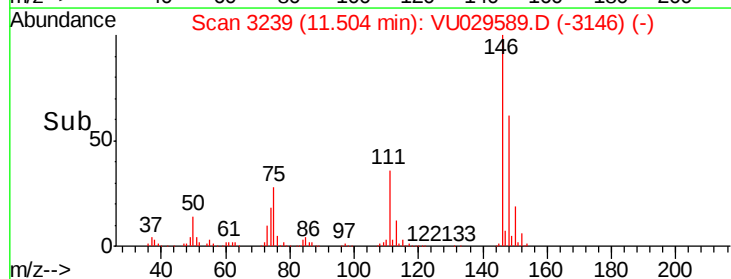
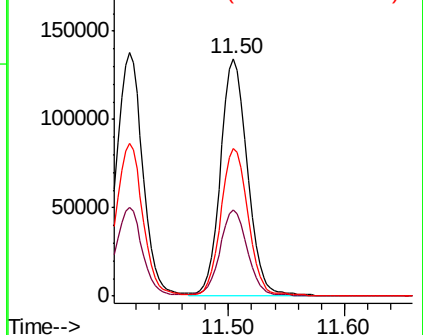
148 62.4 43.7 81.1

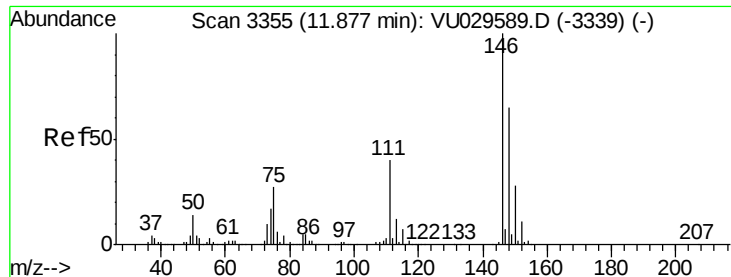


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

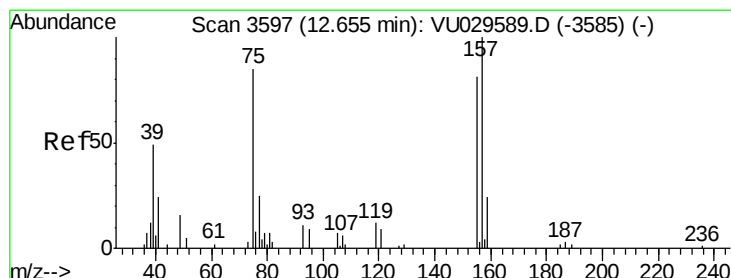
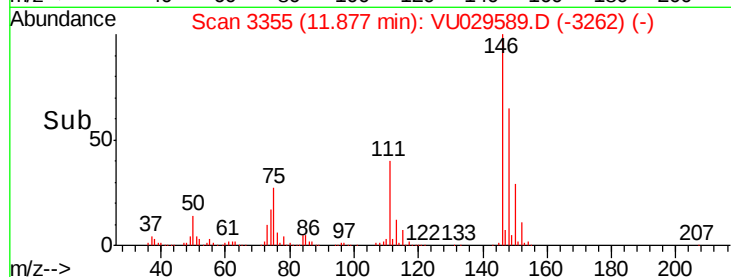
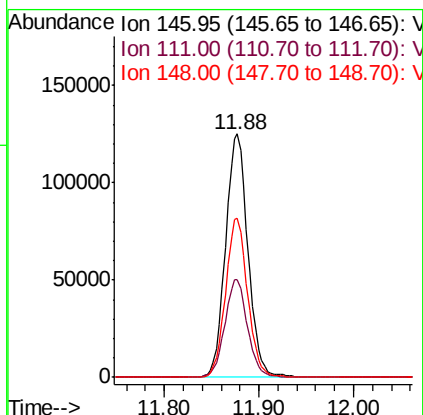
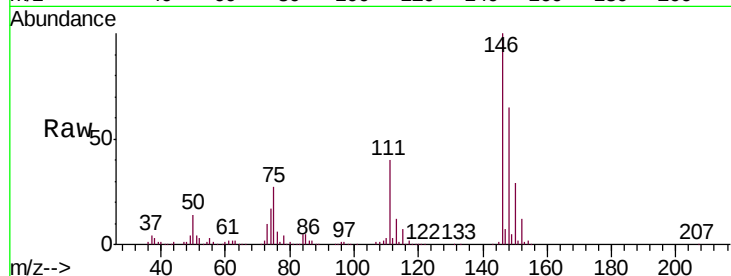




