

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102318\
 Data File : VU027749.D
 Acq On : 22 Oct 2018 19:09
 Operator : MD/SY
 Sample : VSTDIC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

sam

10/24/2018 2:20:16 PM

Quant Time: Oct 23 04:37:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Oct 23 04:01:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	13338	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	5058	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	4681	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	26478	4.706	ug/l	100
3) Chloromethane	1.33	50	27872	4.611	ug/l	100
4) Vinyl Chloride	1.40	62	26147	4.628	ug/l	100
5) Bromomethane	1.63	94	13783	5.090	ug/l	99
6) Chloroethane	1.70	64	13612	4.037	ug/l	92
7) Trichlorofluoromethane	1.89	101	32730	4.929	ug/l	100
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	16891	4.605	ug/l	97
9) 1,1-Dichloroethene	2.29	96	14999	4.580	ug/l	99
10) Iodomethane	2.41	142	21834	4.955	ug/l	98
11) Allyl Chloride	2.59	41	34808	4.528	ug/l	100
12) Acrylonitrile	2.95	53	8655	8.305	ug/l	97
13) Acetone	2.34	43	17884	22.796	ug/l	96
14) Carbon Disulfide	2.48	76	55475	4.672	ug/l	99
15) Methylene Chloride	2.70	84	17863	4.467	ug/l	98
16) trans-1,2-Dichloroethene	2.98	96	16948	4.613	ug/l	94
17) 1,1-Dichloroethane	3.45	63	36625	4.776	ug/l	99
18) 2-Butanone	4.30	43	33894	24.035	ug/l	98
19) Cyclohexane	4.99	56	33293	4.745	ug/l	98
20) Methylcyclohexane	6.41	83	34181	4.986	ug/l	99
21) 2,2-Dichloropropane	4.23	77	31485	4.633	ug/l	98
22) cis-1,2-Dichloroethene	4.23	96	19865	4.763	ug/l	97
23) Diethyl Ether	2.11	59	14383	4.658	ug/l	97
24) tert-Butyl Alcohol	2.89	59	14493m	49.022	ug/l	
25) Methyl tert-Butyl Ether	3.01	73	48278	4.657	ug/l	100
26) Bromochloromethane	4.55	128	8386	4.967	ug/l	96
27) Chloroform	4.68	83	35699	4.719	ug/l	97
28) 1,1,1-Trichloroethane	4.92	97	32258	4.941	ug/l	99
29) 1,1-Dichloropropene	5.14	75	28303	4.921	ug/l	99
30) Carbon Tetrachloride	5.13	117	28418	4.885	ug/l	96
31) Isopropyl Ether	3.58	45	66066	4.586	ug/l	98
32) Ethyl-t-butyl ether	4.08	59	59501	4.681	ug/l	99
33) Tert-Amyl methyl ether	5.59	73	50382	4.718	ug/l	99
34) Propionitrile	4.36	54	8909	23.520	ug/l #	92
35) Benzene	5.39	78	78776	4.868	ug/l	99
36) 1,2-Dichloroethane	5.41	62	26068	5.053	ug/l	100
37) Trichloroethene	6.19	130	19410	4.869	ug/l	97
38) 1,2-Dichloropropane	6.44	63	22449	4.918	ug/l	100
39) Methacrylonitrile	4.56	41	9075	4.863	ug/l	97
40) Methyl acrylate	4.44	55	11900	4.700	ug/l	99
41) Tetrahydrofuran	4.67	42	9296	9.274	ug/l	97
42) 1-Chlorobutane	5.07	56	44001	4.888	ug/l	97

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

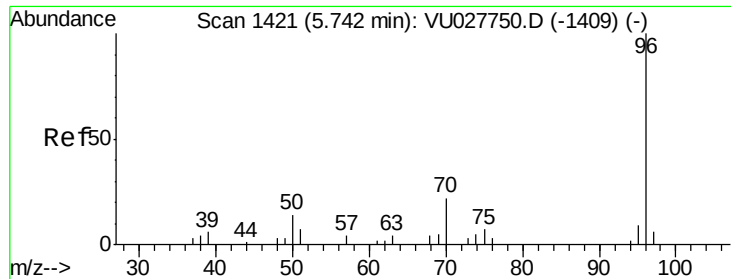
sam

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Quant Time: Oct 23 04:37:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	10264	5.047	ug/l	97
44) Bromodichloromethane	6.76	83	27550	5.044	ug/l	99
45) 4-Methyl-2-Pentanone	7.47	43	81428	23.663	ug/l	100
46) t-1,4-Dichloro-2-butene	10.52	75	12376m	9.727	ug/l	
47) Methyl methacrylate	6.63	69	22038	9.800	ug/l	97
48) Ethyl methacrylate	8.02	69	22707	4.717	ug/l	98
49) Toluene	7.64	92	47364	4.837	ug/l	100
50) t-1,3-Dichloropropene	7.88	75	27409	4.939	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	32334	4.912	ug/l	96
52) 1,1,2-Trichloroethane	8.07	97	14198	4.939	ug/l	96
53) 1,3-Dichloropropane	8.24	76	26037	4.901	ug/l	98
54) 2-Hexanone	8.37	43	58610	23.119	ug/l	99
55) Dibromochloromethane	8.48	129	17640	5.040	ug/l	100
56) 1,2-Dibromoethane	8.59	107	13606	5.013	ug/l	100
58) Tetrachloroethene	8.23	164	18629	5.165	ug/l	94
59) Chlorobenzene	9.12	112	49289	4.803	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.21	131	18387	4.941	ug/l	99
61) Pentachloroethane	11.10	117	14210	4.934	ug/l	99
62) Hexachloroethane	12.15	117	15257	4.917	ug/l	99
63) Ethyl Benzene	9.25	91	96268	5.074	ug/l	99
64) m/p-Xylenes	9.38	106	68870	9.928	ug/l	99
65) o-Xylene	9.78	106	33202	4.795	ug/l	99
66) Styrene	9.79	104	56380	4.920	ug/l	100
67) Bromoform	9.96	173	9931	4.892	ug/l	99
69) Isopropylbenzene	10.17	105	91404	4.931	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.46	83	17900	4.797	ug/l	96
71) 1,2,3-Trichloropropane	10.50	75	13832m	4.772	ug/l	
72) Bromobenzene	10.45	156	20699	4.996	ug/l	97
73) n-propylbenzene	10.59	120	24193	5.092	ug/l	99
74) 2-Chlorotoluene	10.66	126	20637	4.866	ug/l	96
75) 1,3,5-Trimethylbenzene	10.77	105	78212	5.057	ug/l	98
76) 4-Chlorotoluene	10.77	126	20788	5.090	ug/l	98
77) tert-Butylbenzene	11.10	119	75954	4.952	ug/l	98
78) 1,2,4-Trimethylbenzene	11.15	105	80279	5.035	ug/l	100
79) sec-Butylbenzene	11.32	105	100562	5.123	ug/l	100
80) Nitrobenzene	12.86	77	3454	19.921	ug/l #	97
81) p-Isopropyltoluene	11.48	119	83283	5.205	ug/l	99
82) 1,3-Dichlorobenzene	11.42	146	40584	5.095	ug/l	100
83) 1,4-Dichlorobenzene	11.51	146	40851	5.194	ug/l	99
84) n-Butylbenzene	11.89	91	82044	5.433	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	38019	5.008	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.66	75	3442	5.216	ug/l	96
87) 1,2,4-Trichlorobenzene	13.50	180	30021	5.392	ug/l	97
88) Hexachlorobutadiene	13.69	225	17383	5.244	ug/l	99
89) Naphthalene	13.74	128	54225	4.928	ug/l	99
90) 1,2,3-Trichlorobenzene	13.99	180	27319	5.311	ug/l	97

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1422

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 13338

Ion Ratio Lower Upper

96 100

70 22.9 17.7 26.5

95 9.7 7.0 10.6

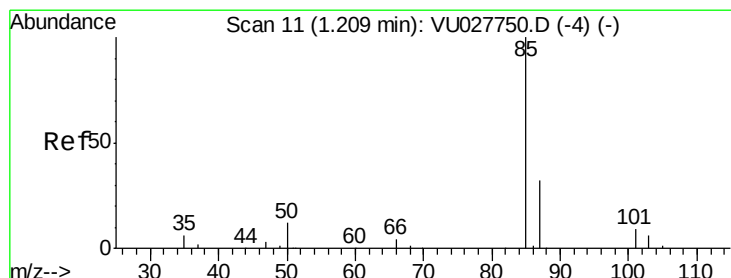
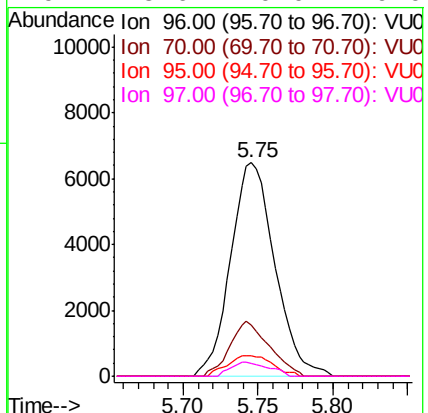
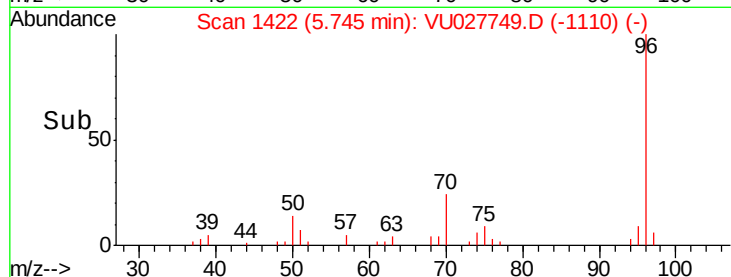
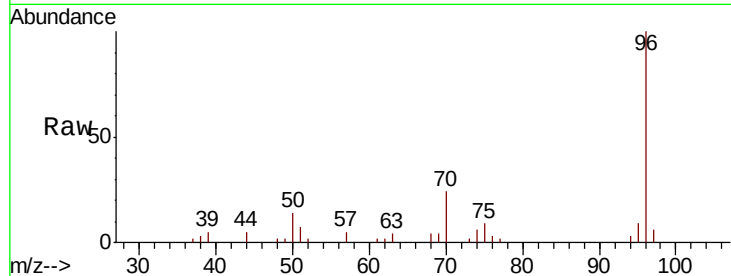
97 5.6 0.0 0.0#

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 4.706 ug/l

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027749.D

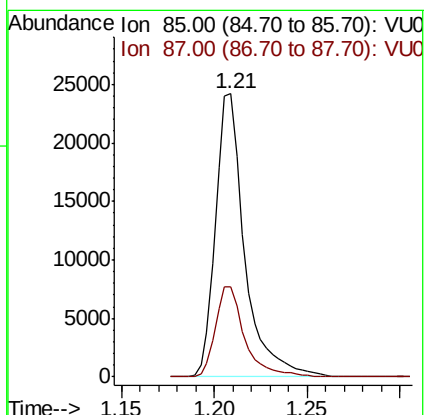
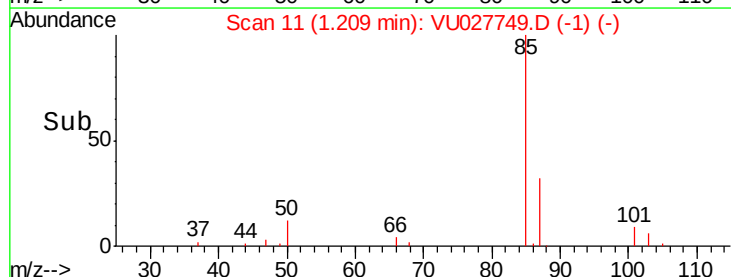
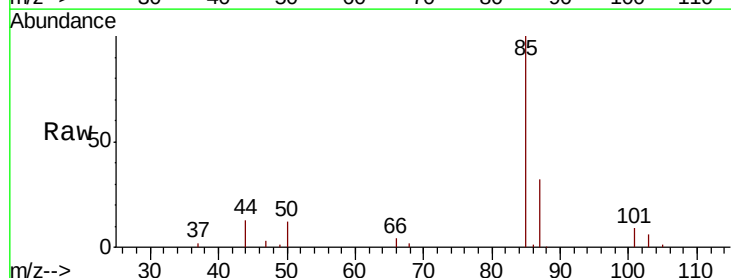
Acq: 22 Oct 2018 19:09

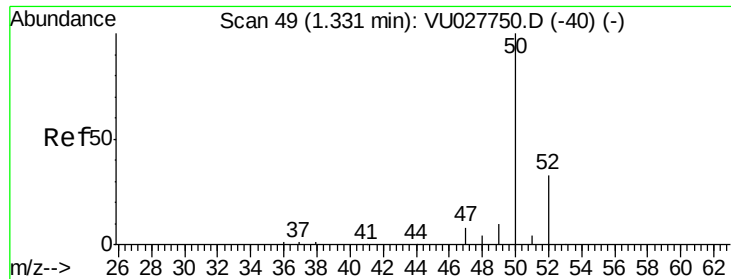
Tgt Ion: 85 Resp: 26478

Ion Ratio Lower Upper

85 100

87 32.0 15.9 47.6





#3
Chloromethane
Concen: 4.611 ug/l
RT: 1.33 min Scan# 49
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

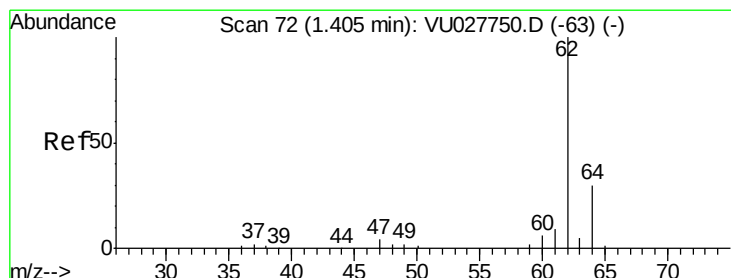
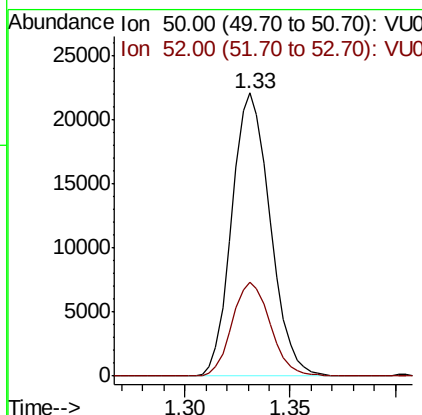
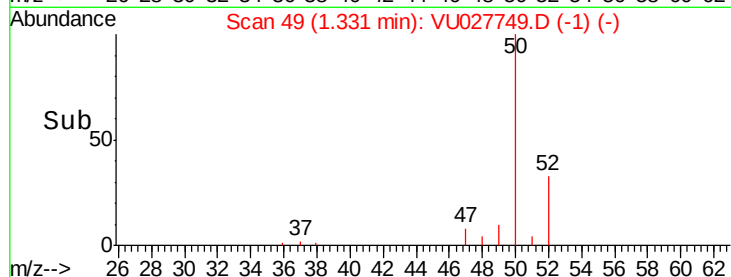
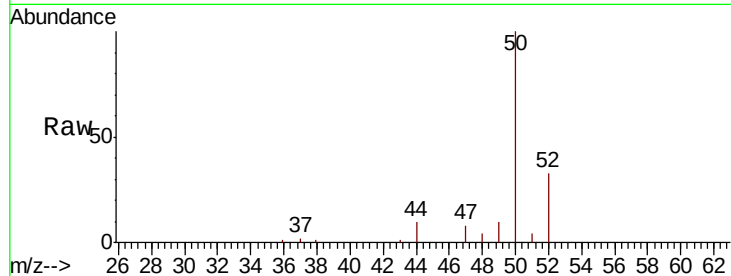
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 50 Resp: 27872
Ion Ratio Lower Upper
50 100
52 33.2 26.6 40.0

Manual Integrations
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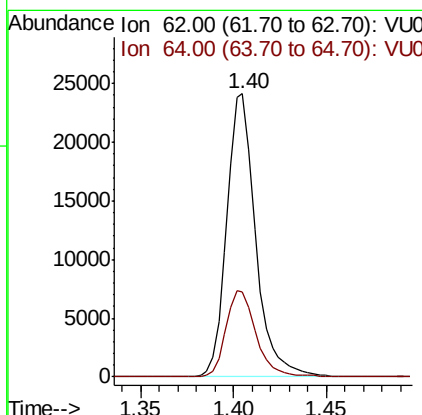
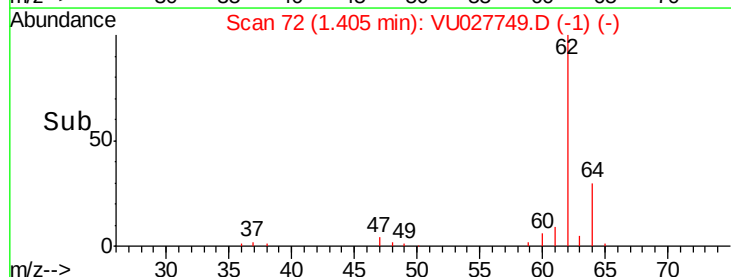
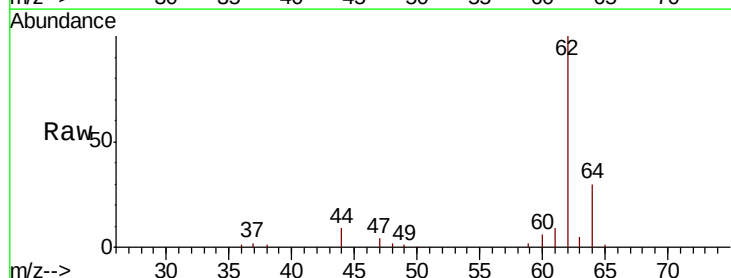
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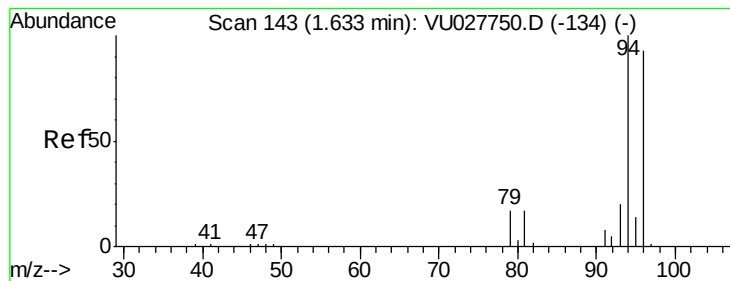
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#4
Vinyl Chloride
Concen: 4.628 ug/l
RT: 1.40 min Scan# 72
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion: 62 Resp: 26147
Ion Ratio Lower Upper
62 100
64 30.1 24.3 36.5





#5

Bromomethane

Concen: 5.090 ug/l

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 13783

Ion Ratio Lower Upper

94 100

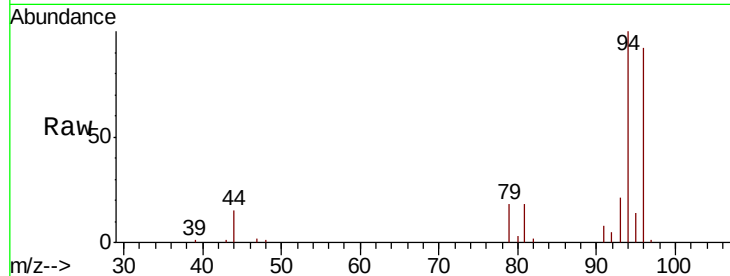
96 92.2 74.2 111.4

Manual Integrations

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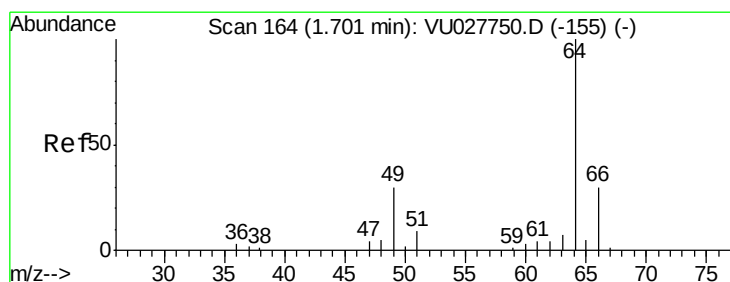
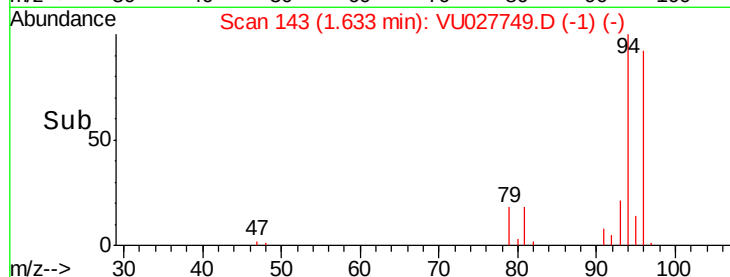
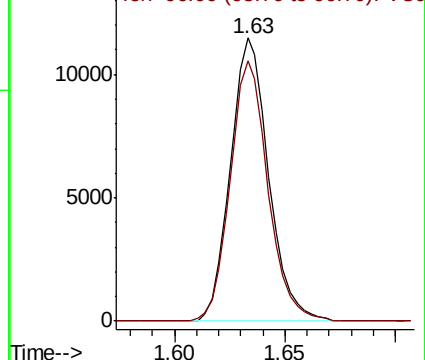
sam

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Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 4.037 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU027749.D

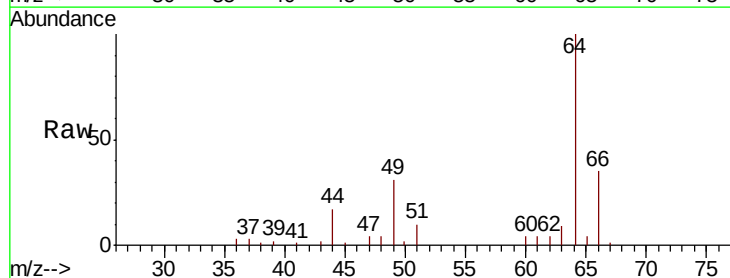
Acq: 22 Oct 2018 19:09

Tgt Ion: 64 Resp: 13612

Ion Ratio Lower Upper

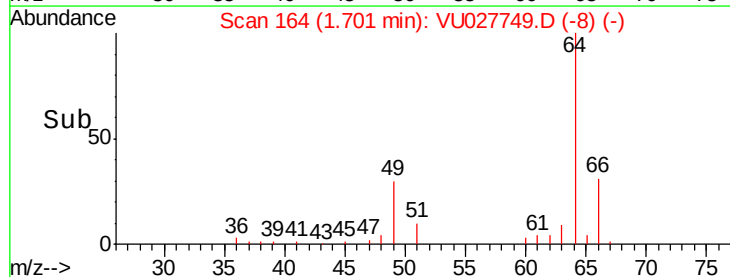
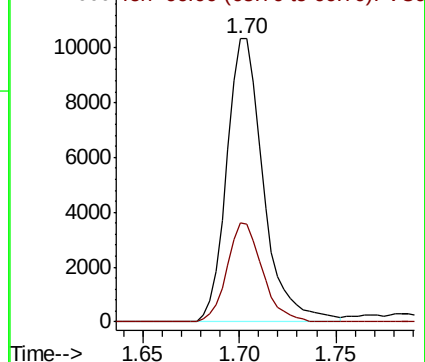
64 100

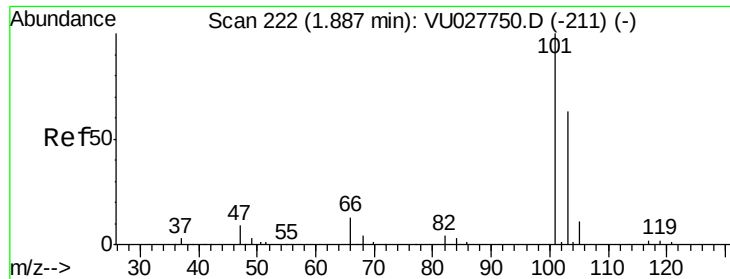
66 35.0 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

Trichlorofluoromethane
Concen: 4.929 ug/l
RT: 1.89 min Scan# 223
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

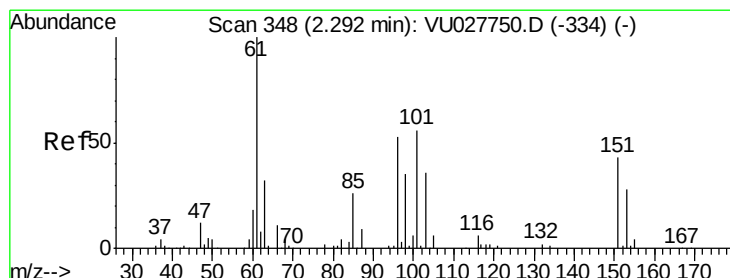
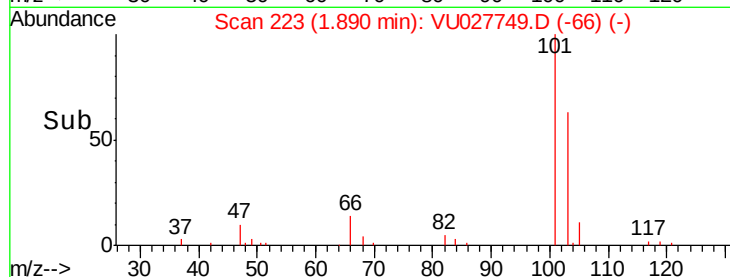
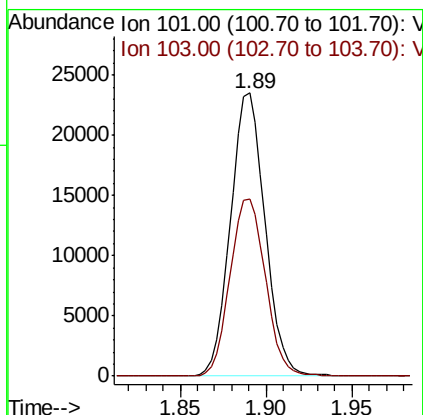
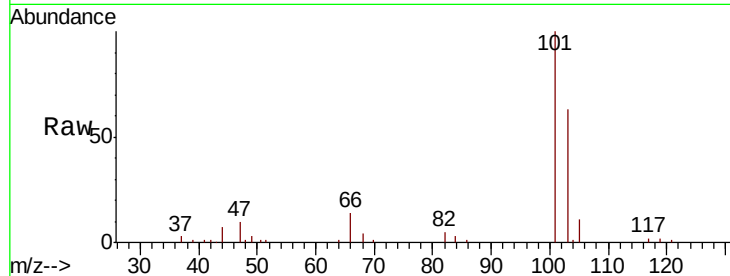
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 32730
Ion Ratio Lower Upper
101 100
103 62.8 50.2 75.2

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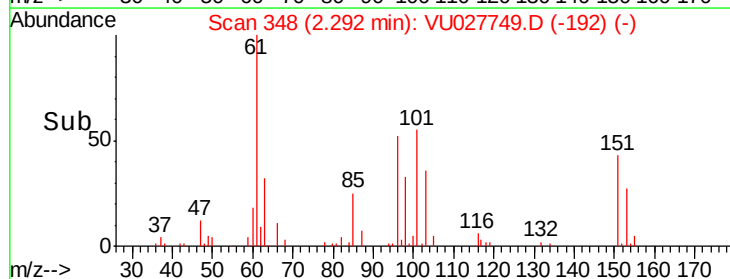
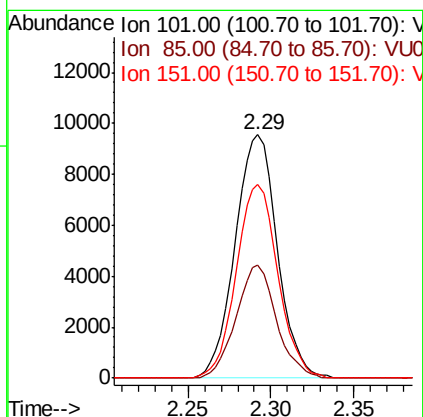
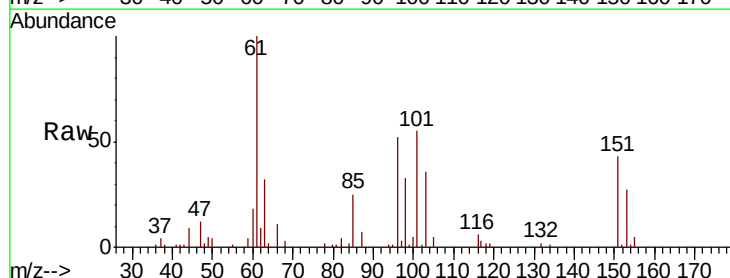
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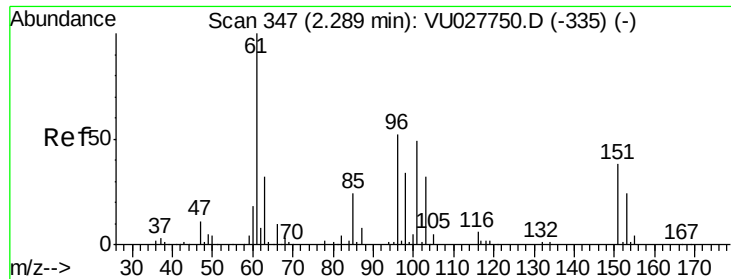


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 4.605 ug/l
RT: 2.29 min Scan# 348
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion:101 Resp: 16891
Ion Ratio Lower Upper
101 100
85 44.3 38.2 57.2
151 78.6 61.8 92.8





#9

1,1-Dichloroethene

Concen: 4.580 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

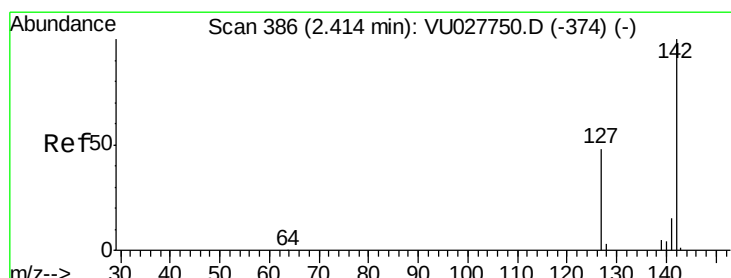
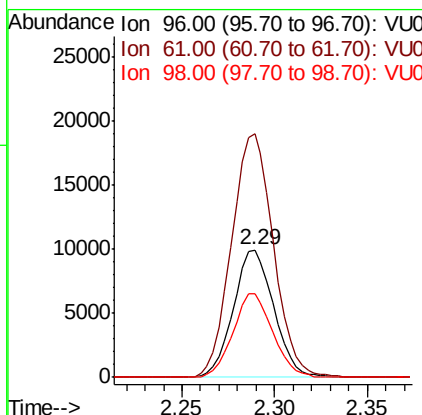
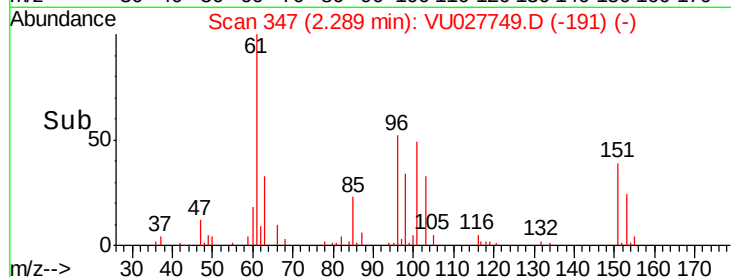
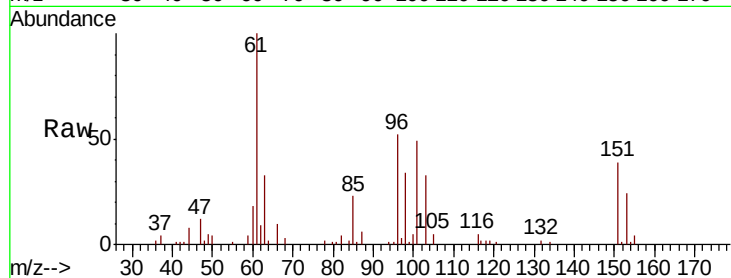
VSTDIC005

Tot Ion:	96	Resp:	14999
Ion	Ratio	Lower	Upper
96	100		
61	191.5	0.0	581.4
98	65.8	0.0	131.2

Manual Integrations
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#10

Iodomethane

Concen: 4.955 ug/l

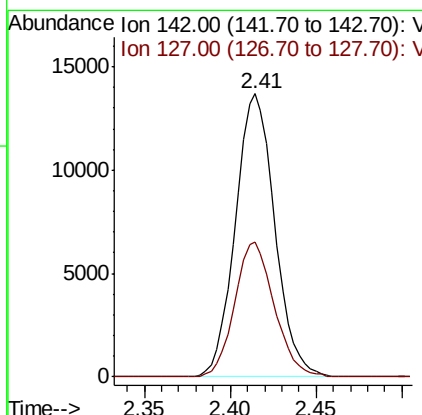
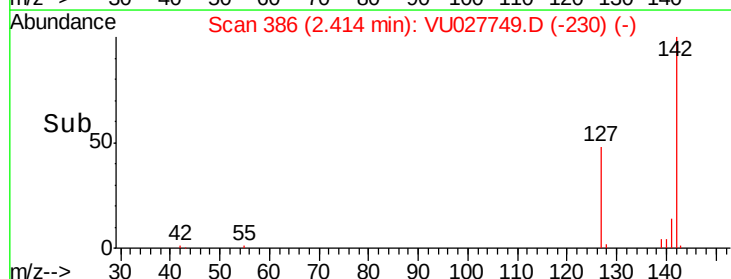
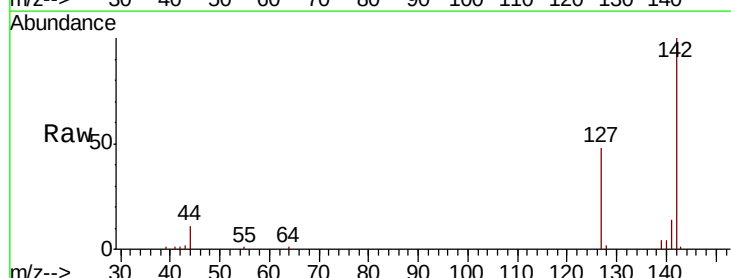
RT: 2.41 min Scan# 386

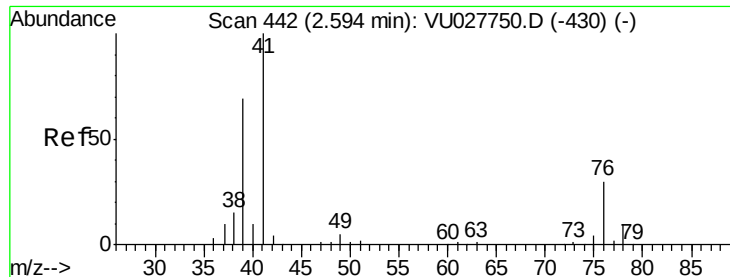
Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Tgt Ion:	142	Resp:	21834
Ion	Ratio	Lower	Upper
142	100		
127	47.7	39.2	58.8





#11
Allvl Chloride
Concen: 4.528 ug/l
RT: 2.59 min Scan# 442
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

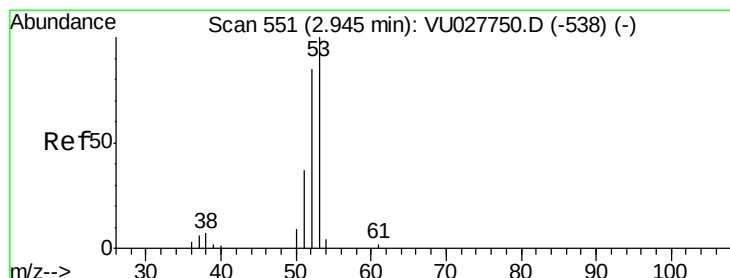
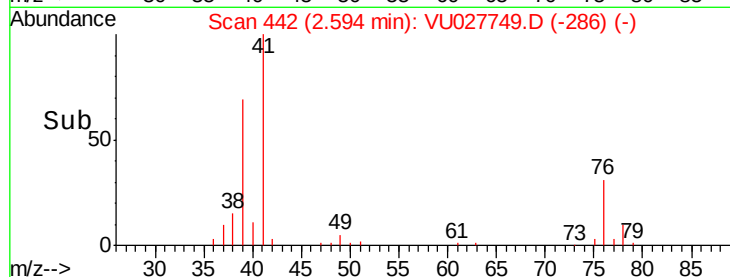
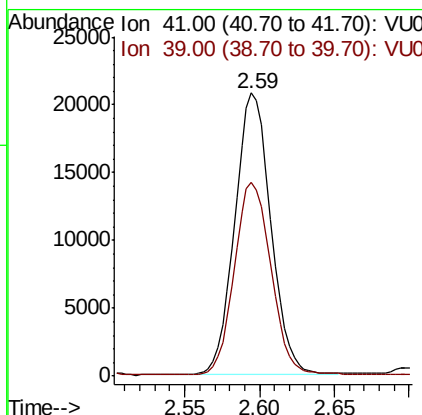
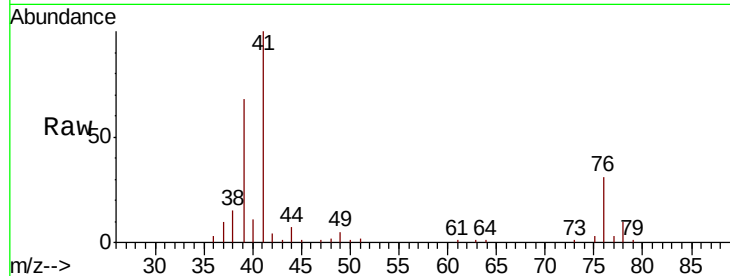
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 41 Resp: 34808
Ion Ratio Lower Upper
41 100
39 69.5 55.4 83.0

Manual Integrations
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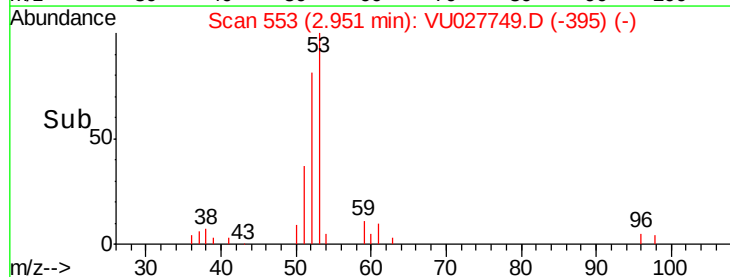
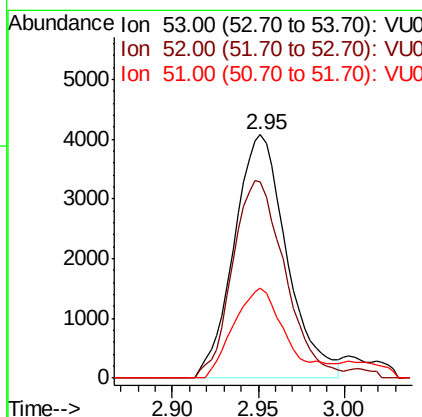
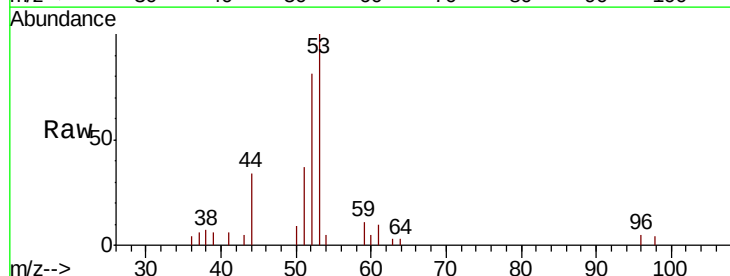
sam

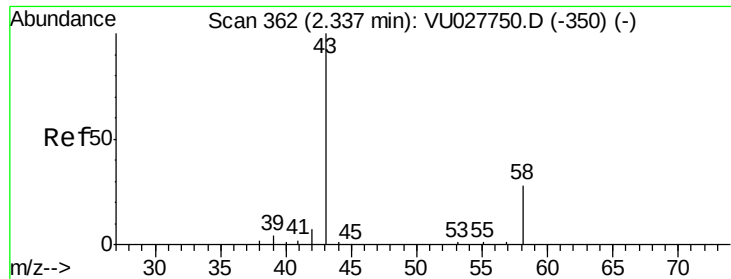
10/24/2018 2:20:16 PM



#12
Acrylonitrile
Concen: 8.305 ug/l
RT: 2.95 min Scan# 553
Delta R.T. 0.01 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion: 53 Resp: 8655
Ion Ratio Lower Upper
53 100
52 80.9 67.9 101.9
51 37.0 30.0 45.0





#13

Acetone

Concen: 22.796 ug/l

RT: 2.34 min Scan# 364

Delta R.T. 0.01 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 17884

Ion Ratio Lower Upper

43 100

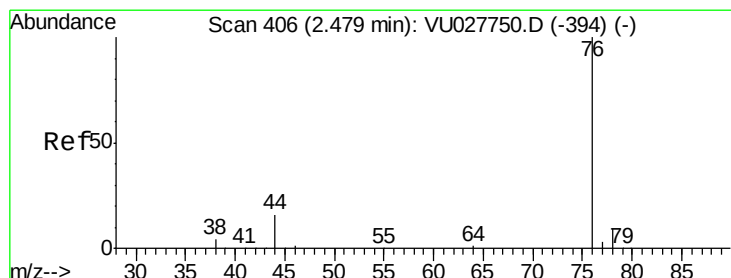
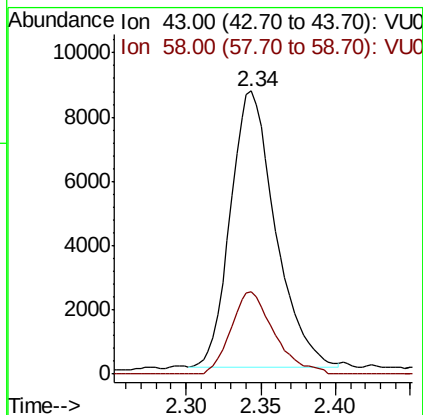
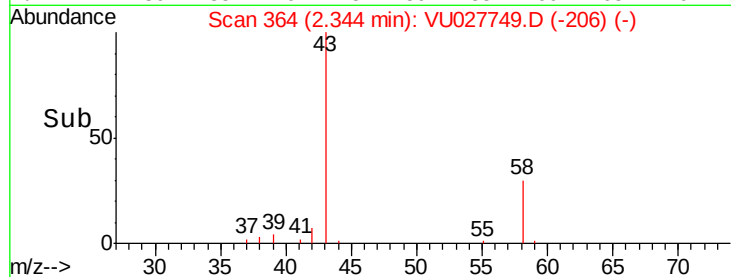
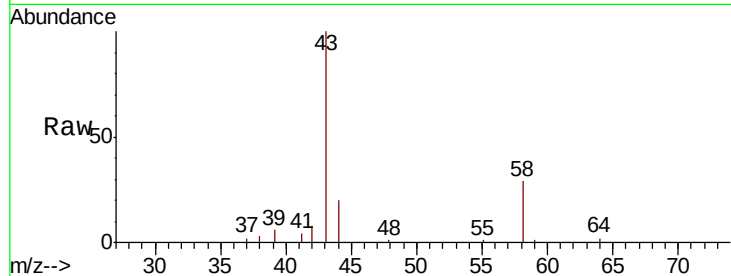
58 29.9 22.3 33.5

Manual Integrations

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sam

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#14

Carbon Disulfide

Concen: 4.672 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027749.D

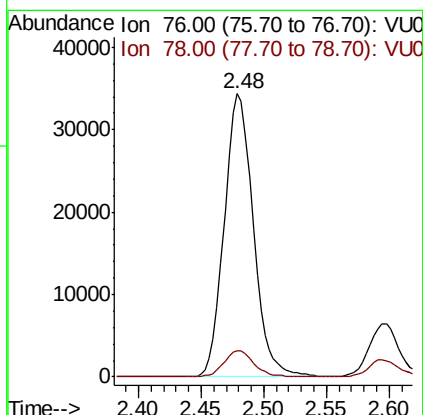
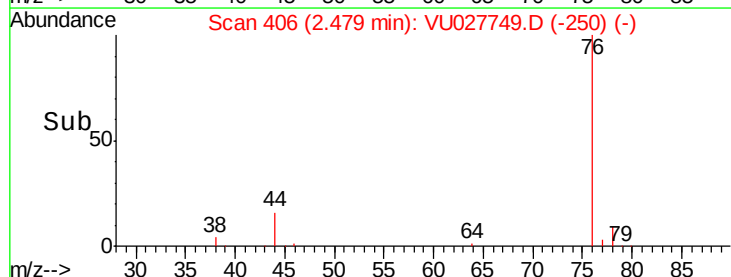
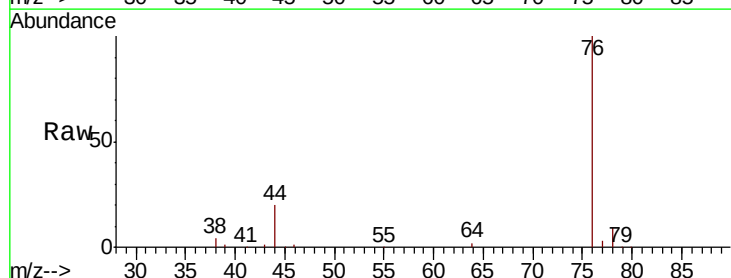
Acq: 22 Oct 2018 19:09

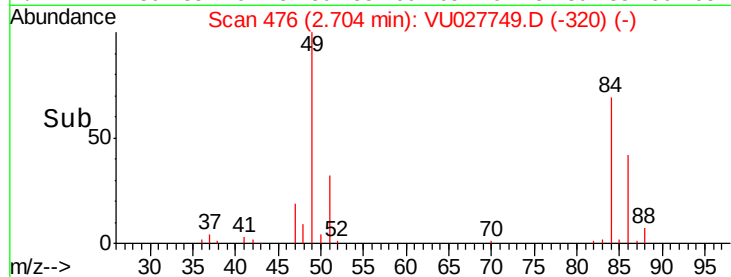
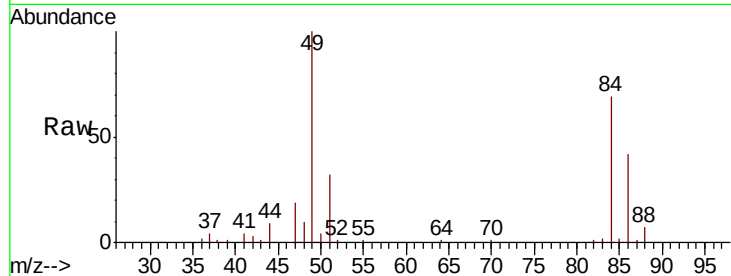
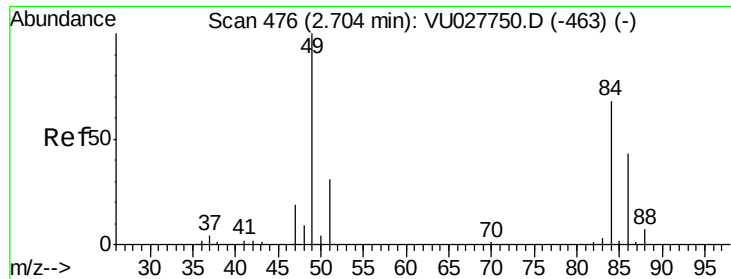
Tgt Ion: 76 Resp: 55475

Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7





#15
Methvlene Chloride
Concen: 4.467 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

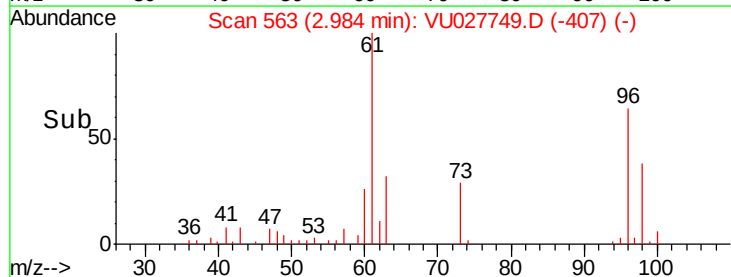
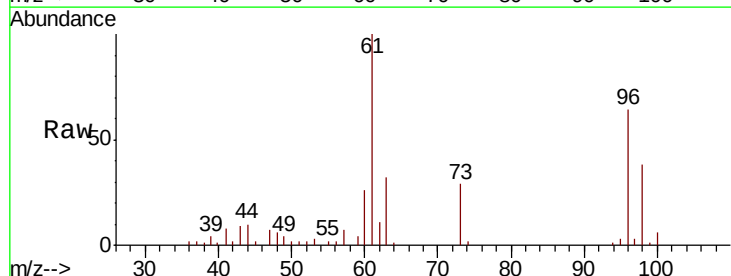
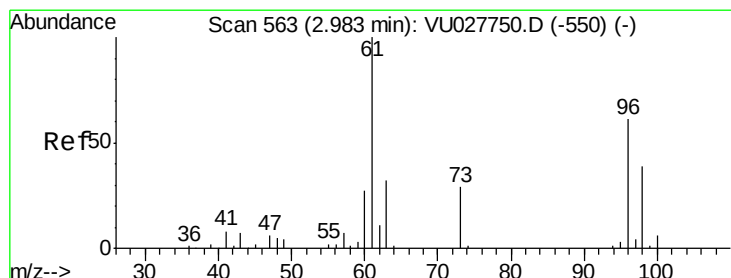
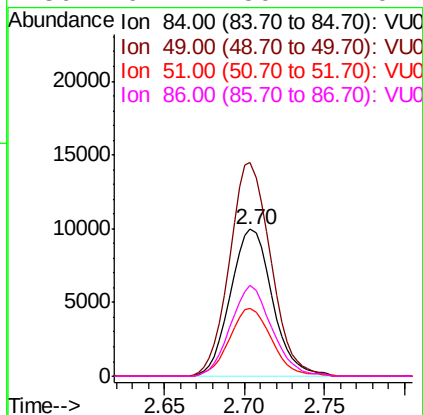
Tot Ion:	84	Resp:	17863
Ion	Ratio	Lower	Upper
84	100		
49	145.3	118.5	177.7
51	46.2	0.0	91.0
86	61.4	50.7	76.1

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Manual Integrations
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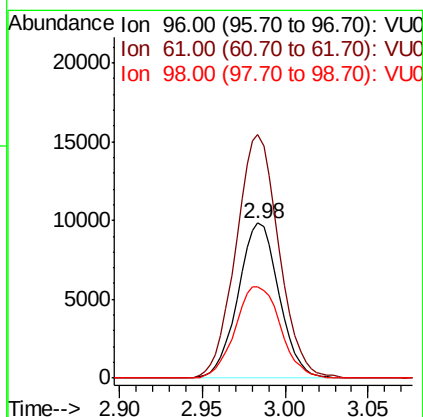
sam

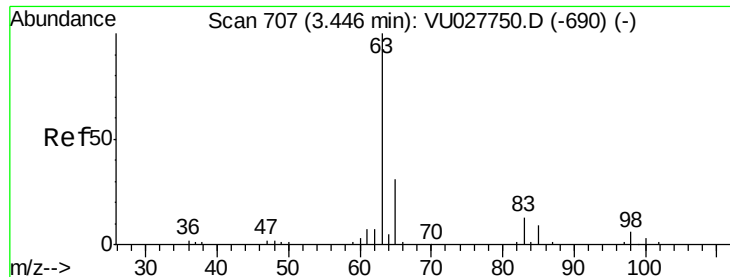
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#16
trans-1,2-Dichloroethene
Concen: 4.613 ug/l
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion:	96	Resp:	16948
Ion	Ratio	Lower	Upper
96	100		
61	156.9	131.8	197.6
98	58.9	51.2	76.8





#17
 1,1-Dichloroethane
 Concen: 4.776 ug/l
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

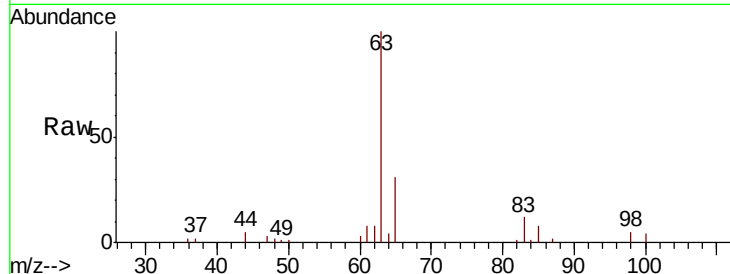
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	63	Resp:	36625
Ion	Ratio	Lower	Upper
63	100		
98	5.5	2.8	8.4
100	3.7	1.5	4.5