#65
 1,2-Dichlorobenzene
 Concen: 4.923 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

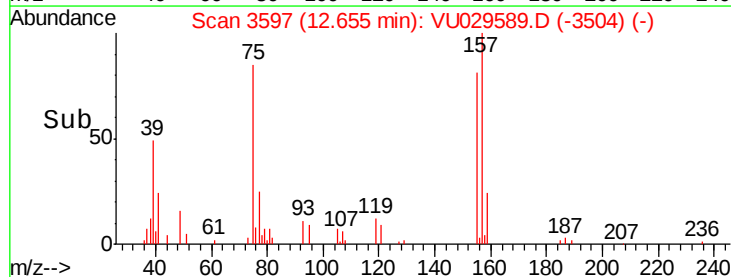
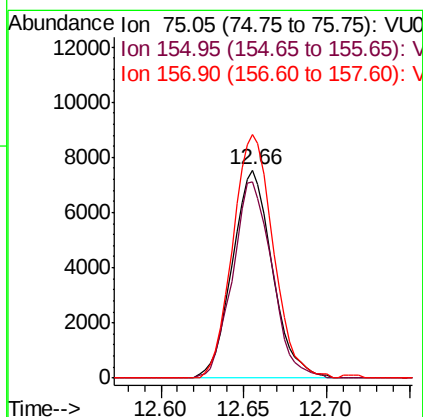
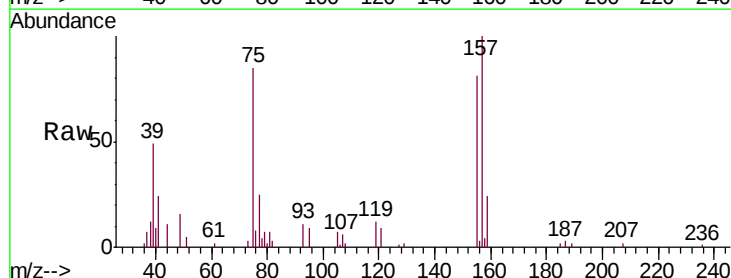
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00548

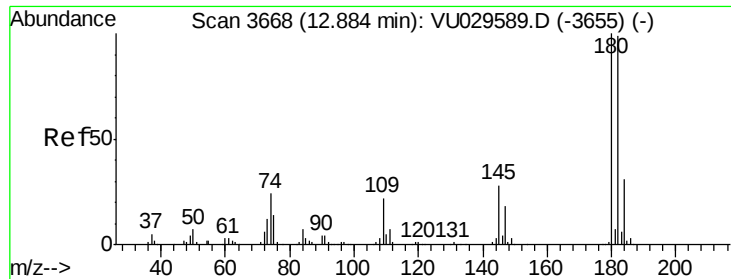
Tgt Ion: 146 Resp: 205664
 Ion Ratio Lower Upper
 146 100
 111 40.2 32.2 48.2
 148 65.3 52.2 78.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.158 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

Tgt Ion: 75 Resp: 12668
 Ion Ratio Lower Upper
 75 100
 155 94.4 75.5 113.3
 157 117.2 93.8 140.6