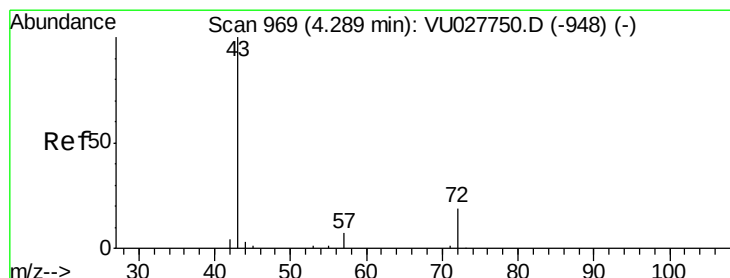
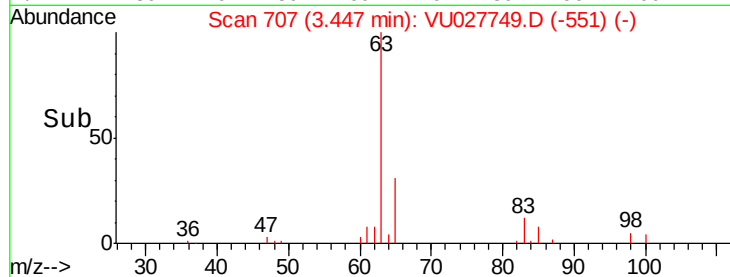
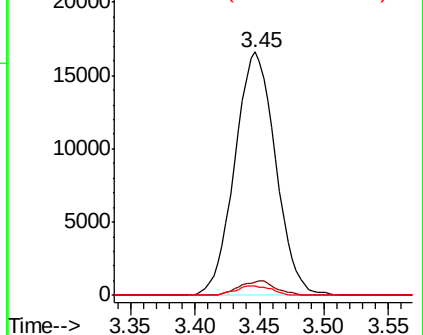
Manual Integrations
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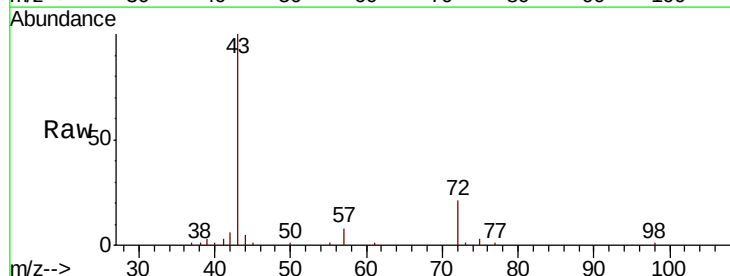


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

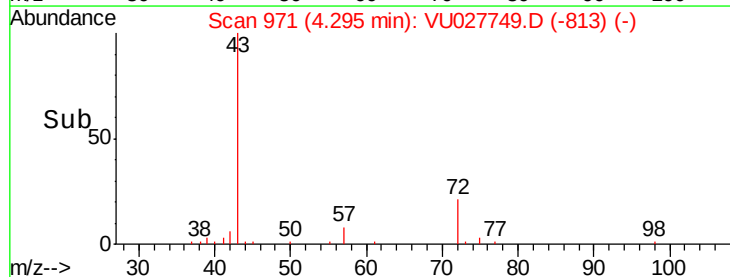
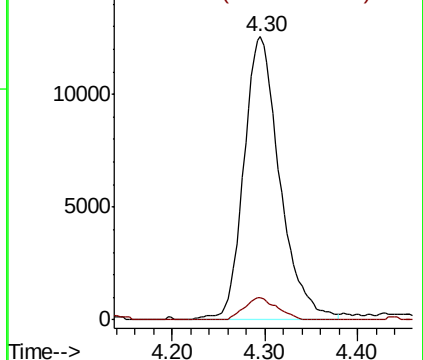


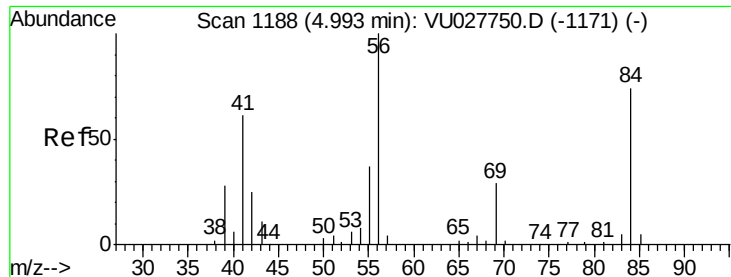
#18
 2-Butanone
 Concen: 24.035 ug/l
 RT: 4.30 min Scan# 971
 Delta R.T. 0.01 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion:	43	Resp:	33894
Ion	Ratio	Lower	Upper
43	100		
57	8.0	0.0	14.4



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





#19
Cyclohexane
Concen: 4.745 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

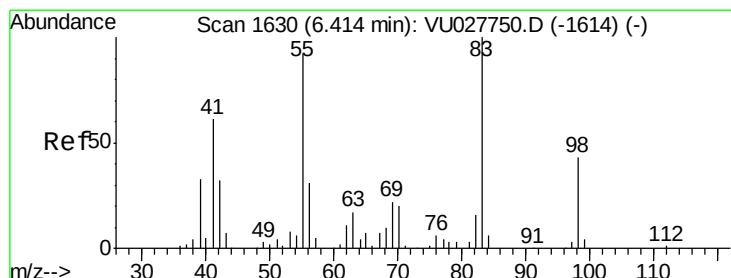
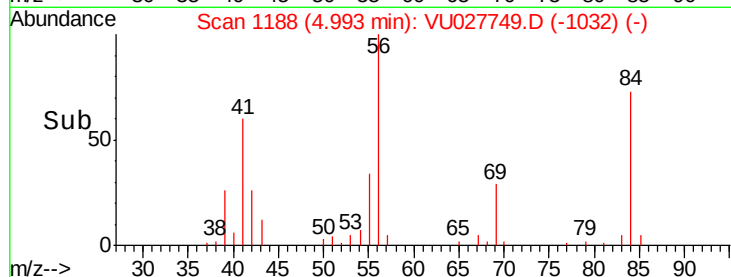
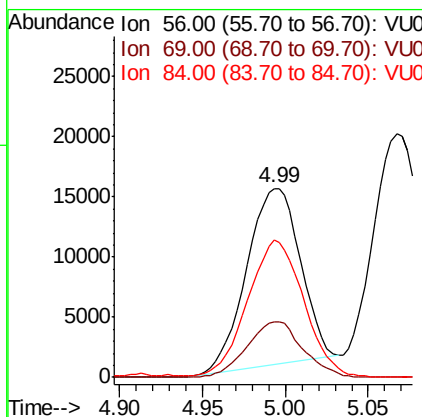
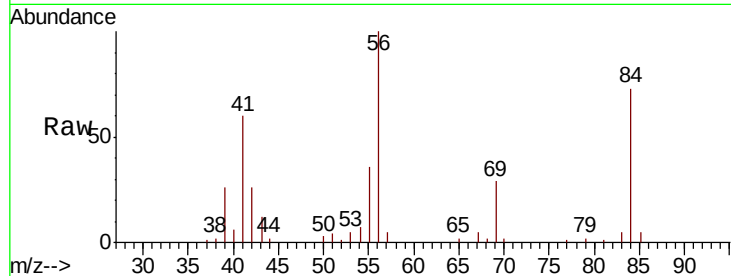
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:	56	Resp:	33293
Ion	Ratio	Lower	Upper
56	100		
69	32.6	25.9	38.9
84	80.2	65.9	98.9

Manual Integrations
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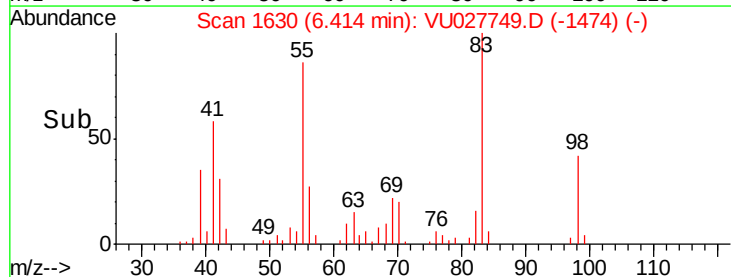
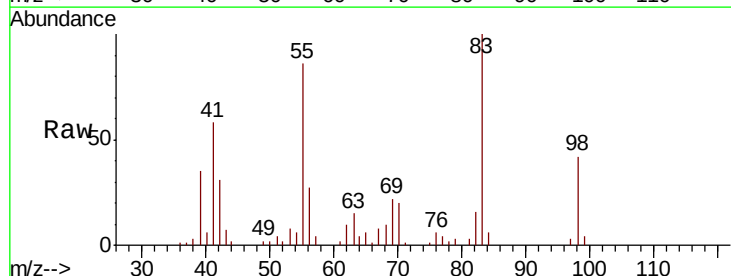
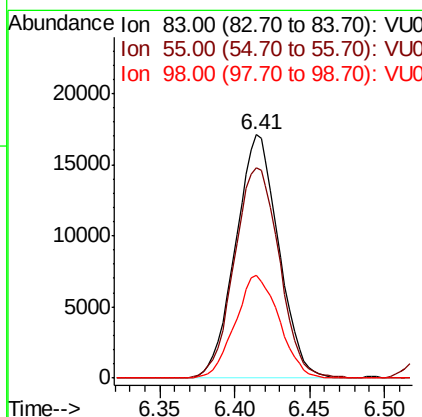
sam

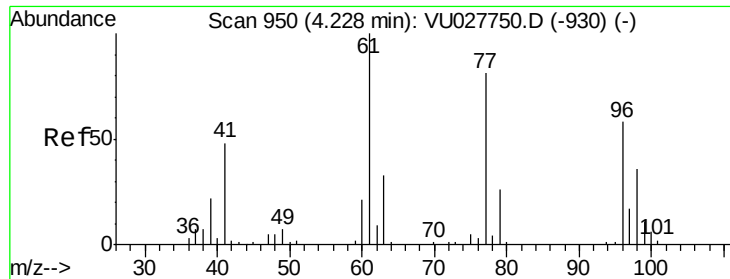
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#20
Methylcyclohexane
Concen: 4.986 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion:	83	Resp:	34181
Ion	Ratio	Lower	Upper
83	100		
55	90.5	72.6	108.8
98	43.0	35.0	52.4





#21
 2,2-Dichloropropane
 Concen: 4.633 ug/l
 RT: 4.23 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

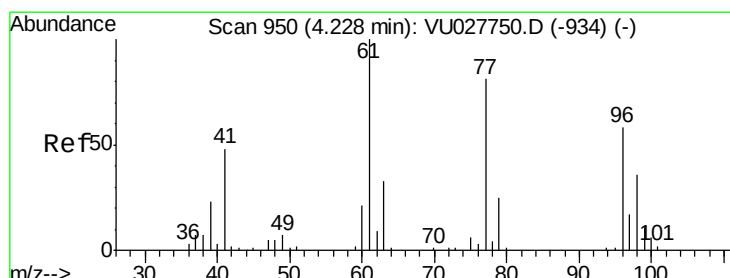
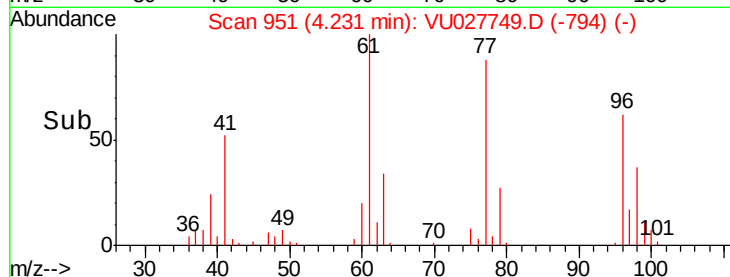
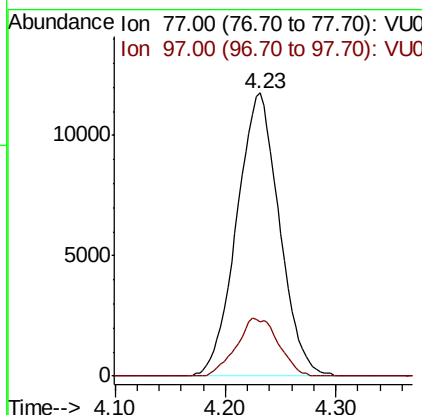
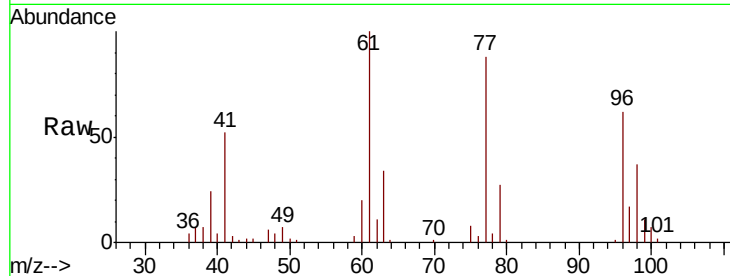
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion: 77 Resp: 31485
 Ion Ratio Lower Upper
 77 100
 97 20.1 16.9 25.3

Manual Integrations
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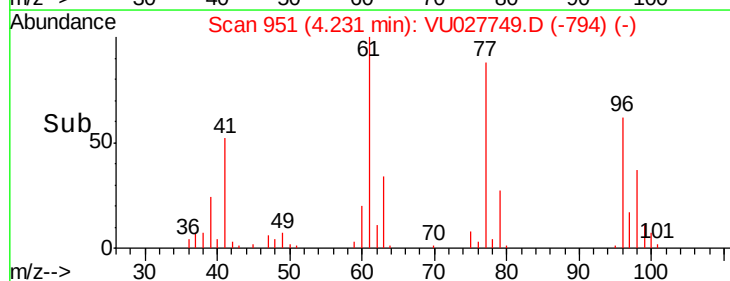
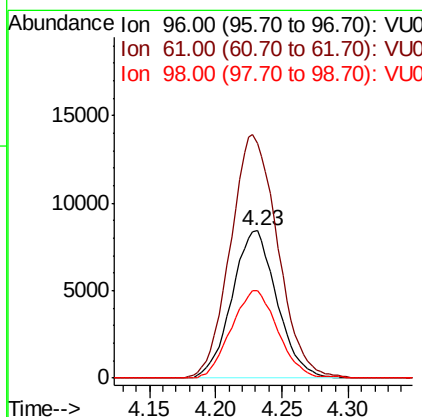
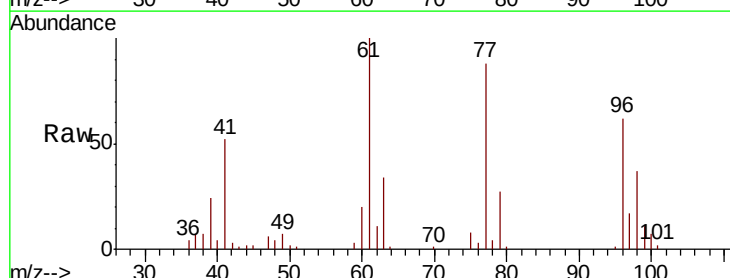
sam

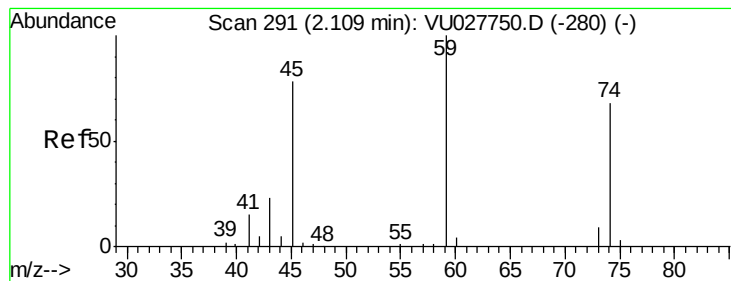
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#22
 cis-1,2-Dichloroethene
 Concen: 4.763 ug/l
 RT: 4.23 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion: 96 Resp: 19865
 Ion Ratio Lower Upper
 96 100
 61 173.7 0.0 444.0
 98 61.1 31.9 95.5





#23

Diethyl Ether

Concen: 4.658 ug/l

RT: 2.11 min Scan# 291

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

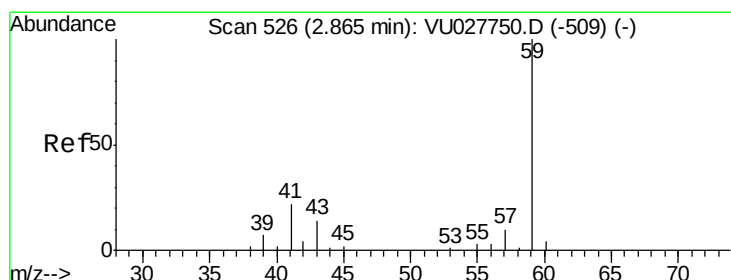
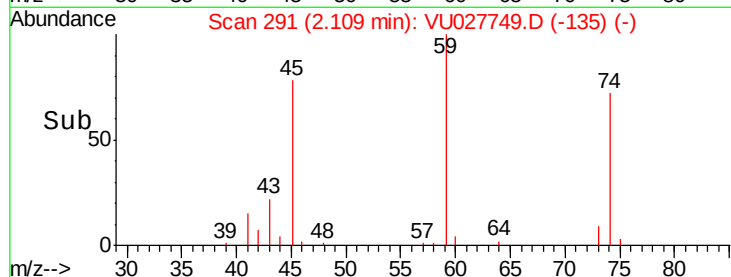
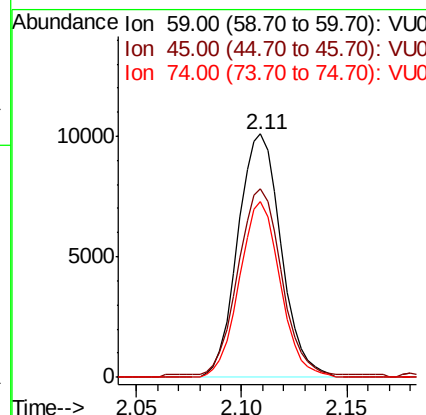
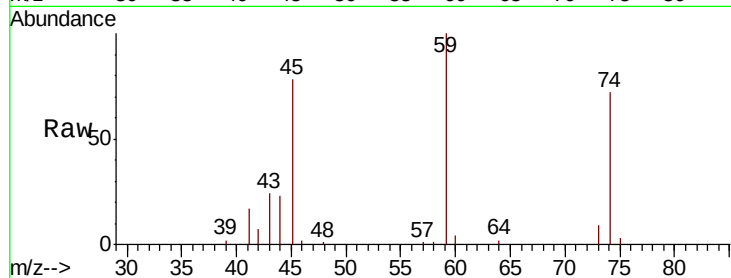
VSTDIC005

Tot Ion:	59	Resp:	14383
Ion	Ratio	Lower	Upper
59	100		
45	76.4	64.6	96.8
74	68.1	54.8	82.2

Manual Integrations
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#24

tert-Butyl Alcohol

Concen: 49.022 ug/l m

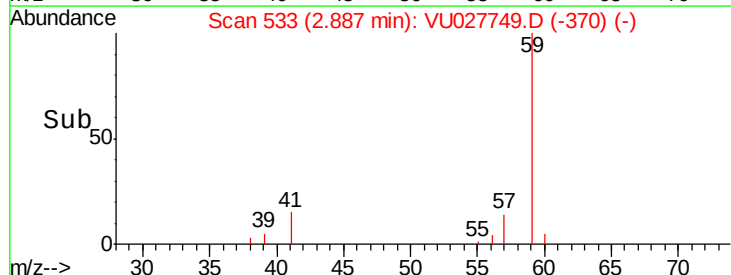
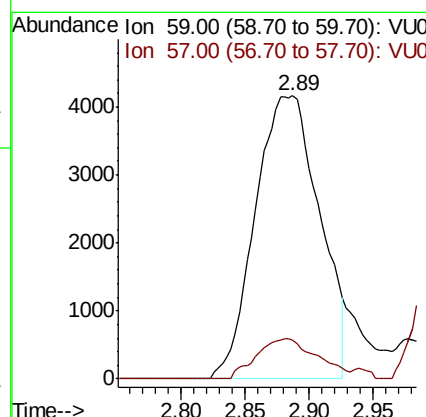
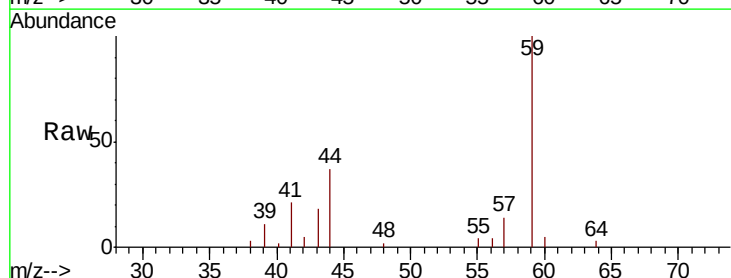
RT: 2.89 min Scan# 533

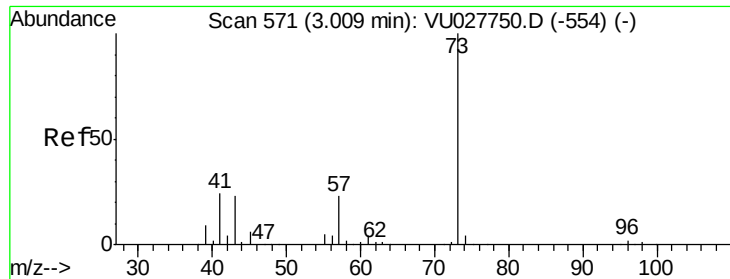
Delta R.T. 0.02 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Tgt Ion:	59	Resp:	14493
Ion	Ratio	Lower	Upper
59	100		
57	13.4	4.4	6.6#





#25

Methyl tert-Butyl Ether

Concen: 4.657 ug/l

RT: 3.01 min Scan# 571

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 73 Resp: 48278

Ion Ratio Lower Upper

73 100

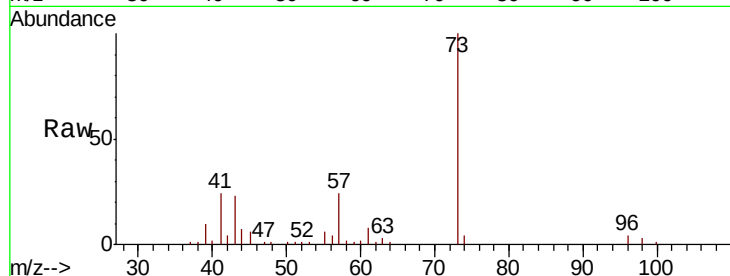
43 23.2 18.6 27.8

Manual Integrations

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sam

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Abundance Ion 73.00 (72.70 to 73.70): VU027750.D (-554) (-)

Ion 43.00 (42.70 to 43.70): VU027750.D (-554) (-)

25000

20000

15000

10000

5000

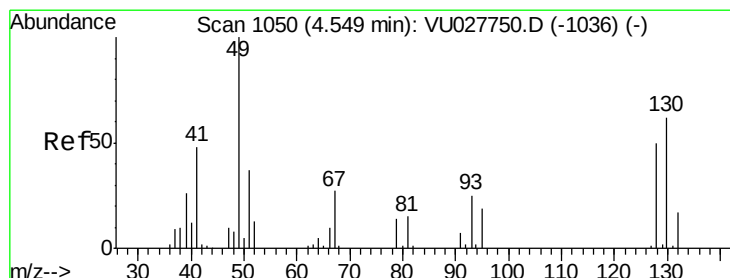
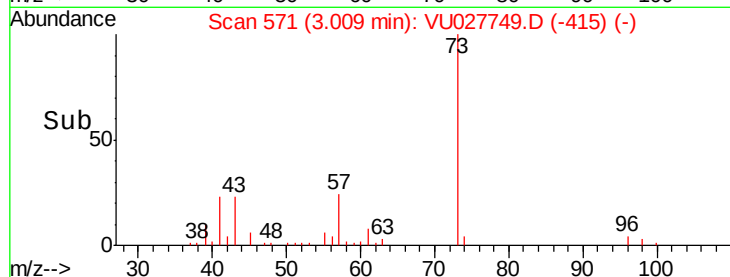
0

Time-->

2.90

3.01

3.10



#26

Bromochloromethane

Concen: 4.967 ug/l

RT: 4.55 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

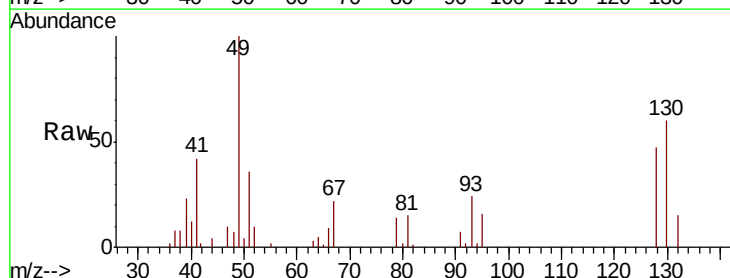
Tgt Ion: 128 Resp: 8386

Ion Ratio Lower Upper

128 100

49 207.7 0.0 427.6

130 125.6 103.4 155.0



Abundance Ion 128.00 (127.70 to 128.70): VU027750.D (-1036) (-)

Ion 49.00 (48.70 to 49.70): VU027750.D (-1036) (-)

Ion 130.00 (129.70 to 130.70): VU027750.D (-1036) (-)

10000

8000

6000

4000

2000

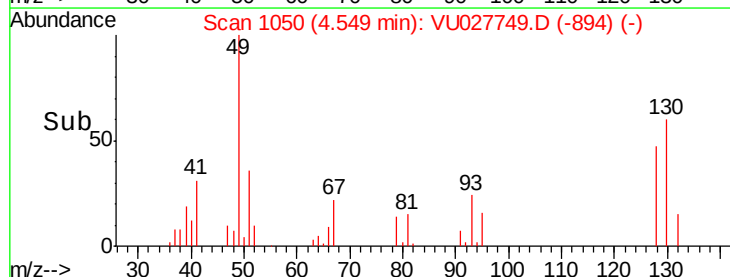
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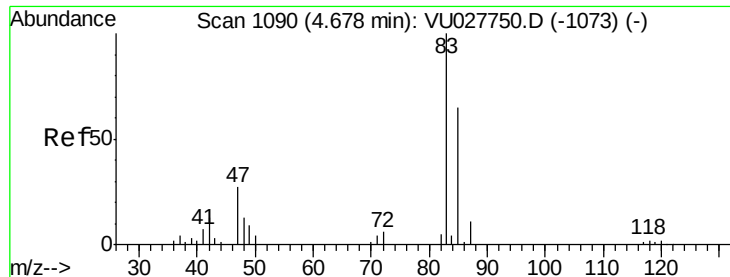
Time-->