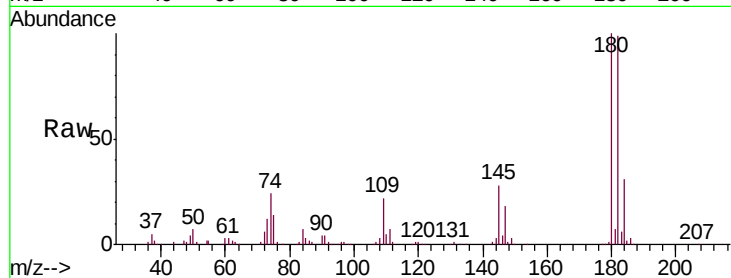




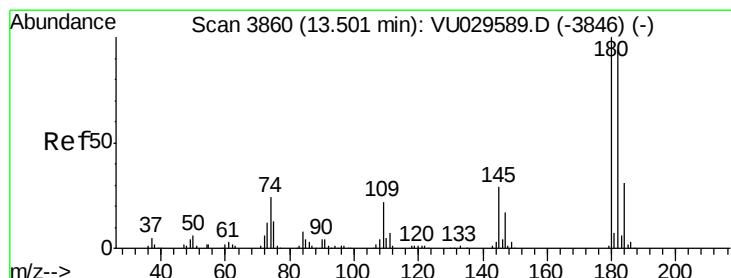
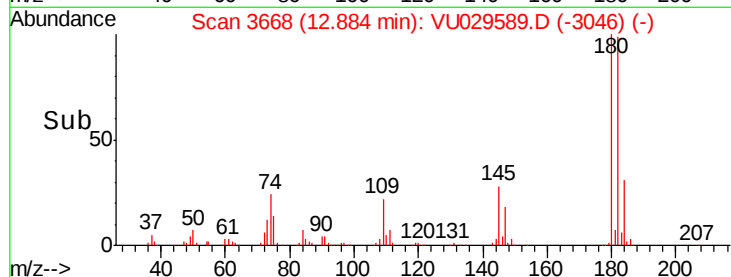
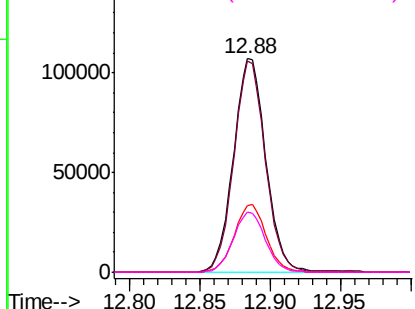
#67
 1,3,5-Trichlorobenzene
 Concen: 4.948 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00548

Tgt Ion:180 Resp: 172459
 Ion Ratio Lower Upper
 180 100
 182 96.3 77.0 115.6
 184 31.2 25.0 37.4
 145 28.0 22.4 33.6

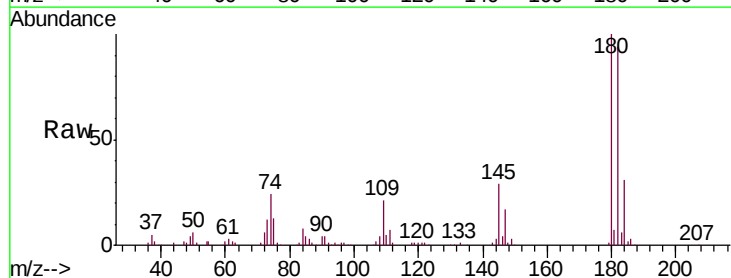


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

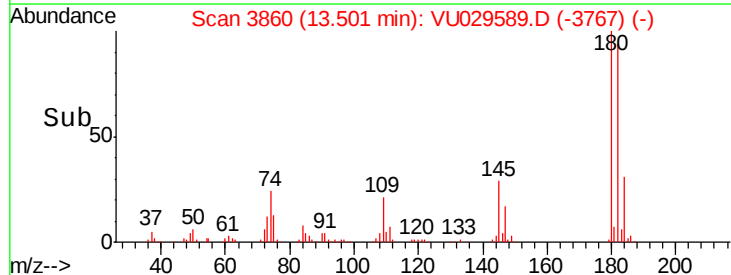
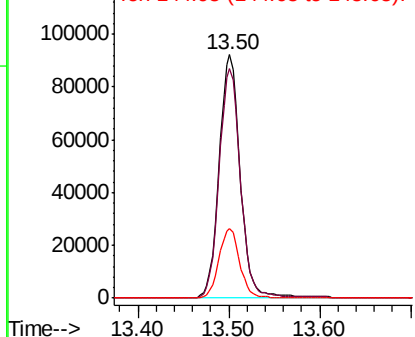