4.50

4.55

4.60





#27
Chloroform
Concen: 4.719 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

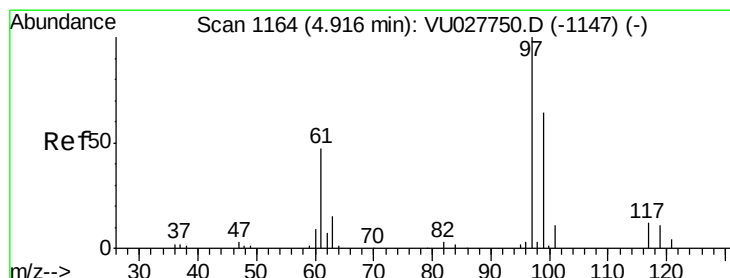
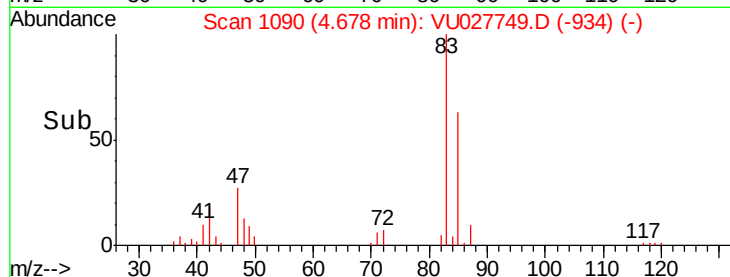
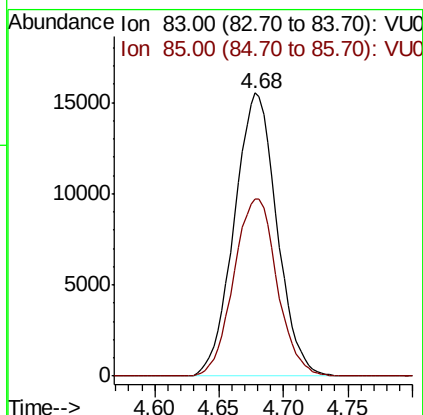
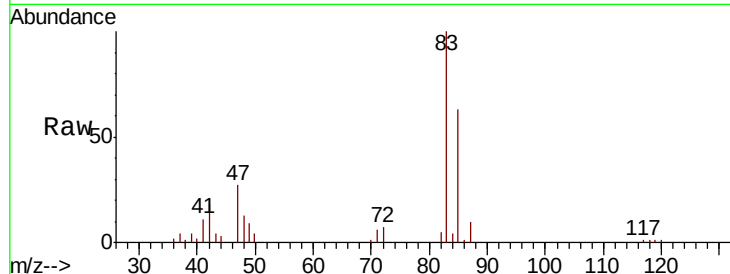
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	83.00	Resp	35699
Ion	Ratio	Lower	Upper
83	100		
85	62.6	0.0	130.2

Manual Integrations
APPROVED

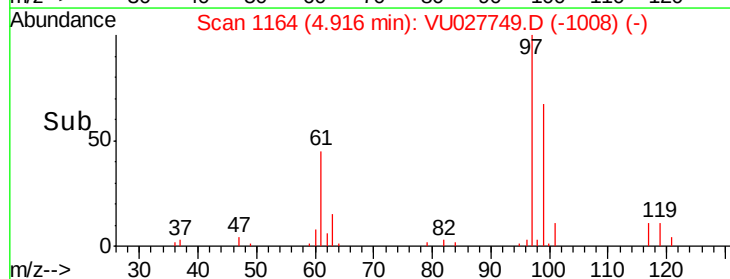
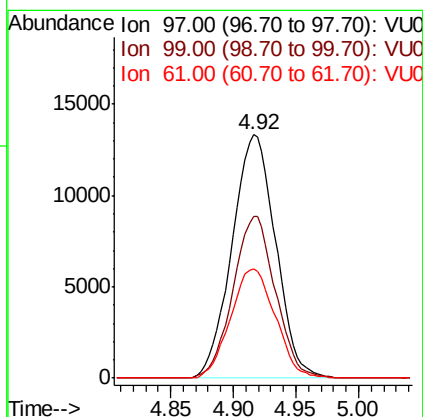
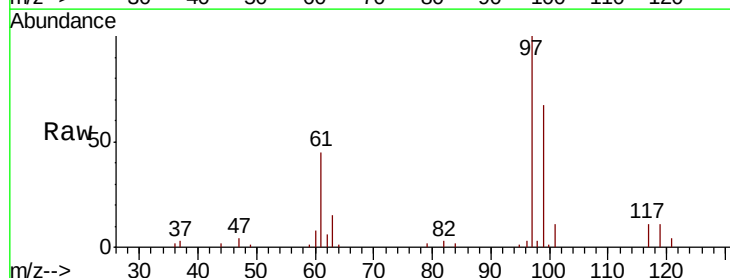
sam

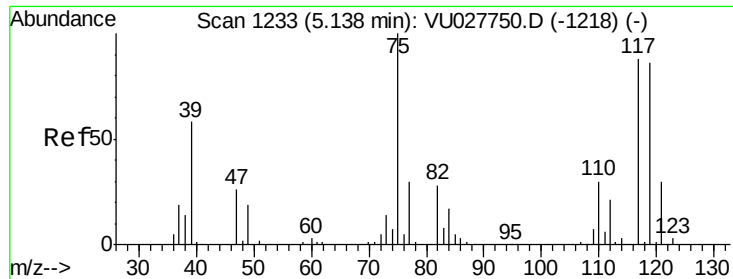
10/24/2018 2:20:16 PM



#28
1,1,1-Trichloroethane
Concen: 4.941 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion	97	Resp	32258
Ion	Ratio	Lower	Upper
97	100		
99	64.5	31.8	95.4
61	46.0	23.6	70.8





#29
 1,1-Dichloropropene
 Concen: 4.921 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

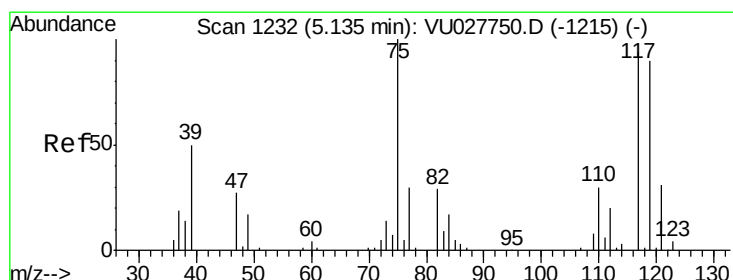
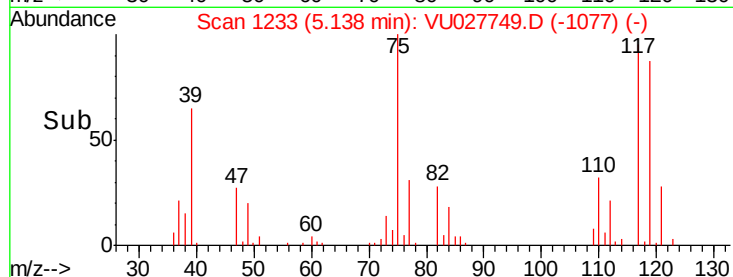
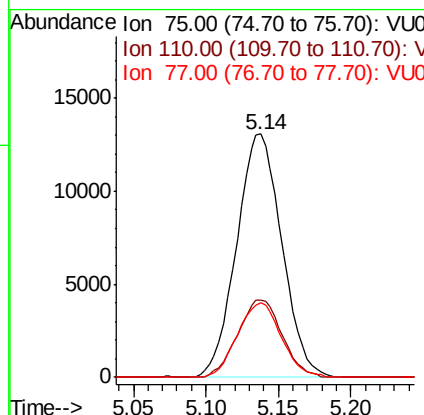
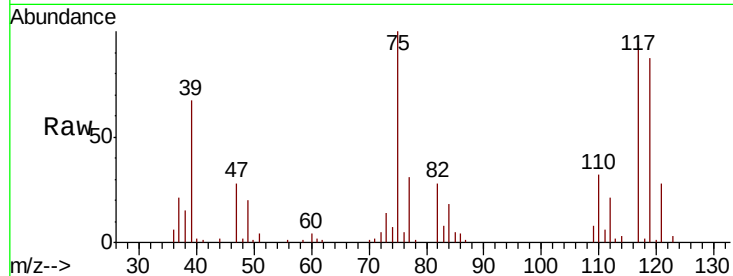
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
110	31.3	15.6	46.8
77	29.8	24.5	36.7

Manual Integrations
 APPROVED

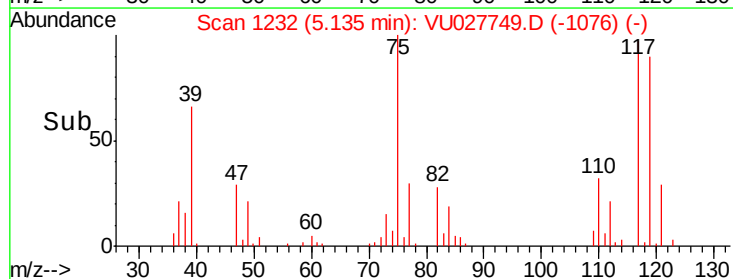
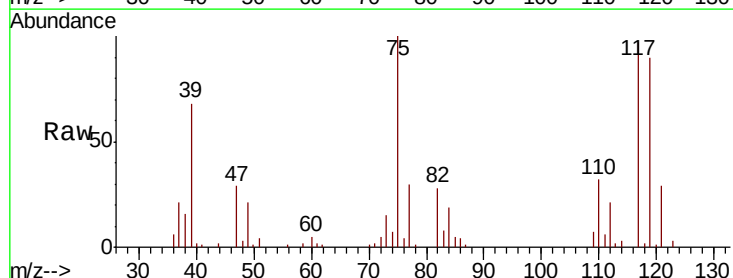
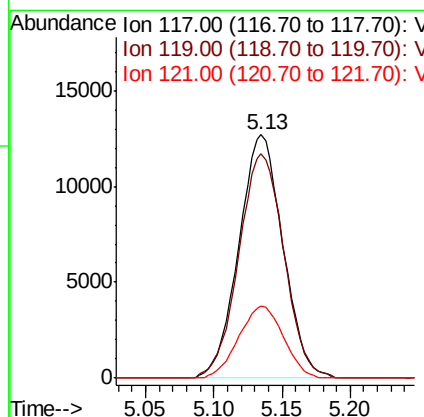
sam

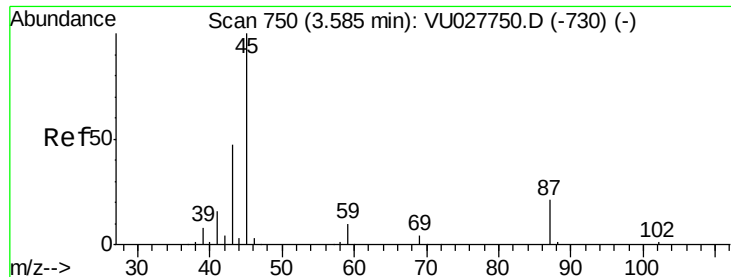
10/24/2018 2:20:16 PM



#30
 Carbon Tetrachloride
 Concen: 4.885 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.3	76.2	114.4
121	29.7	26.4	39.6





#31

Isopropyl Ether

Concen: 4.586 ug/l

RT: 3.58 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 45 Resp: 66066

Ion Ratio Lower Upper

45 100

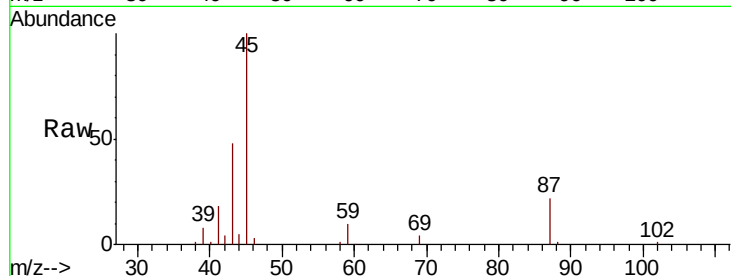
43 50.2 24.5 73.5

Manual Integrations

APPROVED

sam

10/24/2018 2:20:16 PM



Abundance Ion 45.00 (44.70 to 45.70): VU027749.D (-749) (-)

Ion 43.00 (42.70 to 43.70): VU027749.D (-749) (-)

30000

25000

20000

15000

10000

5000

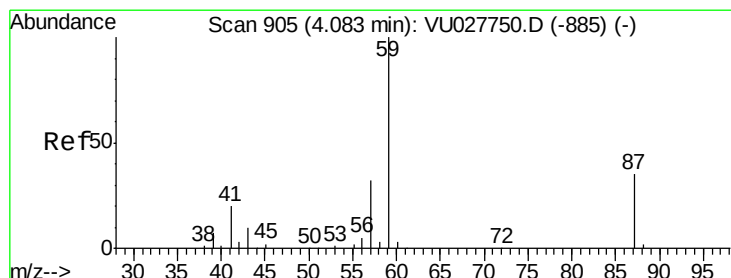
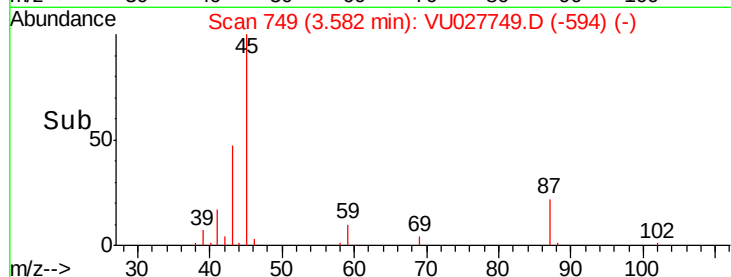
0

Time-->

3.50

3.60

3.70



#32

Ethyl-t-butyl ether

Concen: 4.681 ug/l

RT: 4.08 min Scan# 905

Delta R.T. 0.00 min

Lab File: VU027749.D

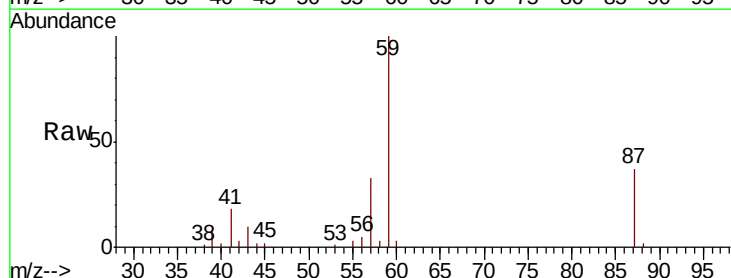
Acq: 22 Oct 2018 19:09

Tgt Ion: 59 Resp: 59501

Ion Ratio Lower Upper

59 100

87 36.0 29.4 44.0



Abundance Ion 59.00 (58.70 to 59.70): VU027749.D (-749) (-)

Ion 87.00 (86.70 to 87.70): VU027749.D (-749) (-)

25000

20000

15000

10000

5000

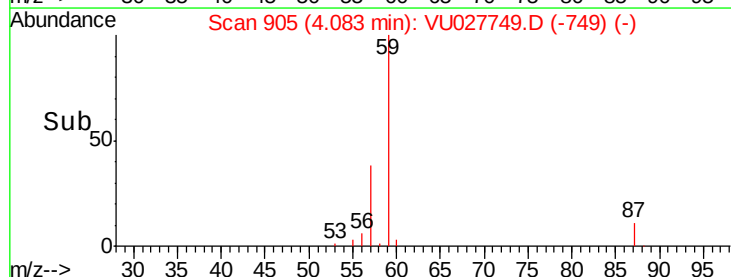
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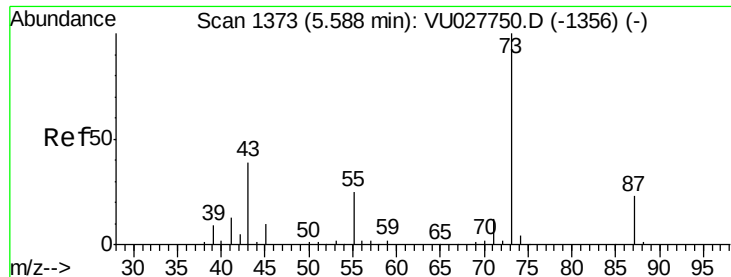
Time-->

4.00

4.10

4.20





#33
Tert-Butyl methyl ether
Concen: 4.718 ug/l
RT: 5.59 min Scan# 1373
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

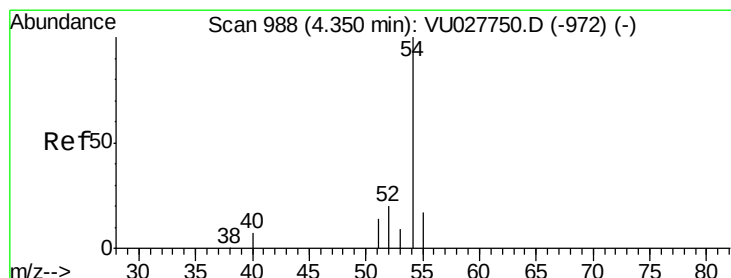
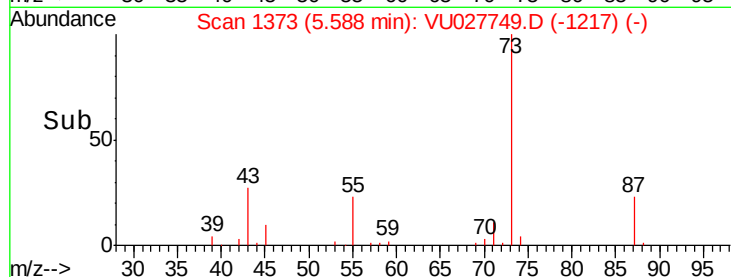
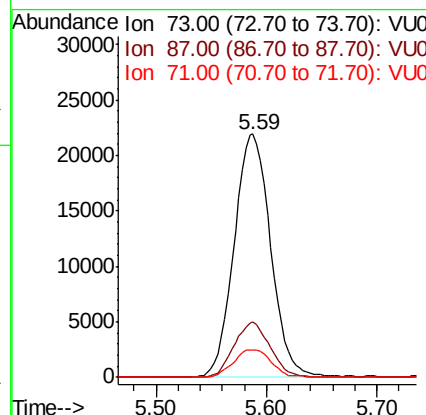
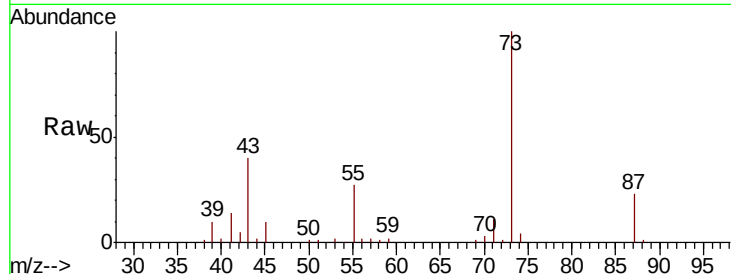
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:	73	Resp:	50382
Ion	Ratio	Lower	Upper
73	100		
87	22.3	18.5	27.7
71	11.8	9.1	13.7

Manual Integrations
APPROVED

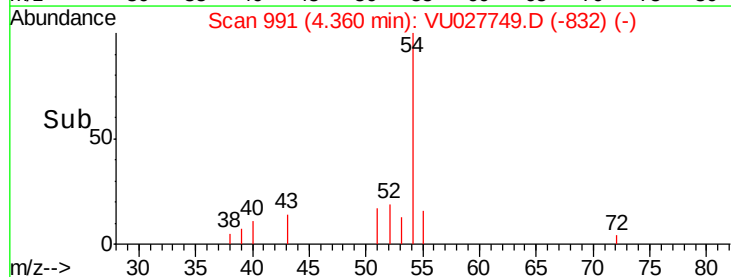
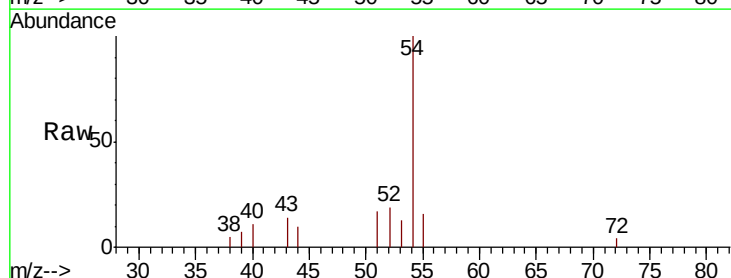
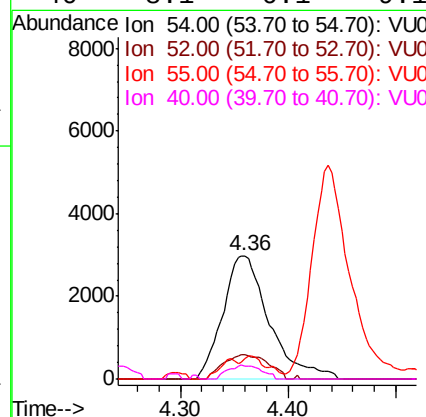
sam

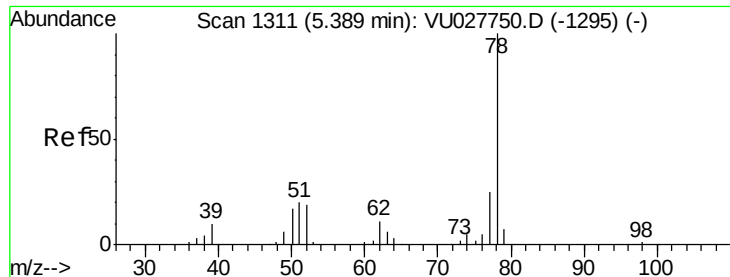
10/24/2018 2:20:16 PM



#34
Propionitrile
Concen: 23.520 ug/l
RT: 4.36 min Scan# 991
Delta R.T. 0.01 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion:	54	Resp:	8909
Ion	Ratio	Lower	Upper
54	100		
52	19.1	15.5	23.3
55	7.0	12.6	18.8#
40	8.1	6.1	9.1





#35

Benzene

Concen: 4.868 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 78 Resp: 78776

Ion Ratio Lower Upper

78 100

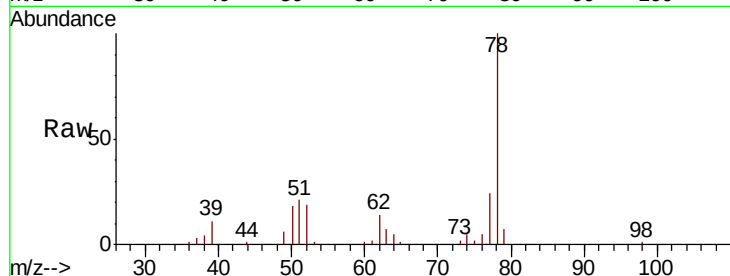
77 24.3 19.9 29.9

Manual Integrations

APPROVED

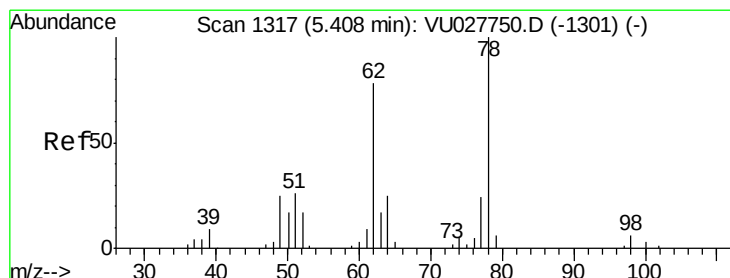
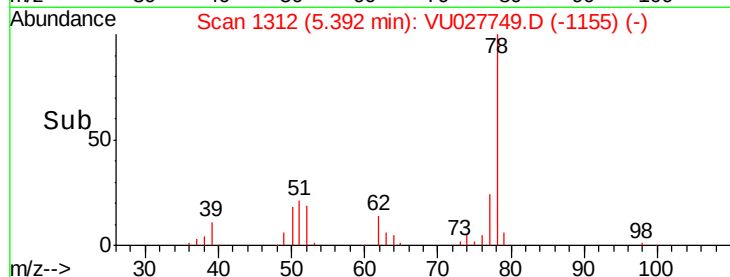
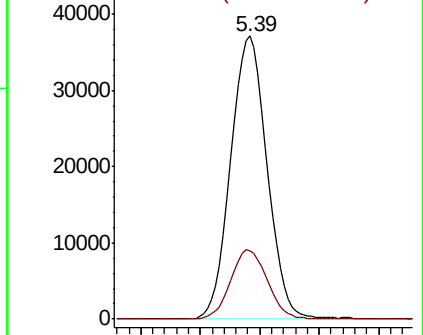
sam

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Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0



#36

1,2-Dichloroethane

Concen: 5.053 ug/l

RT: 5.41 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VU027749.D

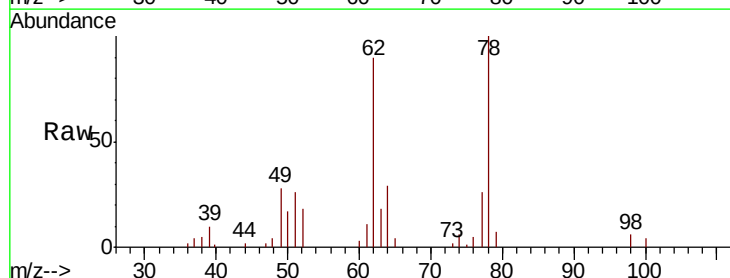
Acq: 22 Oct 2018 19:09

Tgt Ion: 62 Resp: 26068

Ion Ratio Lower Upper

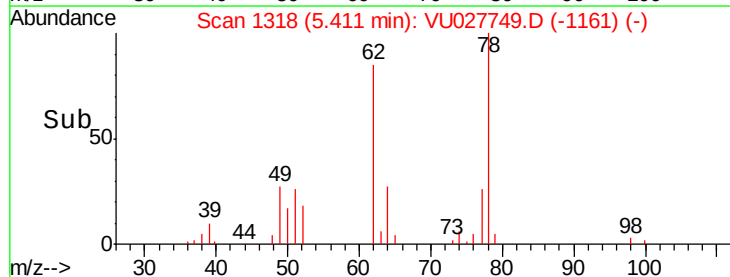
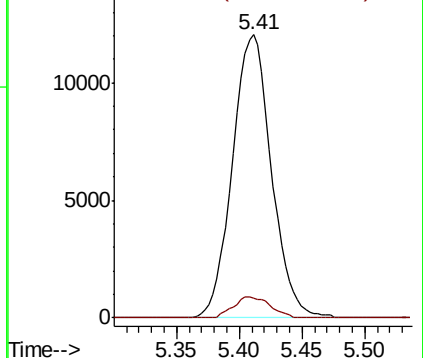
62 100

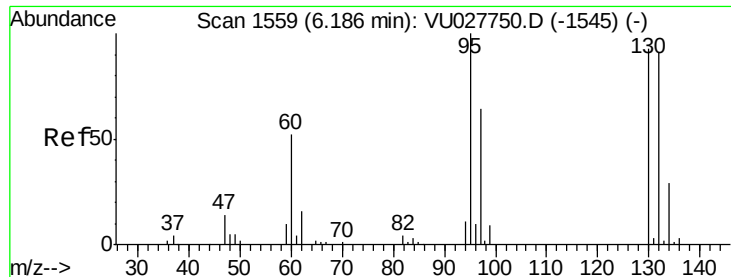
98 7.1 5.8 8.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37
 Trichloroethene
 Concen: 4.869 ug/l
 RT: 6.19 min Scan# 1559
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

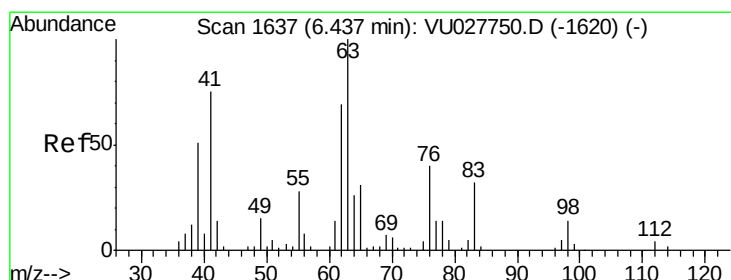
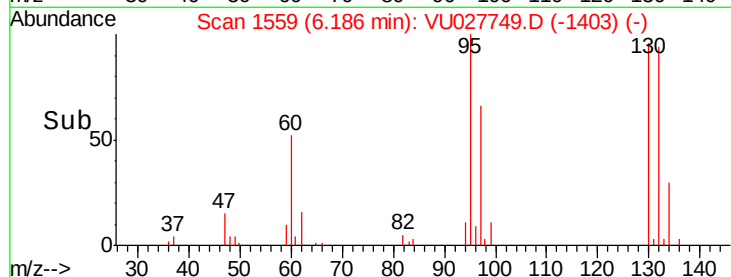
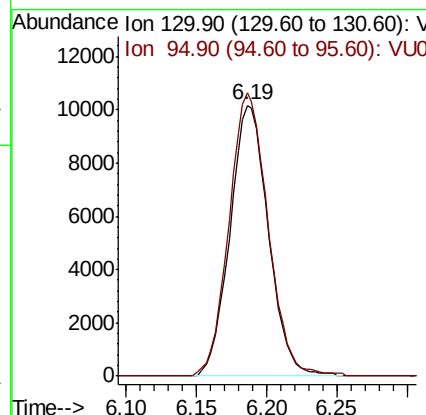
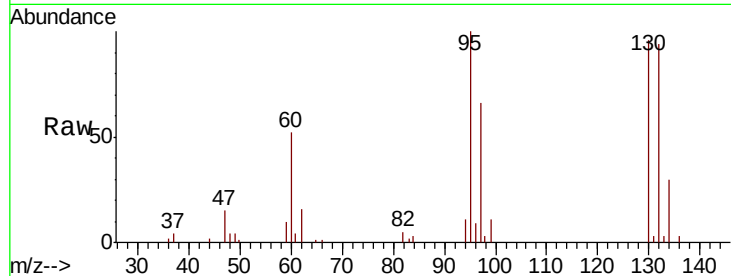
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:130 Resp: 19410
 Ion Ratio Lower Upper
 130 100
 95 104.5 86.4 129.6

Manual Integrations
 APPROVED

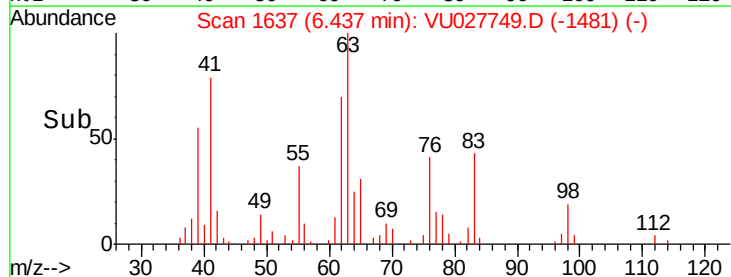
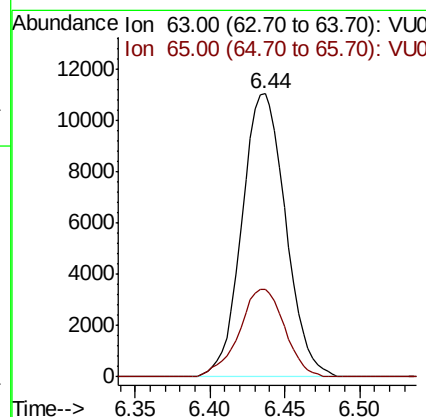
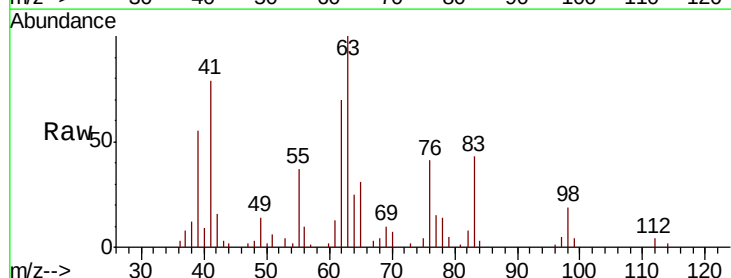
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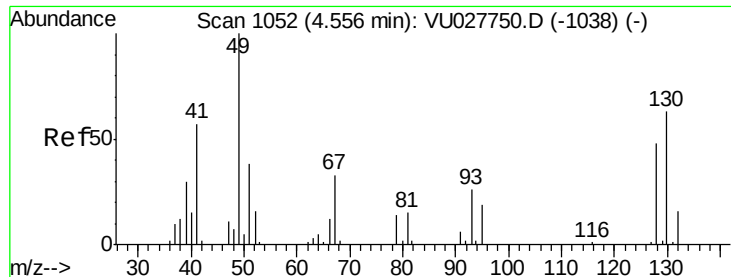
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#38
 1,2-Dichloropropane
 Concen: 4.918 ug/l
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion: 63 Resp: 22449
 Ion Ratio Lower Upper
 63 100
 65 30.9 24.9 37.3





#39
Methacrylonitrile
Concen: 4.863 ug/l
RT: 4.56 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

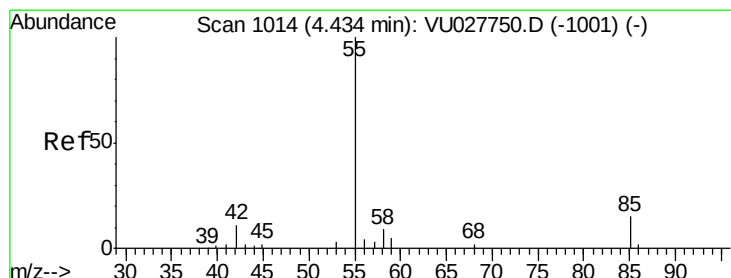
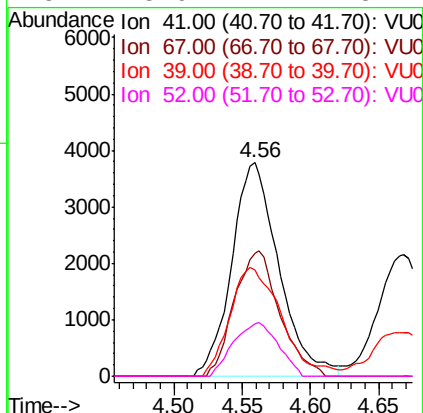
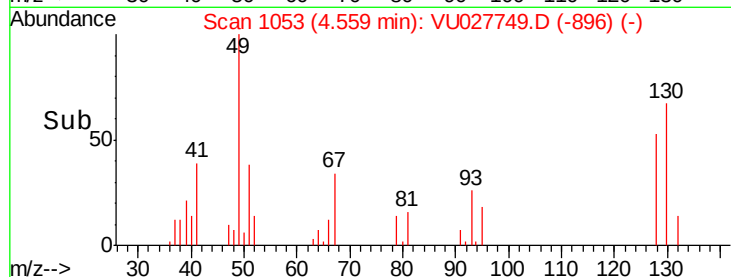
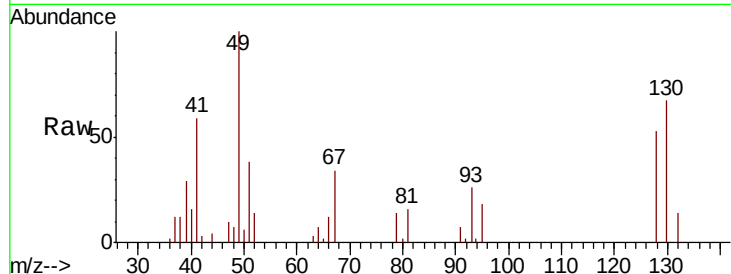
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
67	56.3	46.1	69.1
39	55.9	43.6	65.4
52	23.9	21.4	32.2

Manual Integrations
APPROVED

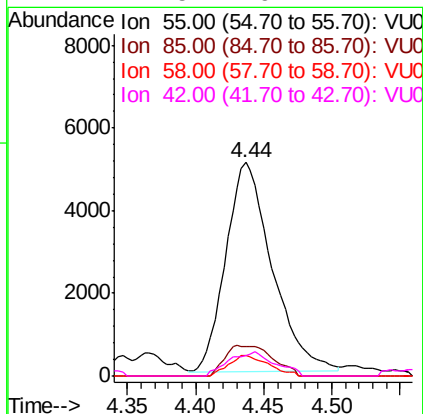
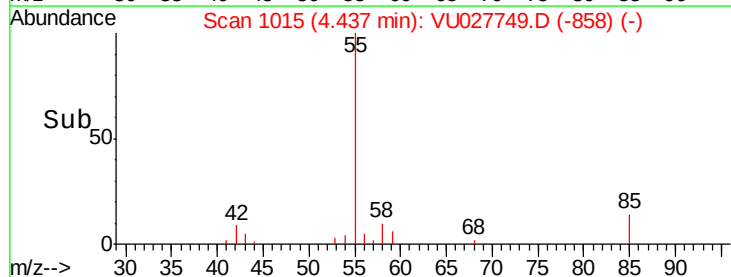
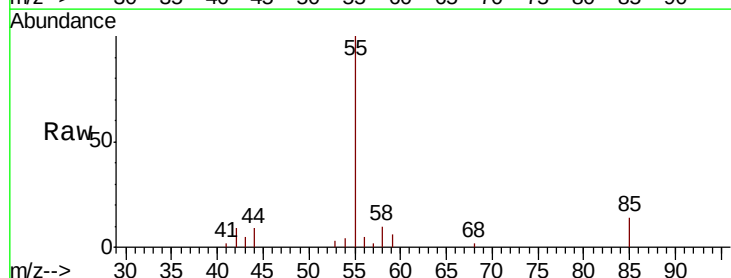
sam

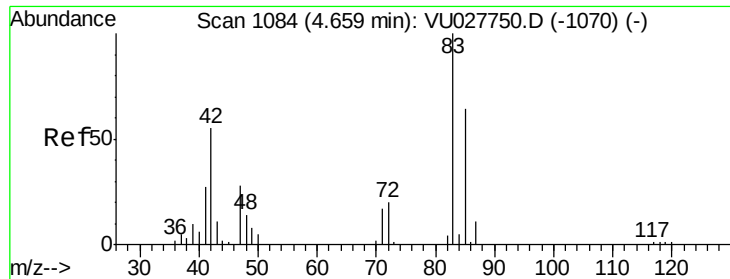
10/24/2018 2:20:16 PM



#40
Methyl acrylate
Concen: 4.700 ug/l
RT: 4.44 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion	Ratio	Lower	Upper
55	100		
85	14.8	11.8	17.6
58	8.5	7.0	10.4
42	11.5	9.4	14.2





#41
Tetrahydrofuran
Concen: 9.274 ug/l
RT: 4.67 min Scan# 1087
Delta R.T. 0.01 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

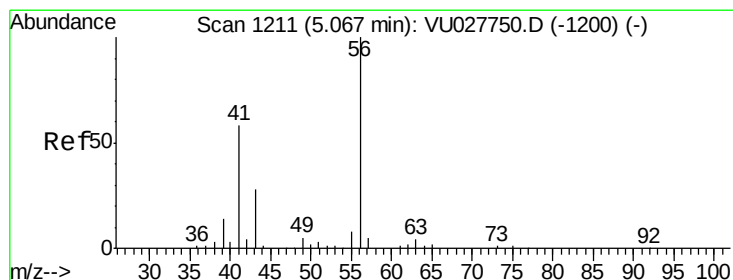
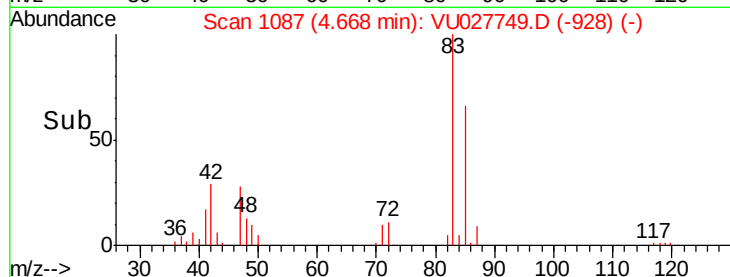
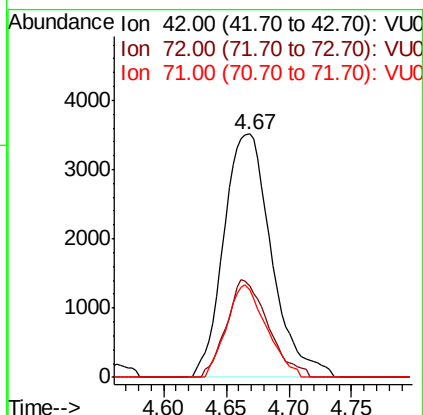
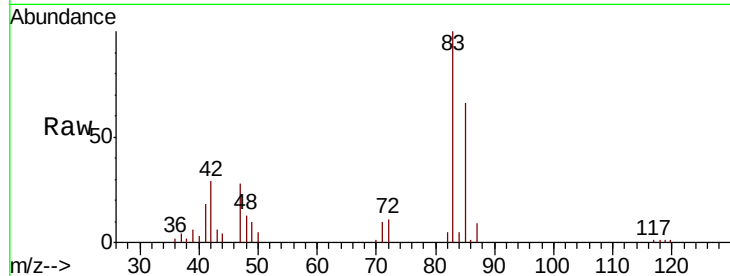
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.0	30.6	45.8
71	31.6	25.2	37.8

Manual Integrations
APPROVED

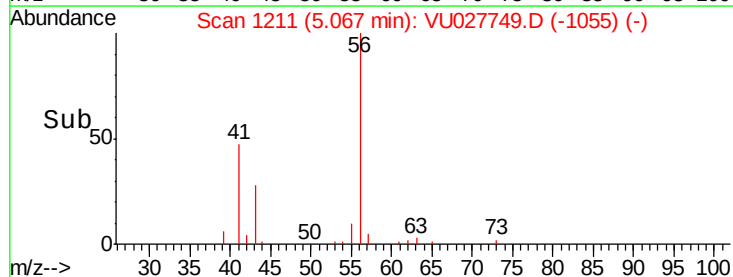
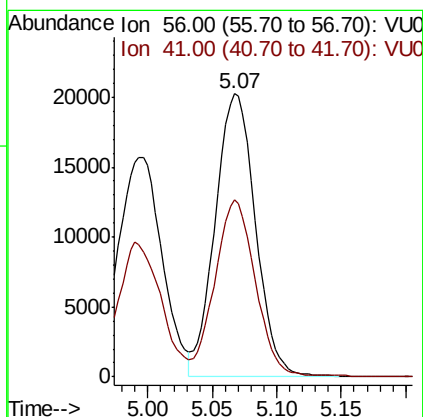
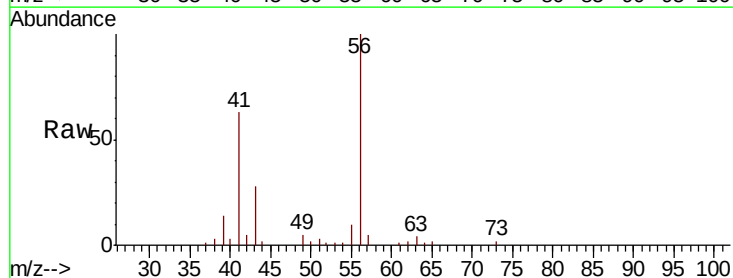
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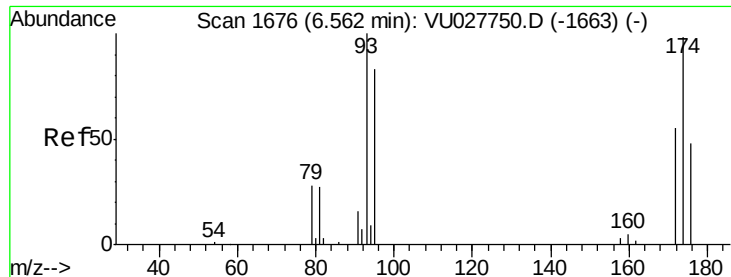
10/24/2018 2:20:16 PM



#42
1-Chlorobutane
Concen: 4.888 ug/l
RT: 5.07 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion	Ratio	Lower	Upper
56	100		
41	61.4	29.4	88.2





#43
 Dibromomethane
 Concen: 5.047 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

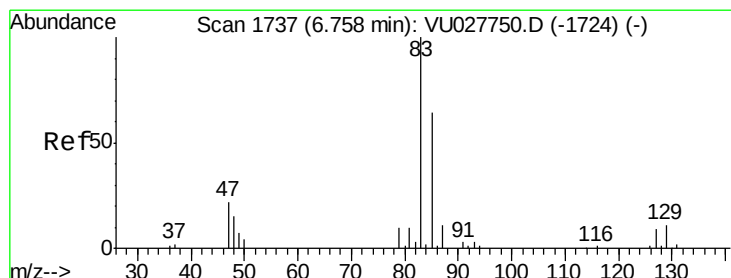
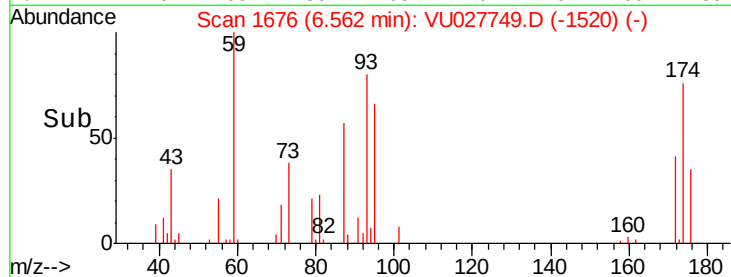
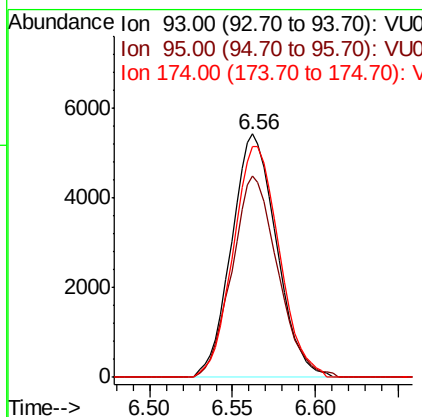
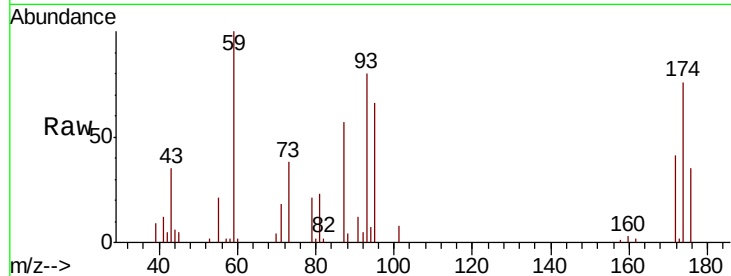
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	93	Resp:	10264
Ion	Ratio	Lower	Upper
93	100		
95	84.0	64.2	96.2
174	96.9	76.7	115.1

Manual Integrations
 APPROVED

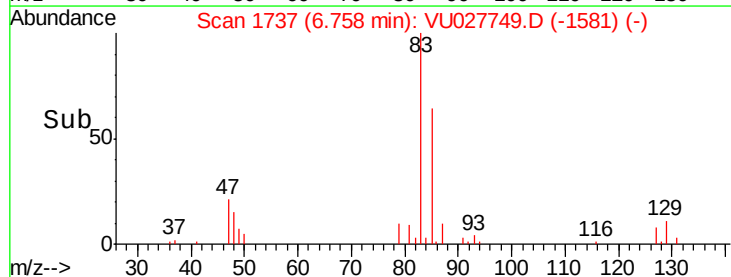
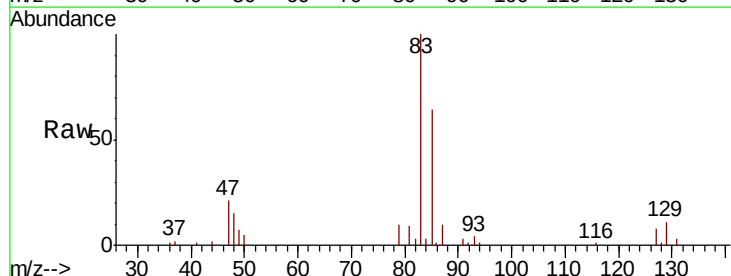
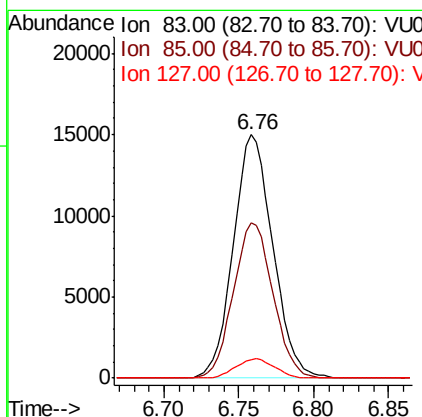
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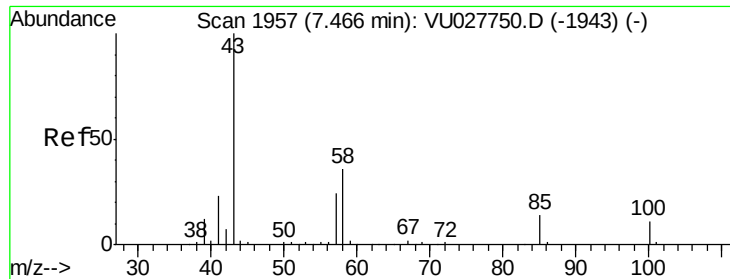
10/24/2018 2:20:16 PM



#44
 Bromodichloromethane
 Concen: 5.044 ug/l
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion:	83	Resp:	27550
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.5	77.3
127	7.7	7.0	10.4





#45

4-Methyl-2-Pentanone

Concen: 23.663 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 81428

Ion Ratio Lower Upper

43 100

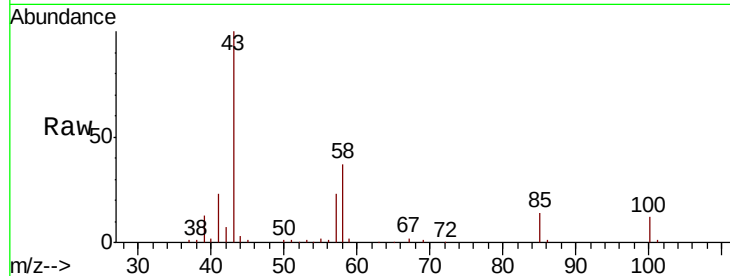
58 36.1 17.9 53.8

85 14.0 11.4 17.0

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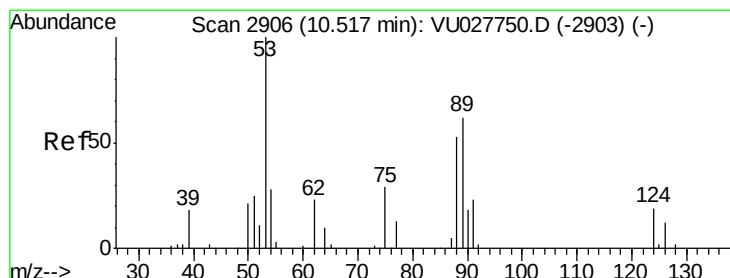
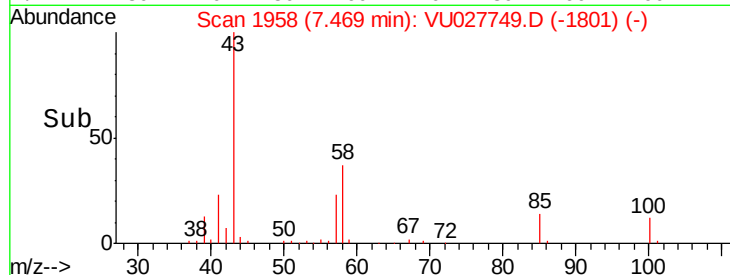
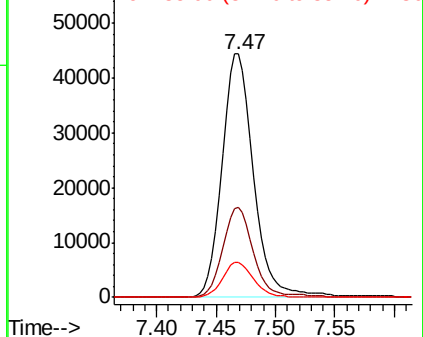


Abundance

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

t-1,4-Dichloro-2-butene

Concen: 9.727 ug/l m

RT: 10.52 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Tgt Ion: 75 Resp: 12376