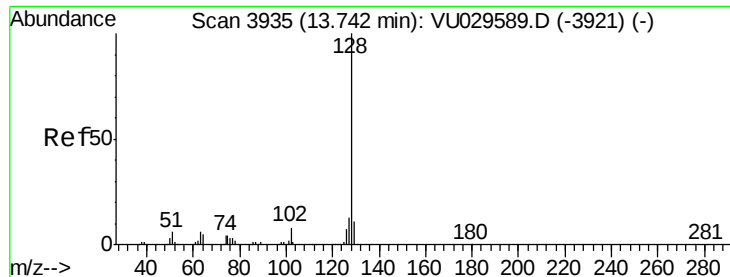
#68
 1,2,4-trichlorobenzene
 Concen: 5.058 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU029589.D
 Acq: 21 Feb 2019 11:29

Tgt Ion:180 Resp: 148963
 Ion Ratio Lower Upper
 180 100
 182 94.6 75.7 113.5
 145 28.0 22.4 33.6



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: 5.135 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00548

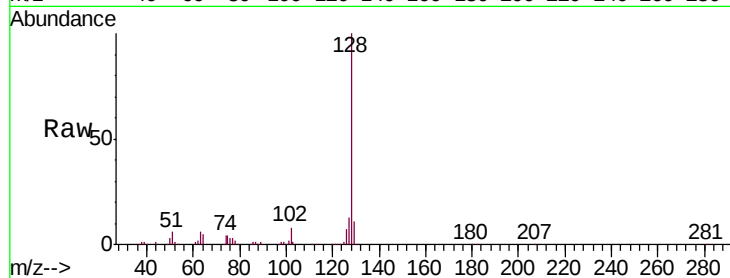
Tgt Ion:128 Resp: 233779

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

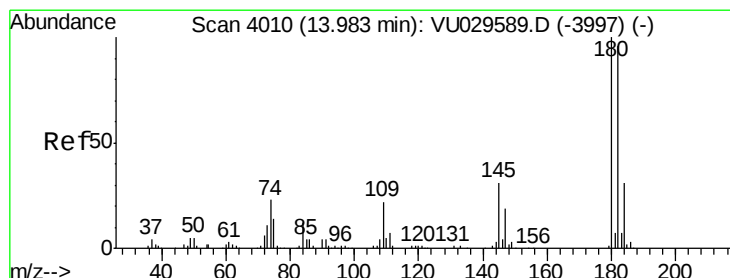
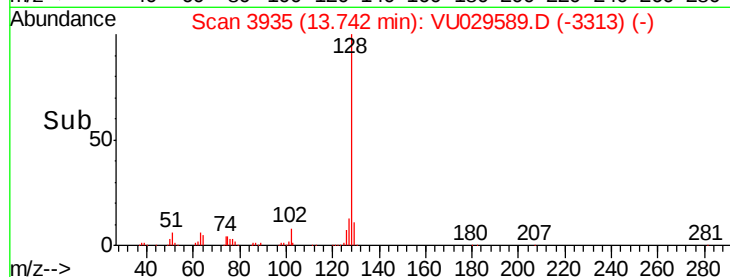
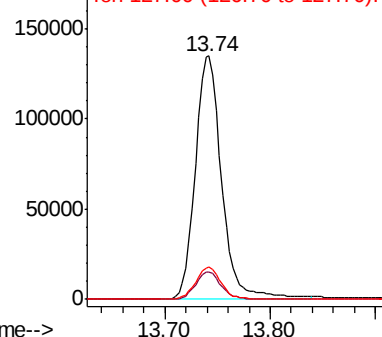
127 12.5 10.0 15.0



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: 4.972 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU029589.D

Acq: 21 Feb 2019 11:29

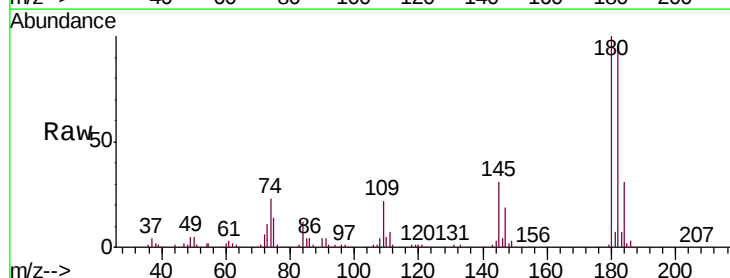
Tgt Ion:180 Resp: 137119

Ion Ratio Lower Upper

180 100

182 96.2 77.0 115.4

145 30.2 24.2 36.2



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