Ion Ratio Lower Upper

75 100

53 84.5 68.2 102.4

89 50.7 41.8 62.6

88 38.3 33.8 50.8

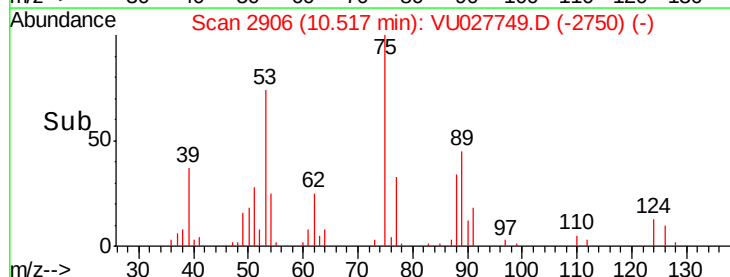
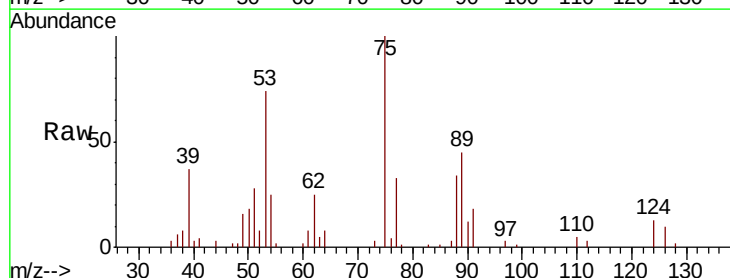
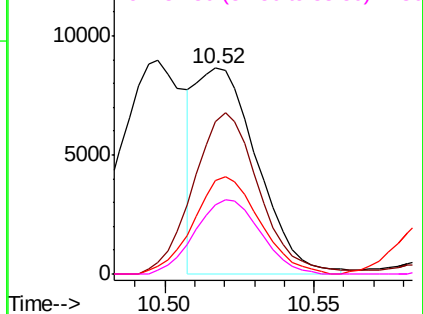
Abundance

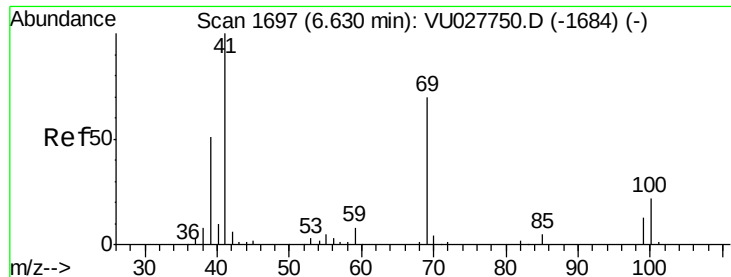
Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.80 (88.50 to 89.50): VU0

Ion 87.80 (87.50 to 88.50): VU0





#47

Methyl methacrylate

Concen: 9.800 ug/l

RT: 6.63 min Scan# 1697

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 69 Resp: 22038

Ion Ratio Lower Upper

69 100

41 143.4 0.0 281.2

39 77.6 58.6 88.0

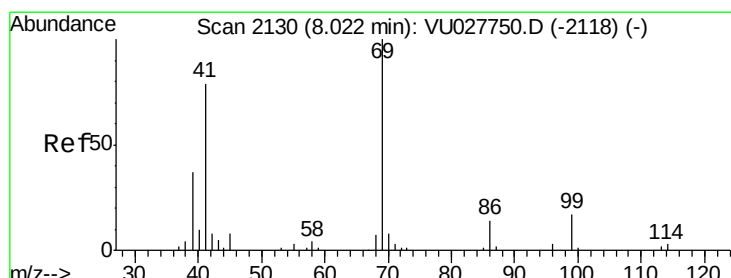
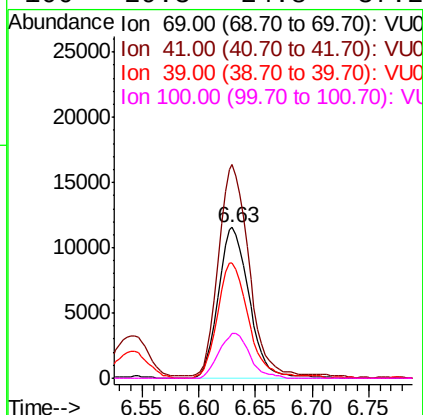
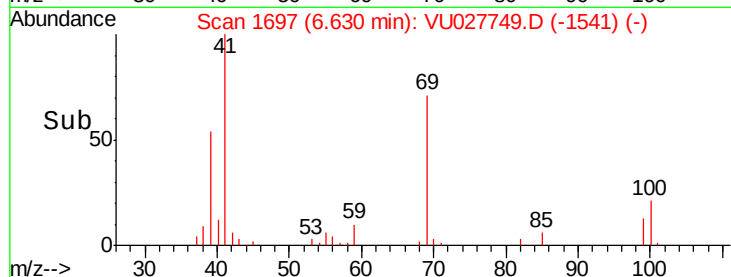
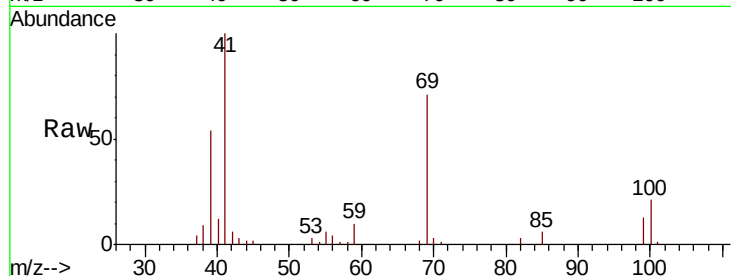
100 29.3 24.8 37.2

Manual Integrations

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#48

Ethyl methacrylate

Concen: 4.717 ug/l

RT: 8.02 min Scan# 2130

Delta R.T. 0.00 min

Lab File: VU027749.D

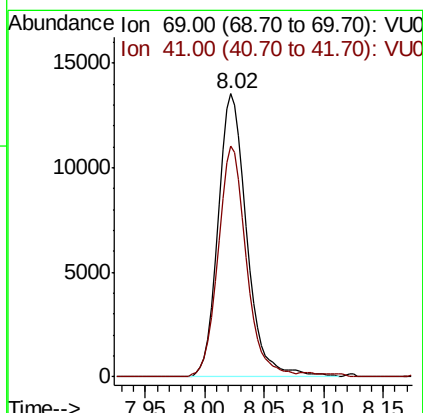
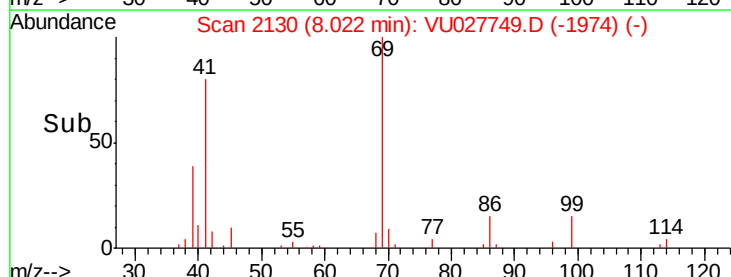
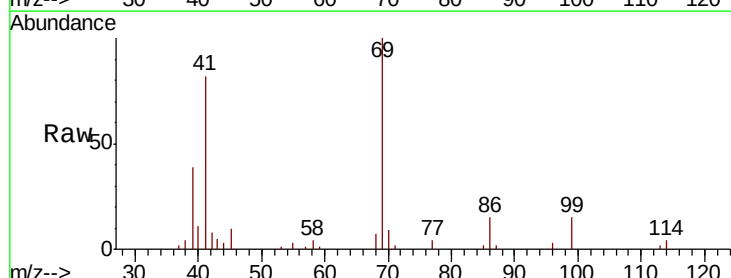
Acq: 22 Oct 2018 19:09

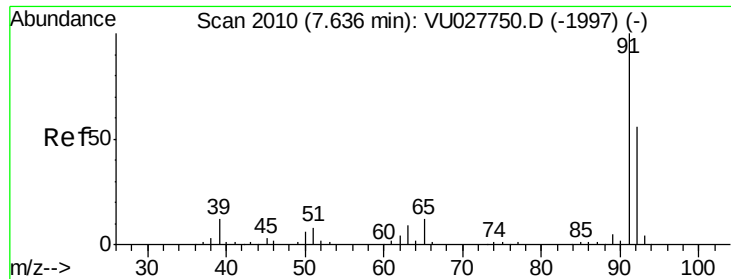
Tgt Ion: 69 Resp: 22707

Ion Ratio Lower Upper

69 100

41 80.0 39.1 117.2





#49

Toluene

Concen: 4.837 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 92 Resp: 47364

Ion Ratio Lower Upper

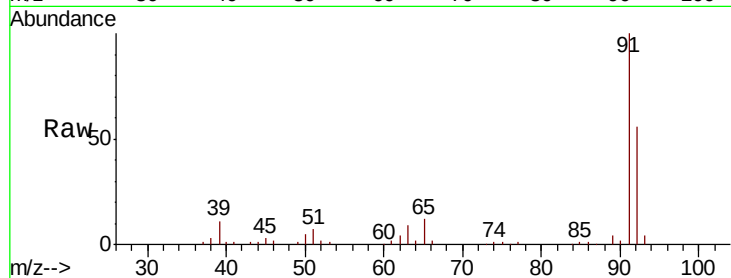
92 100

91 176.8 141.8 212.8

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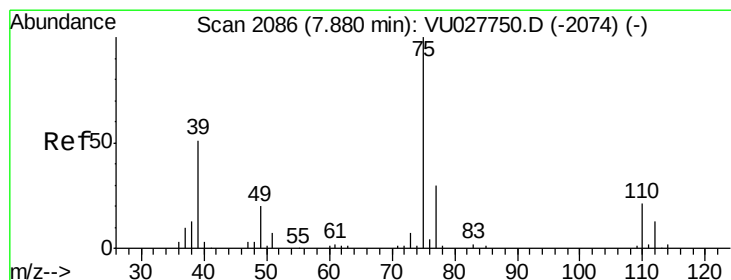
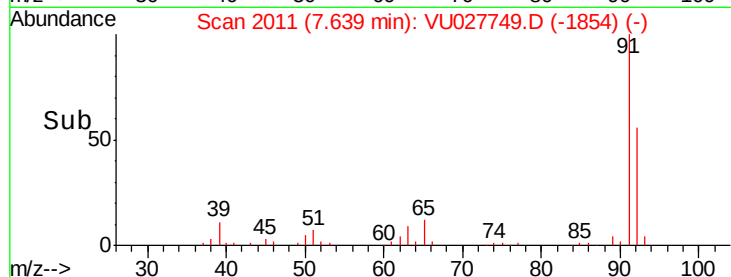
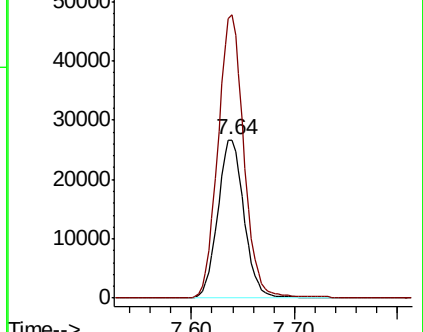
sam

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Abundance Ion 92.00 (91.70 to 92.70): VU027750.D (-1997) (-)

Ion 91.00 (90.70 to 91.70): VU027750.D (-1997) (-)



#50

t-1,3-Dichloropropene

Concen: 4.939 ug/l

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU027749.D

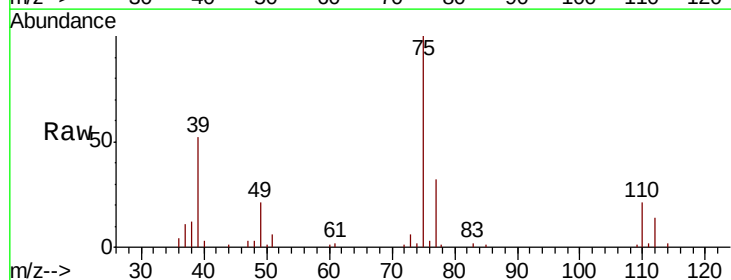
Acq: 22 Oct 2018 19:09

Tgt Ion: 75 Resp: 27409

Ion Ratio Lower Upper

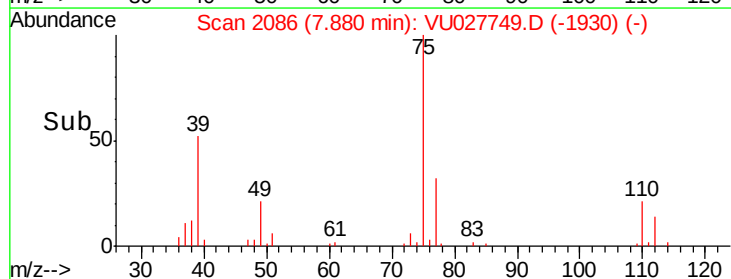
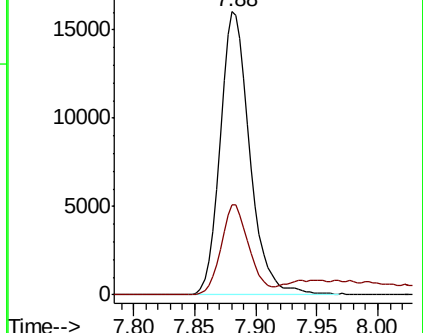
75 100

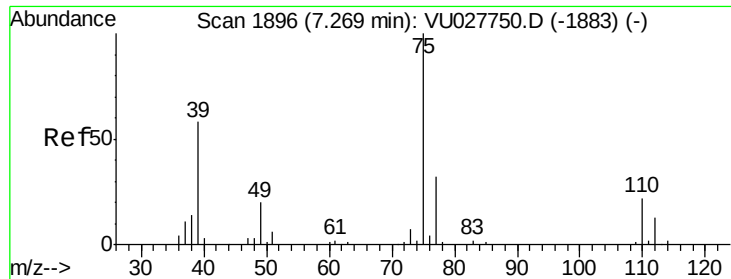
77 31.9 24.1 36.1



Abundance Ion 75.00 (74.70 to 75.70): VU027750.D (-2074) (-)

Ion 77.00 (76.70 to 77.70): VU027750.D (-2074) (-)





#51

cis-1,3-Dichloropropene

Concen: 4.912 ug/l

RT: 7.27 min Scan# 1897

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

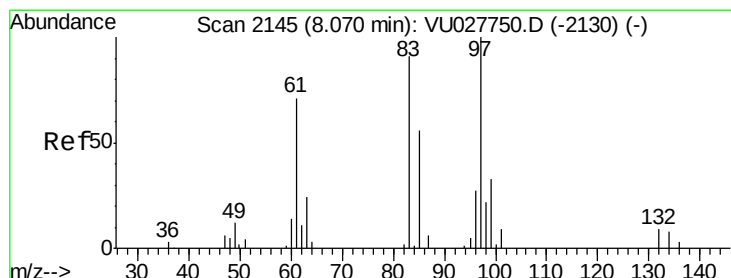
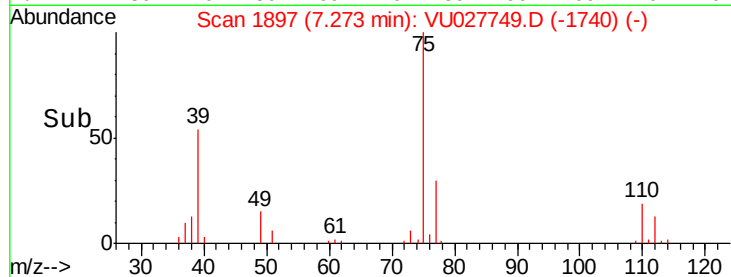
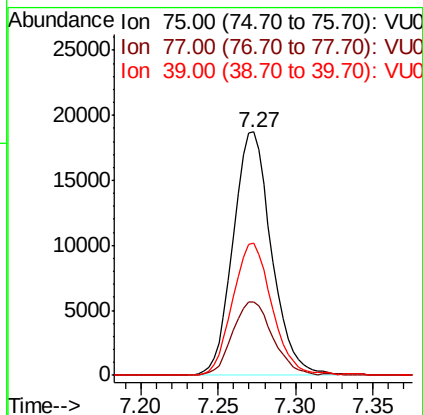
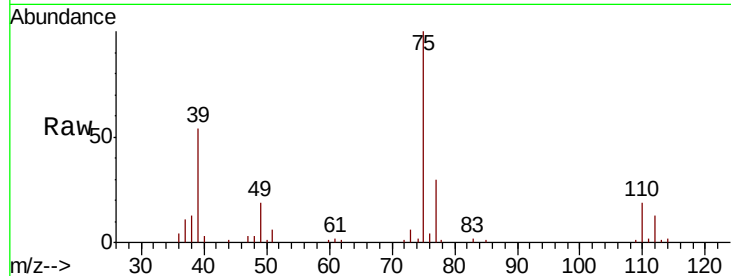
VSTDIC005

Tot Ion:	75	Resp:	32334
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.3	37.9
39	54.2	46.4	69.6

Manual Integrations
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#52

1,1,2-Trichloroethane

Concen: 4.939 ug/l

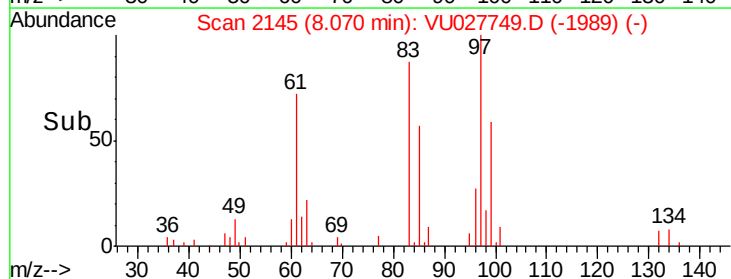
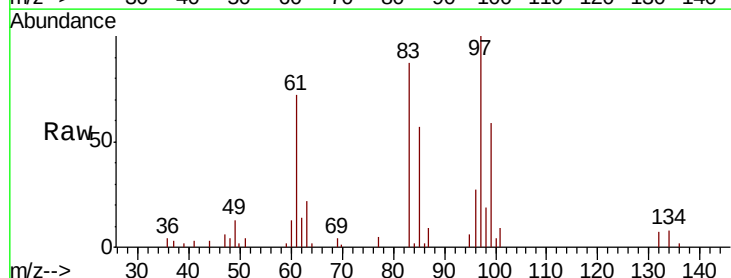
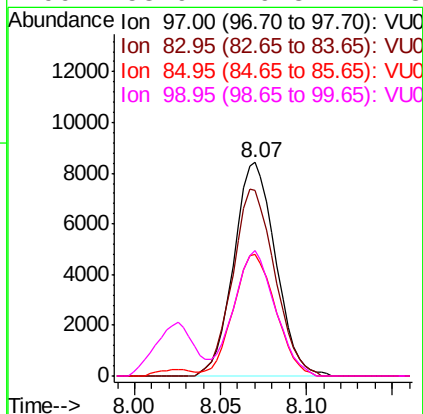
RT: 8.07 min Scan# 2145

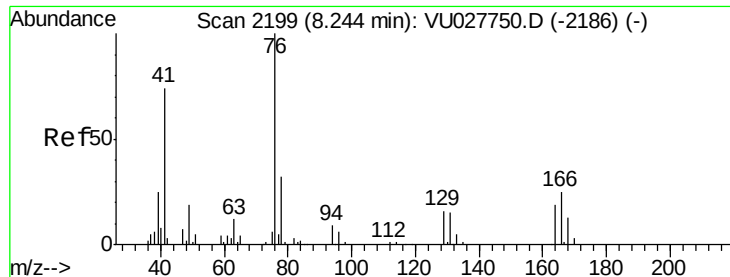
Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Tgt Ion:	97	Resp:	14198
Ion	Ratio	Lower	Upper
97	100		
83	86.7	73.0	109.6
85	57.1	46.5	69.7
99	58.9	49.8	74.8





#53
 1,3-Dichloropropane
 Concen: 4.901 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

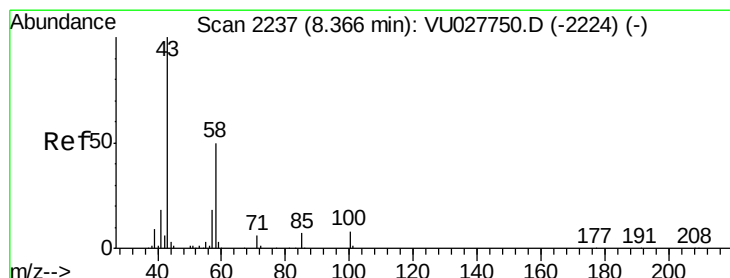
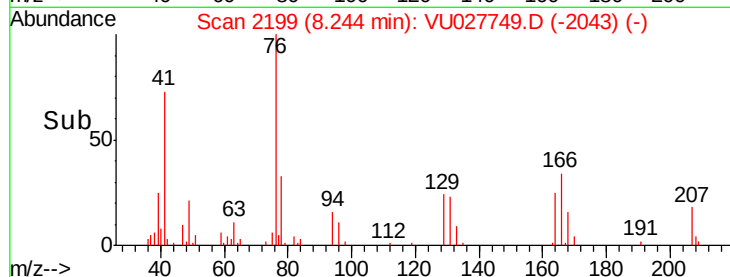
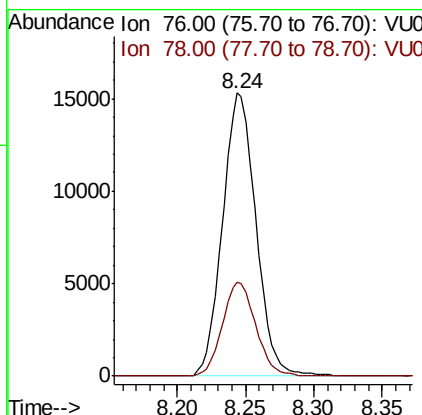
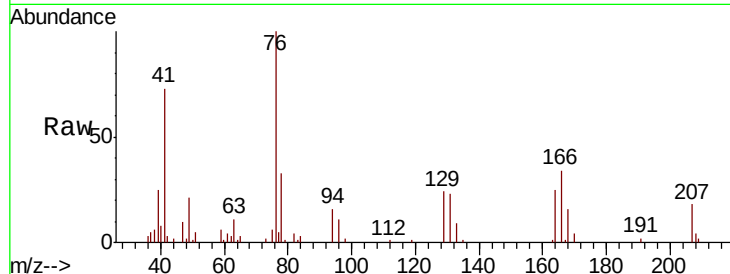
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.4	38.0

Manual Integrations
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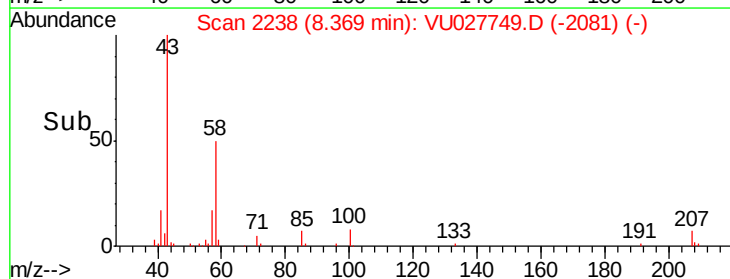
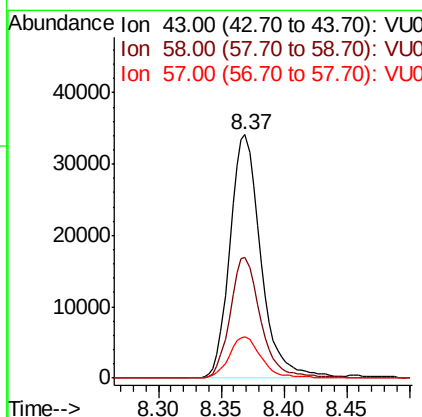
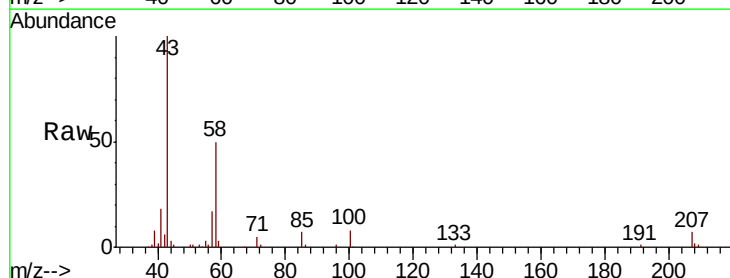
sam

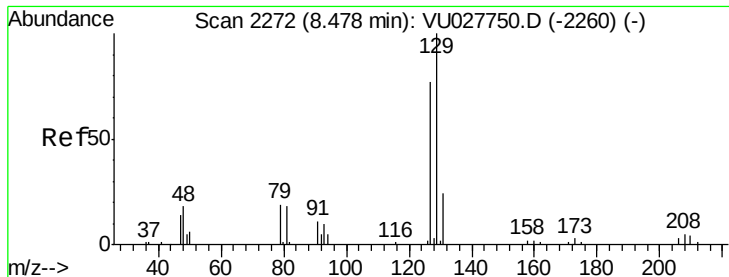
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#54
 2-Hexanone
 Concen: 23.119 ug/l
 RT: 8.37 min Scan# 2238
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	48.9	30.0	70.0
57	17.5	0.0	37.7





#55

Dibromochloromethane

Concen: 5.040 ug/l

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:129 Resp: 17640

Ion Ratio Lower Upper

129 100

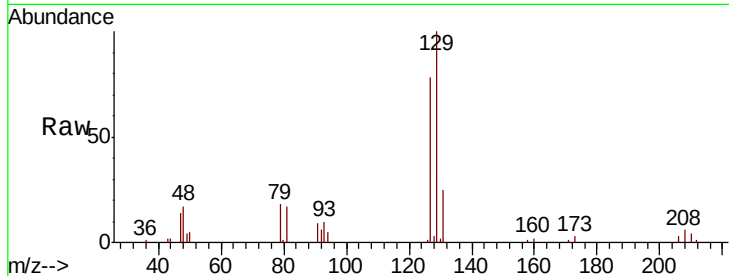
127 77.5 61.9 92.9

Manual Integrations

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.48

10000

8000

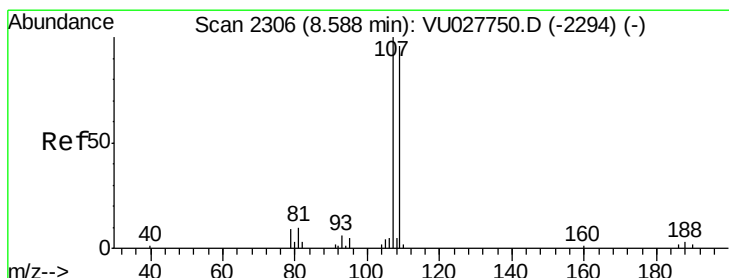
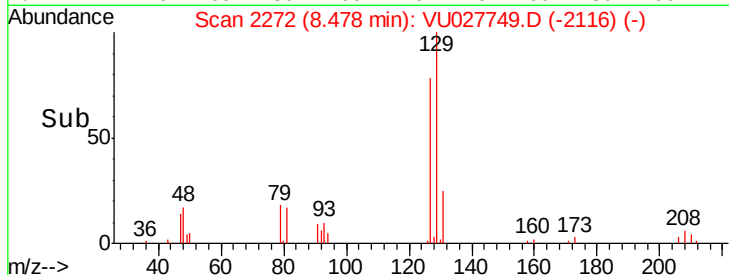
6000

4000

2000

0

Time--> 8.40 8.45 8.50 8.55



#56

1,2-Dibromoethane

Concen: 5.013 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU027749.D

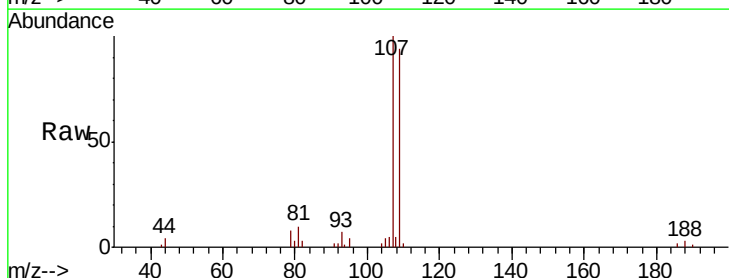
Acq: 22 Oct 2018 19:09

Tgt Ion:107 Resp: 13606

Ion Ratio Lower Upper

107 100

109 94.5 0.0 188.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.59

8000

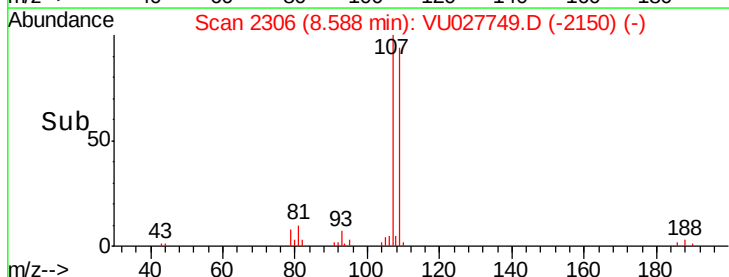
6000

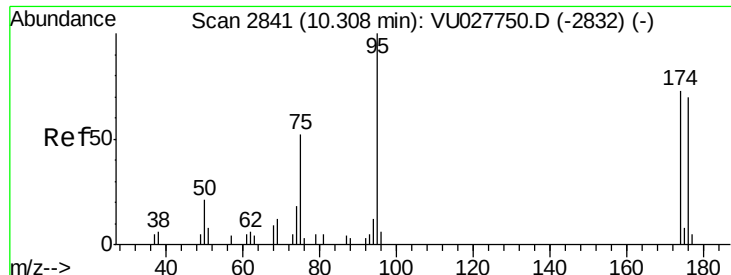
4000

2000

0

Time--> 8.55 8.60 8.65





#57
4-Bromofluorobenzene
Concen: 5.013 ug/l
RT: 10.31 min Scan# 2842
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

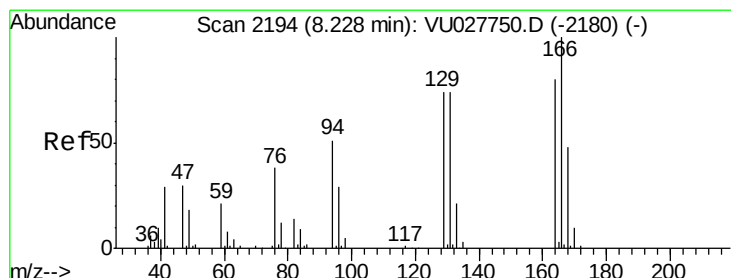
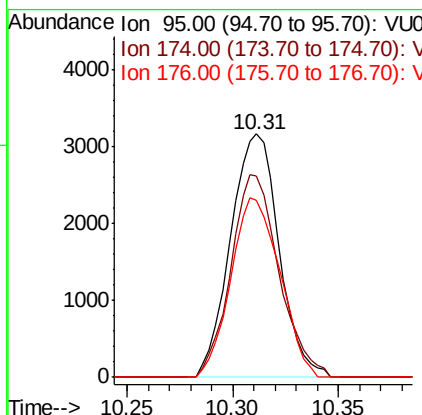
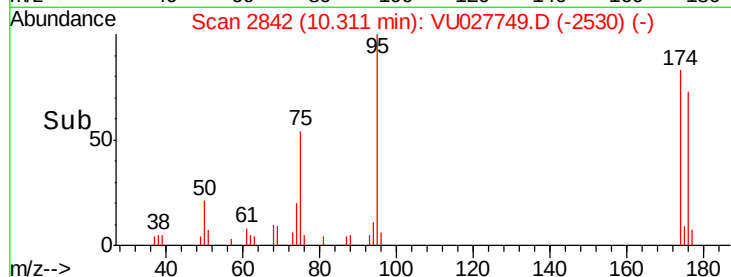
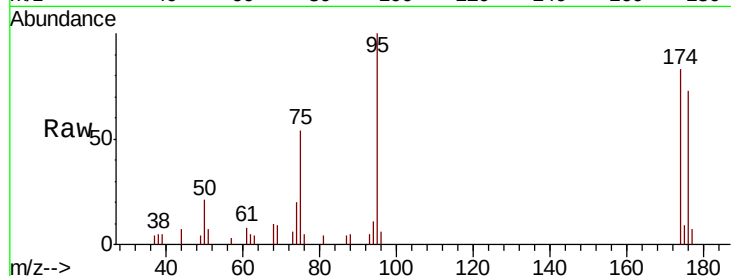
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:	95	Resp:	5058
Ion	Ratio	Lower	Upper
95	100		
174	82.5	64.5	96.7
176	74.5	58.3	87.5

Manual Integrations
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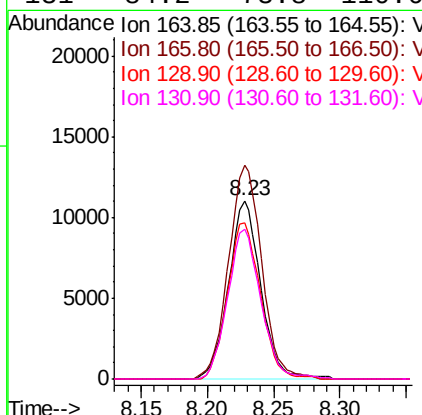
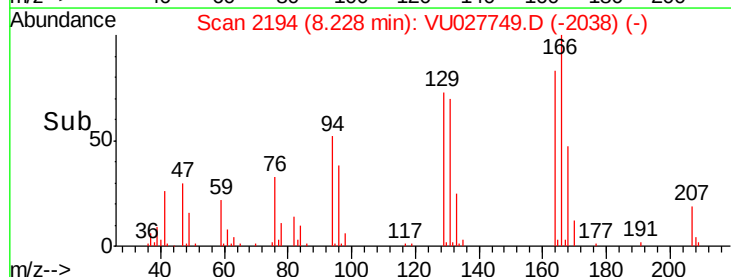
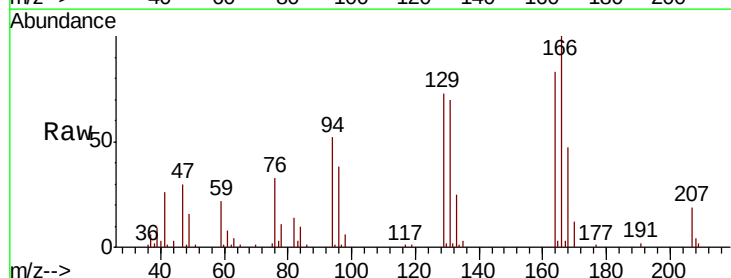
sam

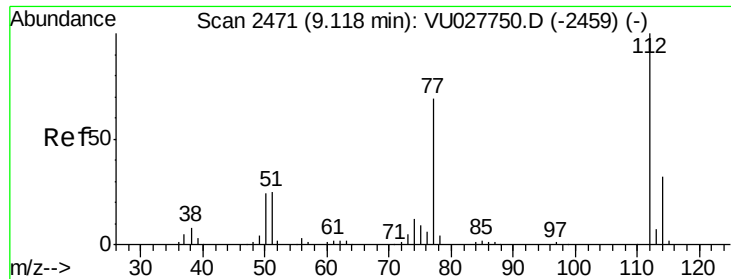
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#58
Tetrachloroethene
Concen: 5.165 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion:	164	Resp:	18629
Ion	Ratio	Lower	Upper
164	100		
166	119.8	100.2	150.4
129	87.9	73.7	110.5
131	84.2	73.8	110.6





#59
Chlorobenzene
Concen: 4.803 ug/l
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

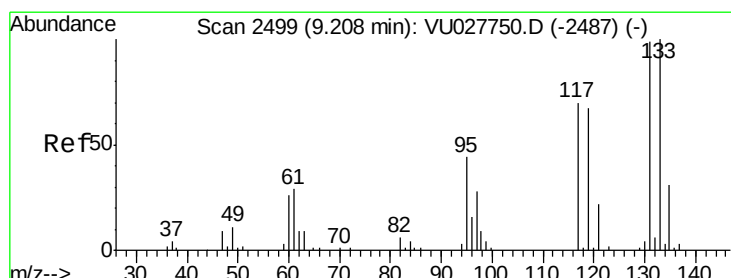
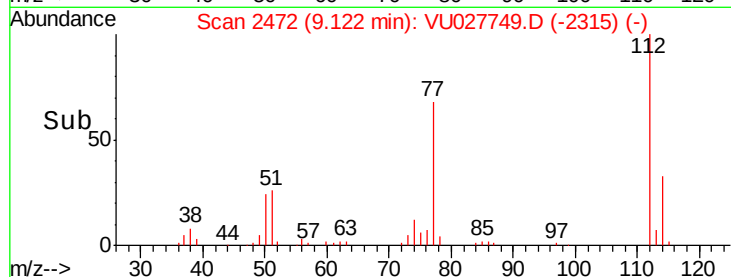
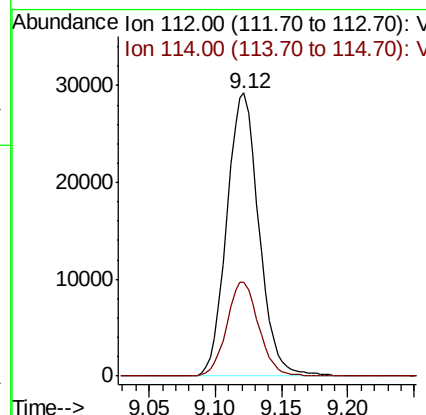
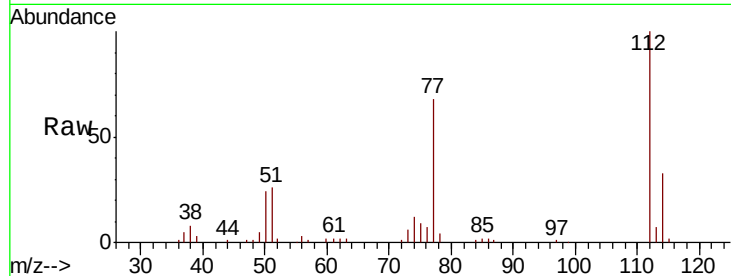
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 49289
Ion Ratio Lower Upper
112 100
114 33.0 25.4 38.0

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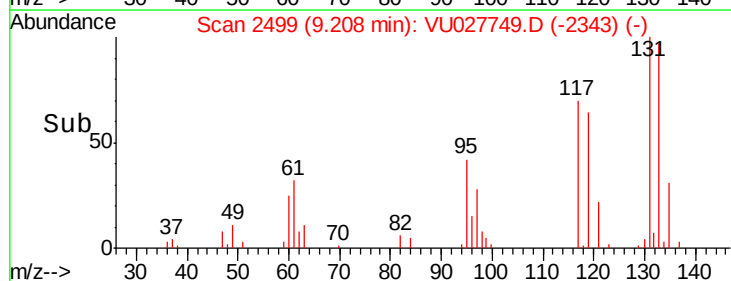
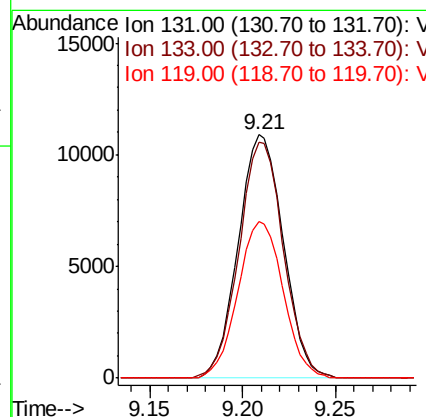
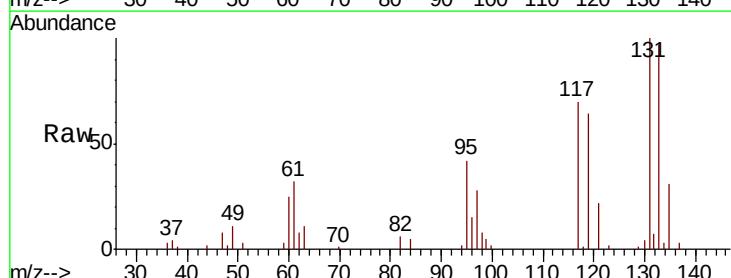
sam

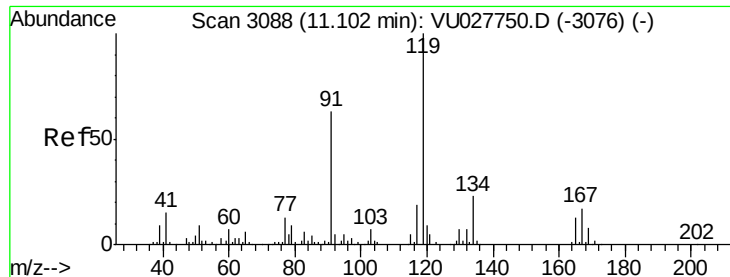
10/24/2018 2:20:16 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 4.941 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion:131 Resp: 18387
Ion Ratio Lower Upper
131 100
133 95.8 77.5 116.3
119 64.3 52.0 78.0





#61
 Pentachloroethane
 Concen: 4.934 ug/l
 RT: 11.10 min Scan# 3088
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

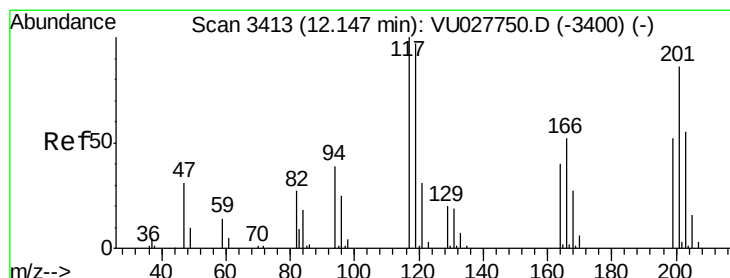
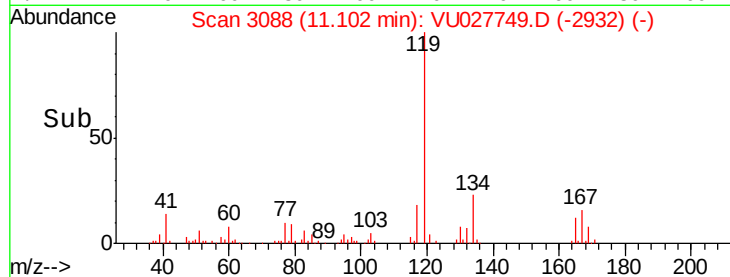
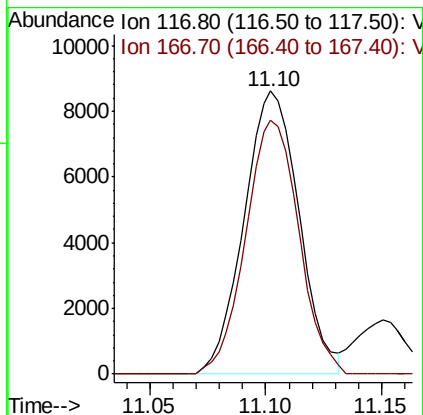
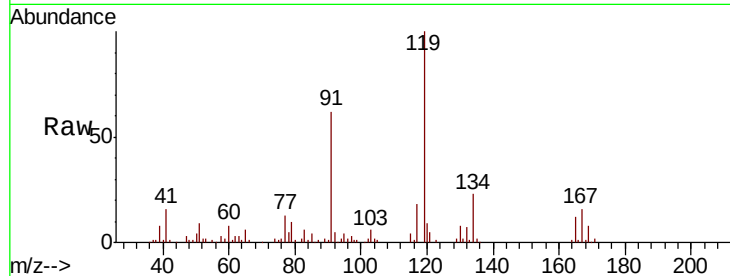
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:117 Resp: 14210
 Ion Ratio Lower Upper
 117 100
 167 86.5 70.1 105.1

Manual Integrations
 APPROVED

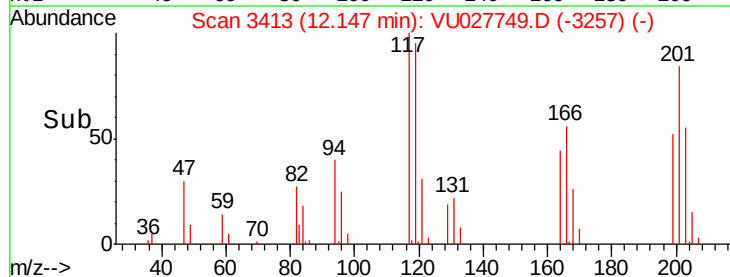
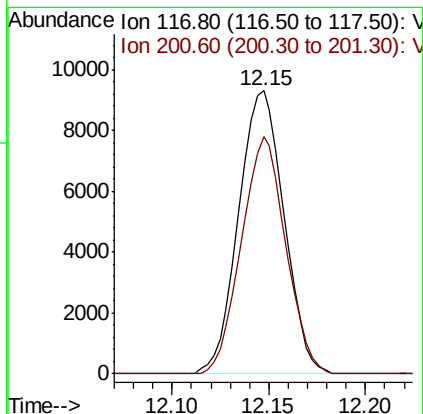
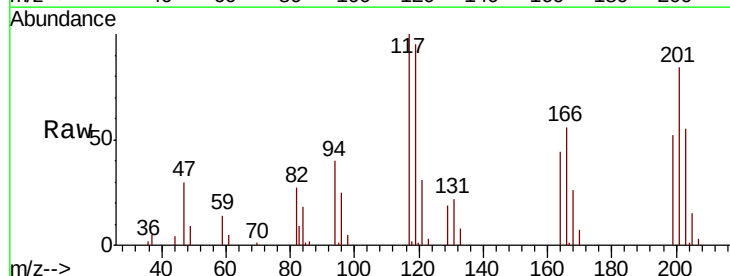
sam

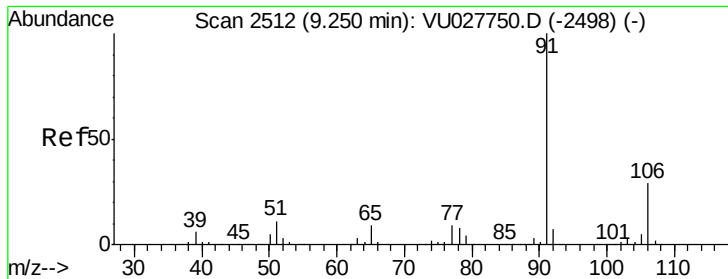
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#62
 Hexachloroethane
 Concen: 4.917 ug/l
 RT: 12.15 min Scan# 3413
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion:117 Resp: 15257
 Ion Ratio Lower Upper
 117 100
 201 81.7 66.0 99.0





#63

Ethyl Benzene

Concen: 5.074 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 96268

Ion Ratio Lower Upper

91 100

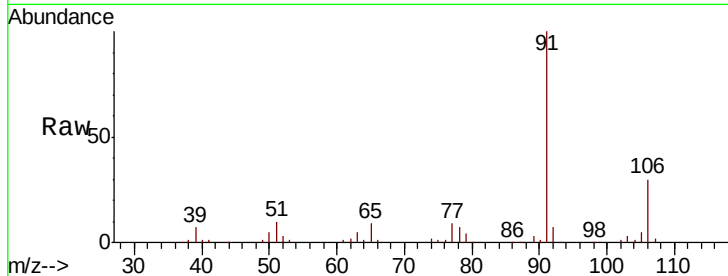
106 30.1 23.5 35.3

Manual Integrations

APPROVED

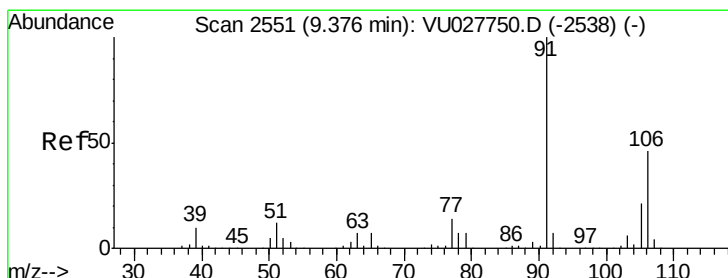
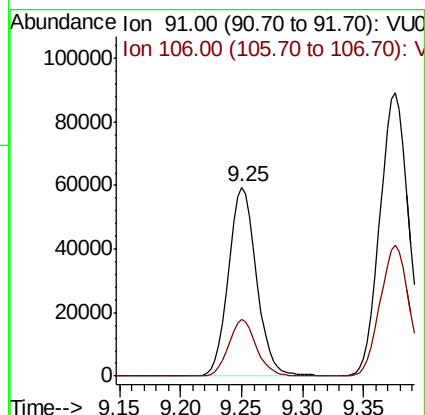
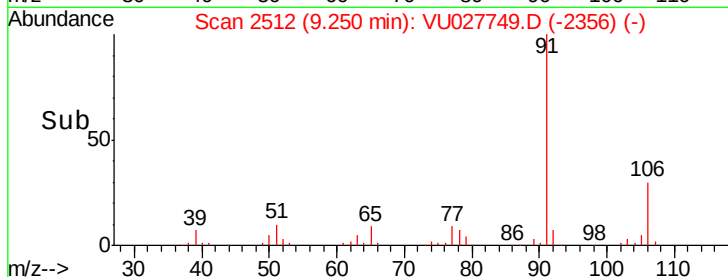
sam

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Abundance Ion 91.00 (90.70 to 91.70): VU027750.D (-2498) (-)

Ion 106.00 (105.70 to 106.70): VU027750.D (-2498) (-)



#64

m/p-Xylenes

Concen: 9.928 ug/l

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU027749.D

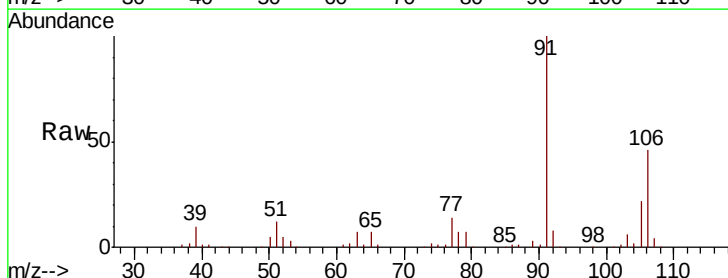
Acq: 22 Oct 2018 19:09

Tgt Ion: 106 Resp: 68870

Ion Ratio Lower Upper

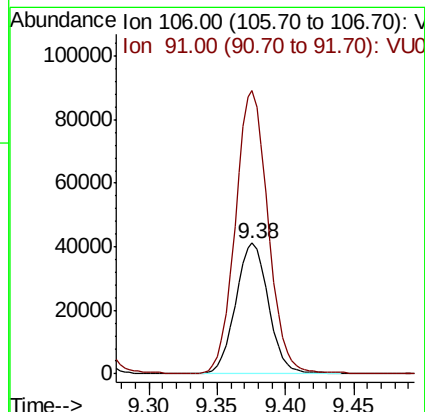
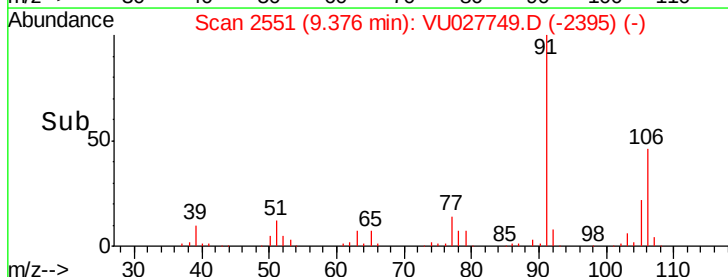
106 100

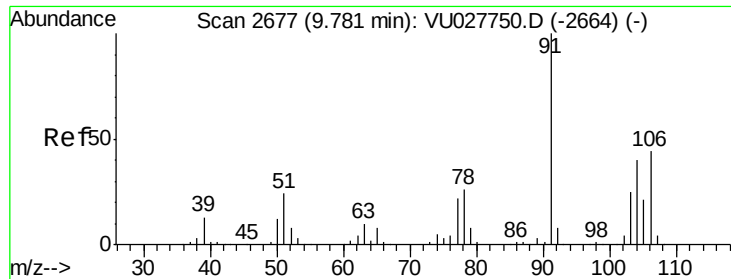
91 215.1 173.3 259.9



Abundance Ion 106.00 (105.70 to 106.70): VU027750.D (-2538) (-)

Ion 91.00 (90.70 to 91.70): VU027750.D (-2538) (-)





#65

o-Xylene

Concen: 4.795 ug/l

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:106 Resp: 33202

Ion Ratio Lower Upper

106 100

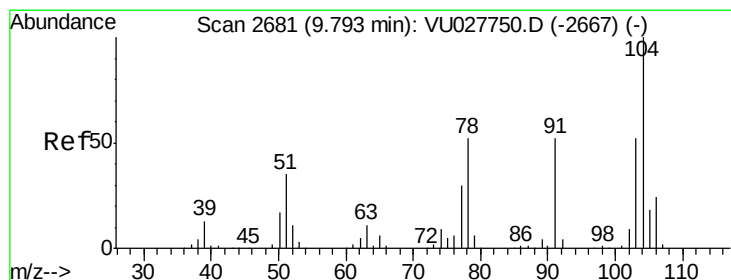
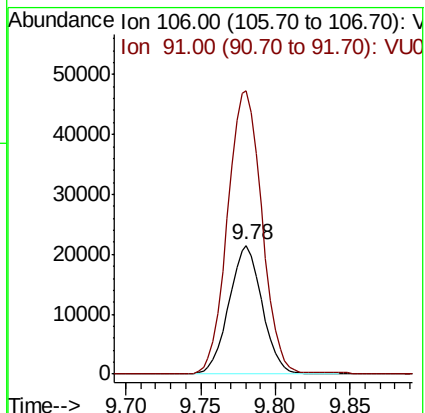
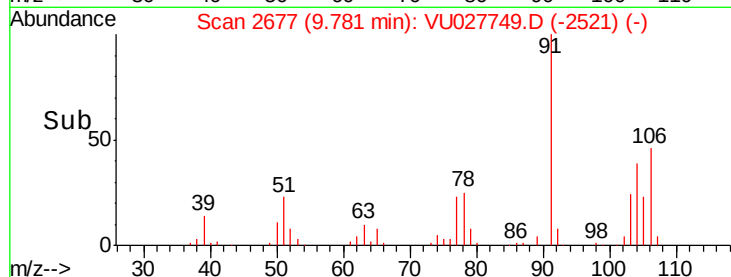
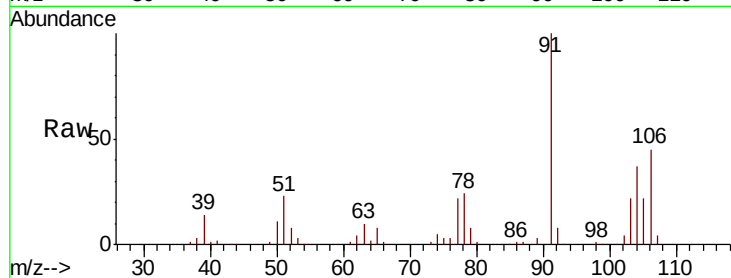
91 229.0 113.4 340.2

Manual Integrations

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sam

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#66

Styrene

Concen: 4.920 ug/l

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

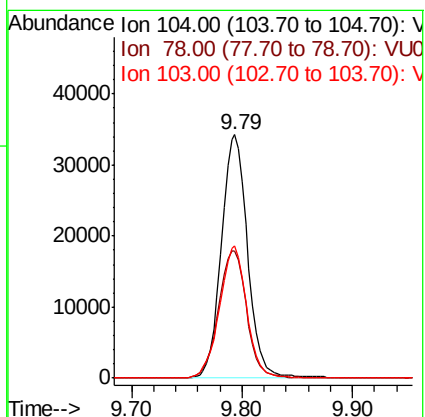
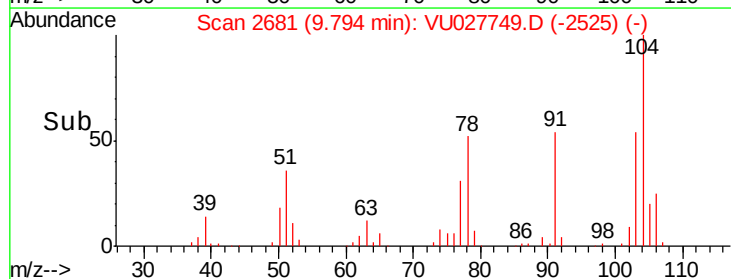
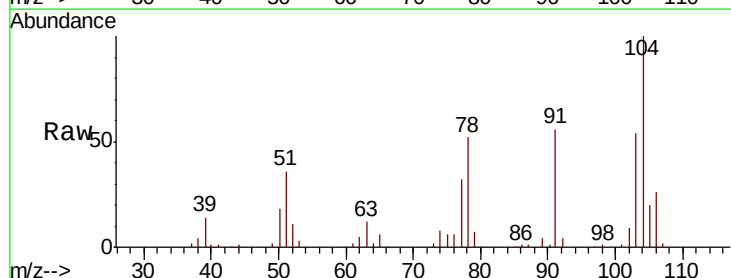
Tgt Ion:104 Resp: 56380

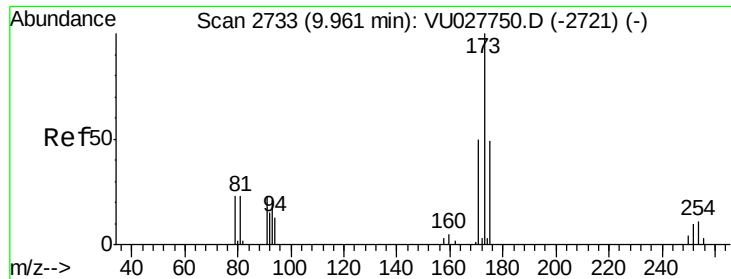
Ion Ratio Lower Upper

104 100

78 55.8 45.2 67.8

103 56.0 44.8 67.2





#67

Bromoform

Concen: 4.892 ug/l

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

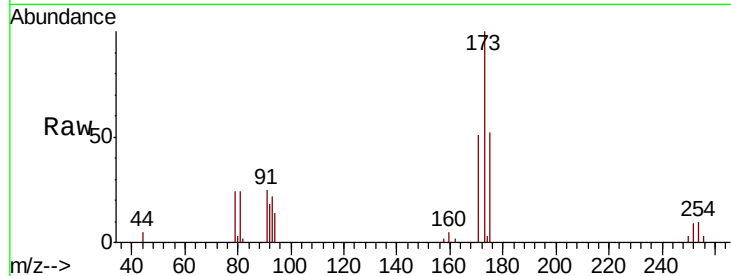
VSTDIC005

Tot Ion:	173	Resp:	9931
Ion Ratio	Lower	Upper	
173	100		
175	50.1	39.6	59.4
254	9.0	7.8	11.6

Manual Integrations
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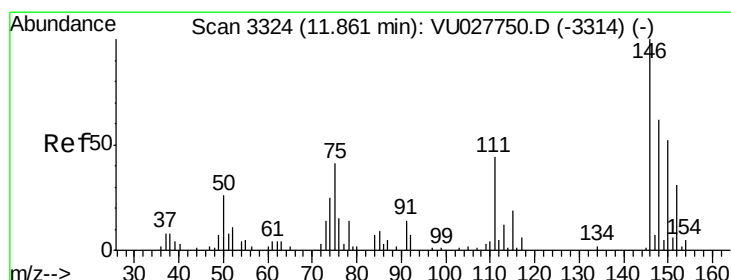
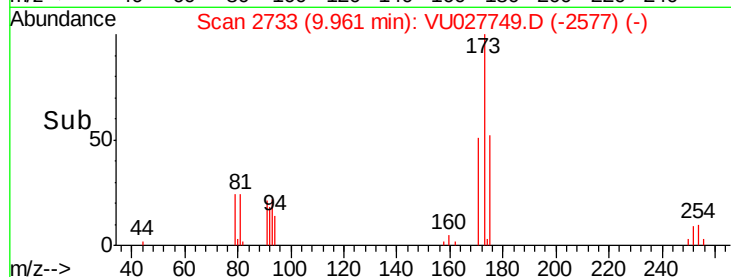
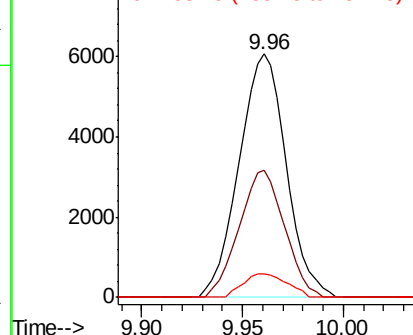


Abundance

Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 4.892 ug/l

RT: 11.86 min Scan# 3324

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

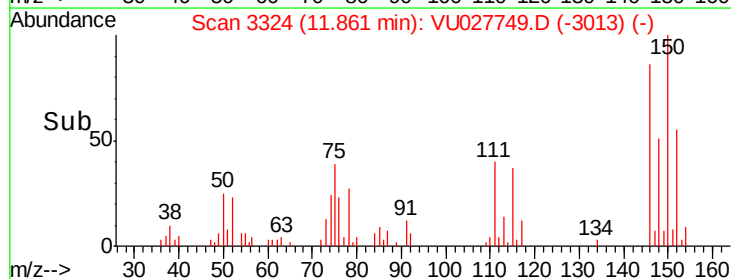
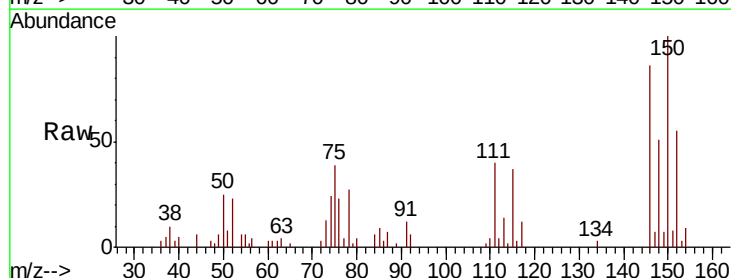
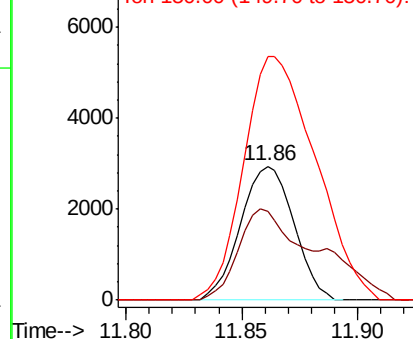
Tgt Ion:	152	Resp:	4681
Ion Ratio	Lower	Upper	
152	100		
115	100.4	0.0	130.2
150	246.6	0.0	650.6

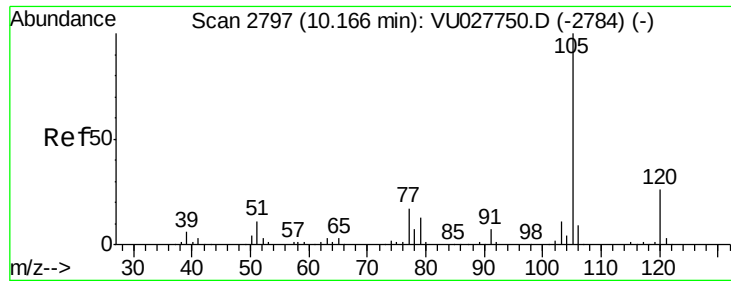
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 4.931 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Tot Ion: 105 Resp: 91404

Ion Ratio Lower Upper

105 100

120 25.6 12.8 38.3

Instrument :

MSVOA_U

ClientSampleId :

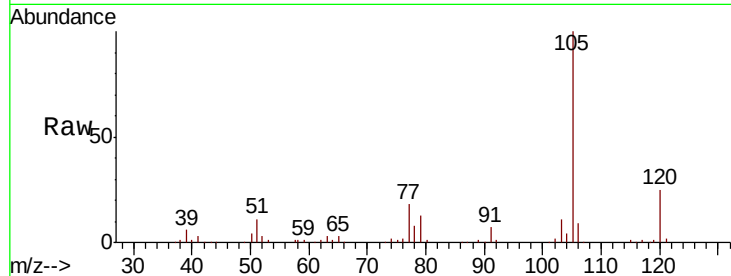
VSTDIC005

Manual Integrations

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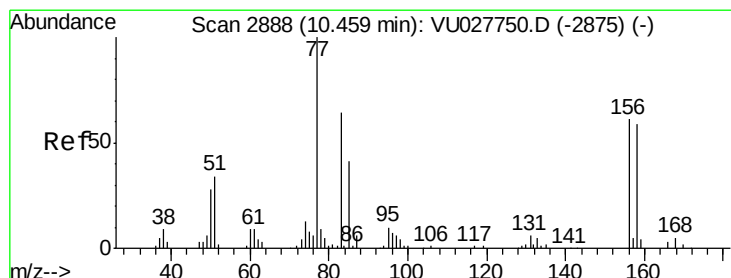
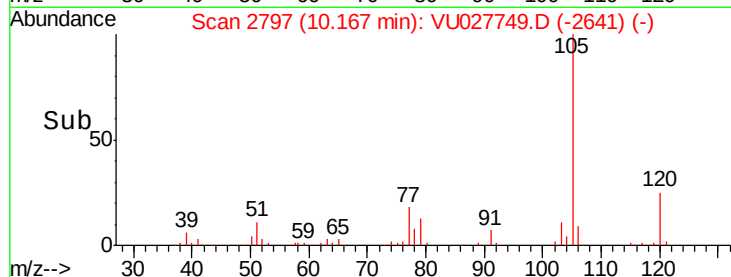
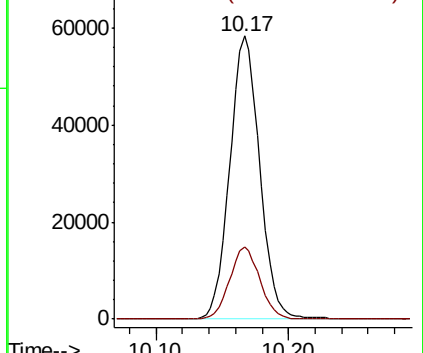
sam

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#70

1,1,2,2-Tetrachloroethane

Concen: 4.797 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

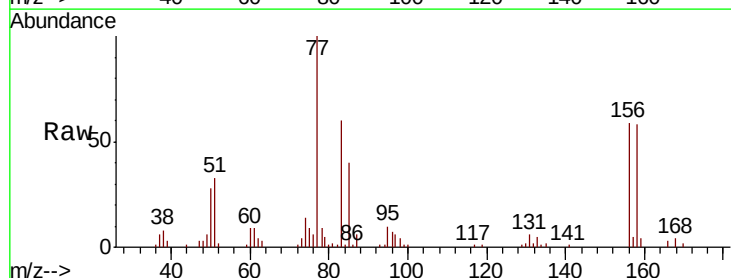
Tgt Ion: 83 Resp: 17900

Ion Ratio Lower Upper

83 100

131 9.9 7.7 11.5

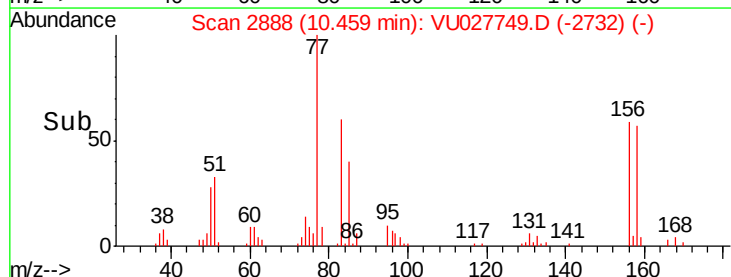
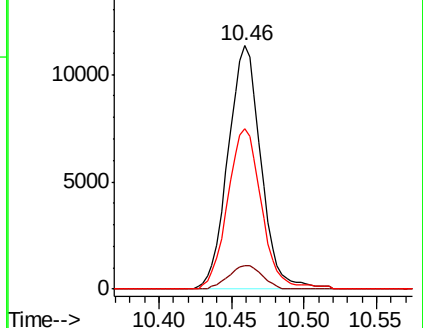
85 67.9 51.2 76.8

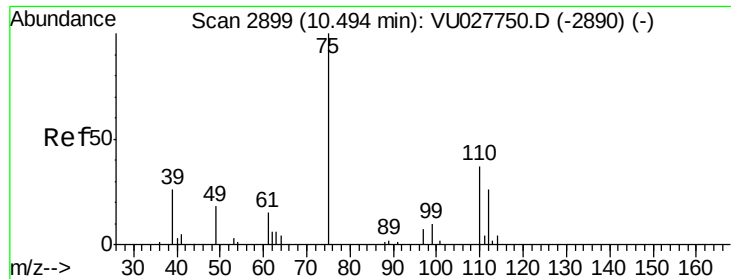


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0





#71
 1,2,3-Trichloropropane
 Concen: 4.772 ug/l m
 RT: 10.50 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

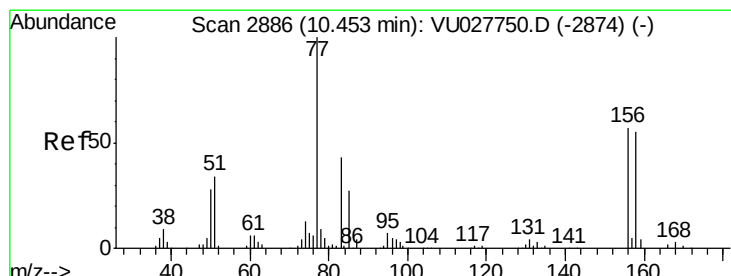
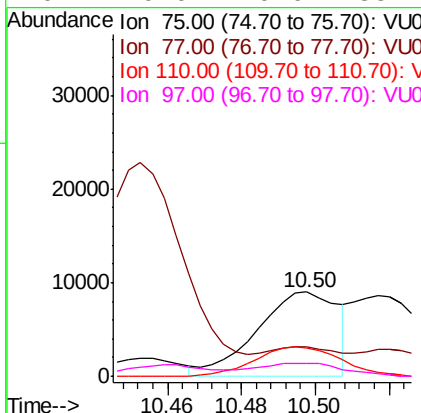
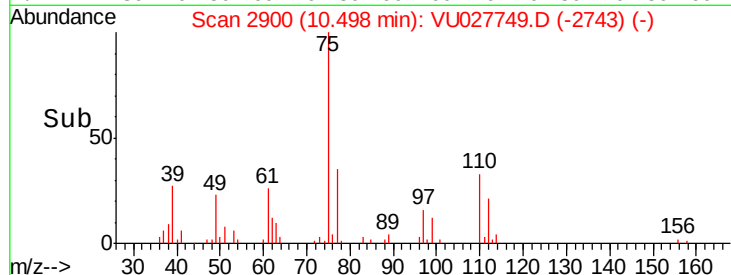
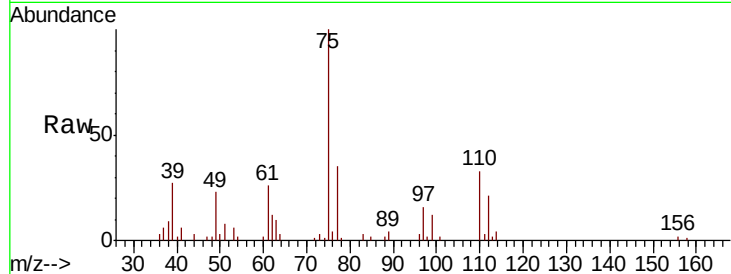
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	75	Resp:	13832
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0
110	36.7	0.0	68.2
97	16.0	0.0	35.2

Manual Integrations
 APPROVED

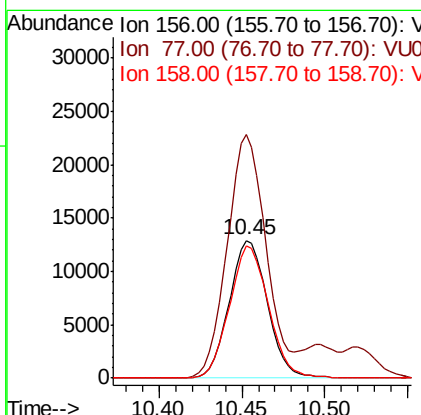
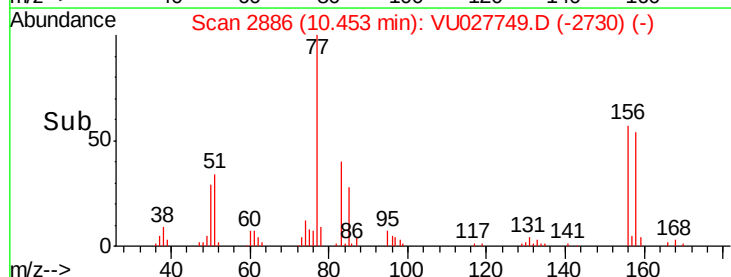
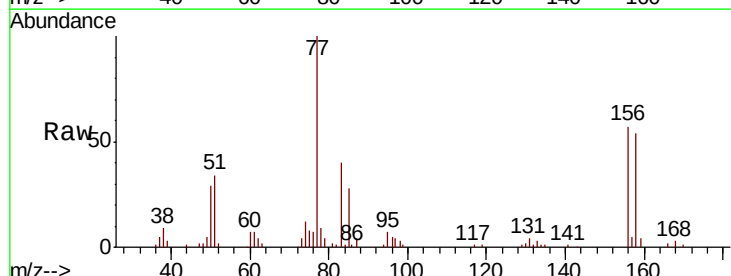
sam

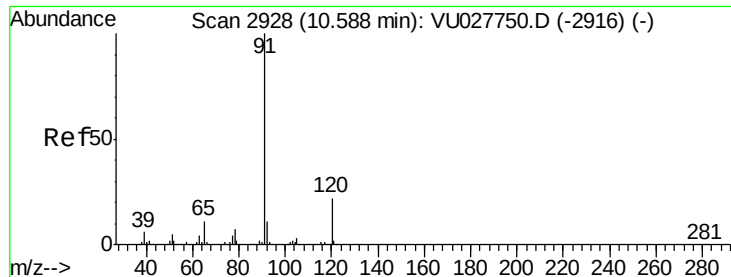
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#72
 Bromobenzene
 Concen: 4.996 ug/l
 RT: 10.45 min Scan# 2886
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion:	156	Resp:	20699
Ion Ratio	Lower	Upper	
156	100		
77	180.0	0.0	349.4
158	97.9	0.0	191.4





#73

n-propylbenzene

Concen: 5.092 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:120 Resp: 24193

Ion Ratio Lower Upper

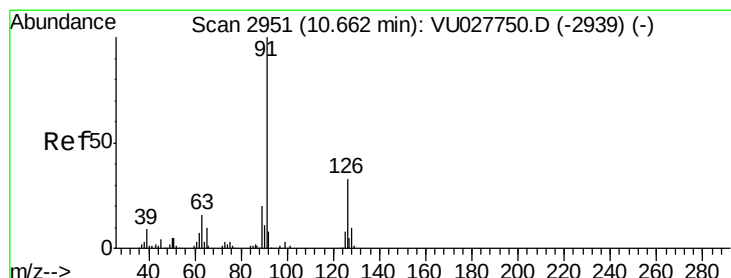
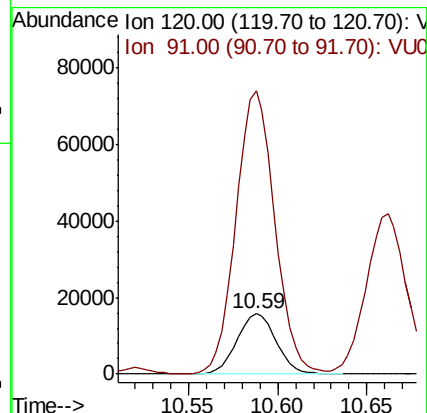
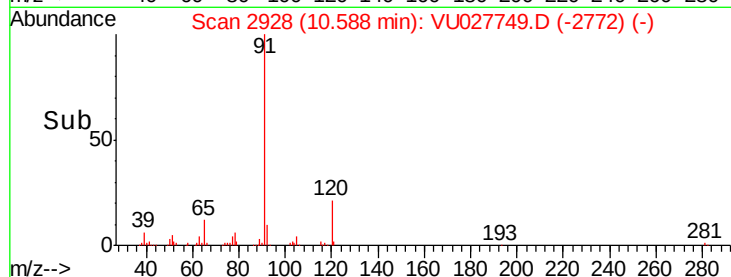
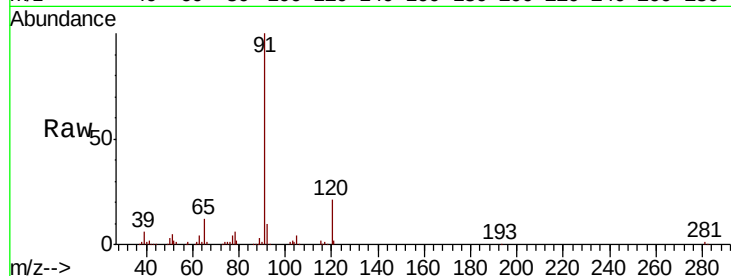
120 100

91 464.9 369.0 553.6

Manual Integrations
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sam

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#74

2-Chlorotoluene

Concen: 4.866 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU027749.D

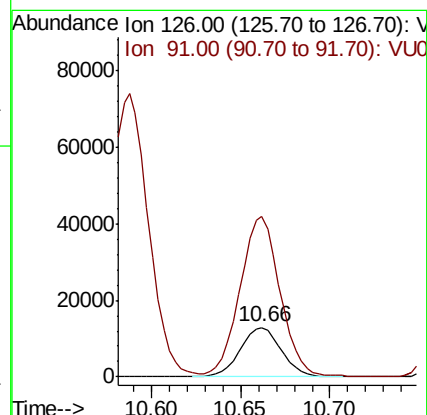
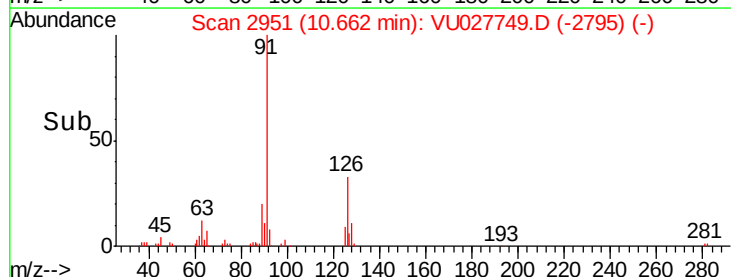
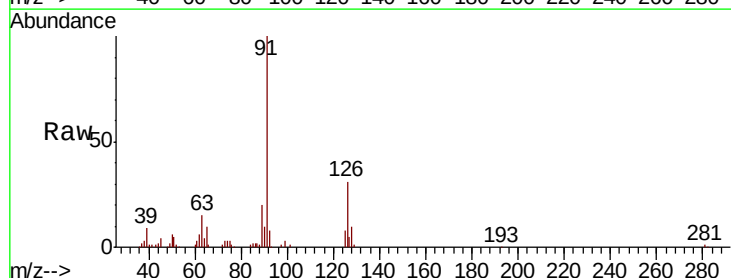
Acq: 22 Oct 2018 19:09

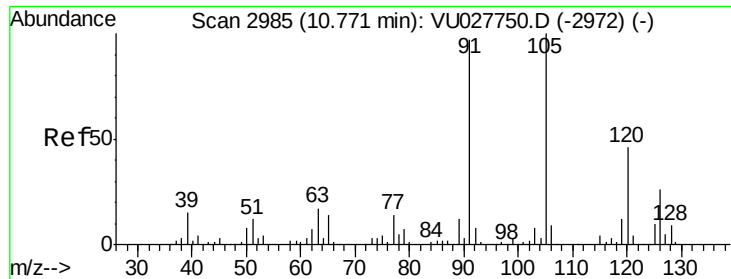
Tgt Ion:126 Resp: 20637

Ion Ratio Lower Upper

126 100

91 323.2 0.0 628.8





#75

1,3,5-Trimethylbenzene

Concen: 5.057 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 78212

Ion Ratio Lower Upper

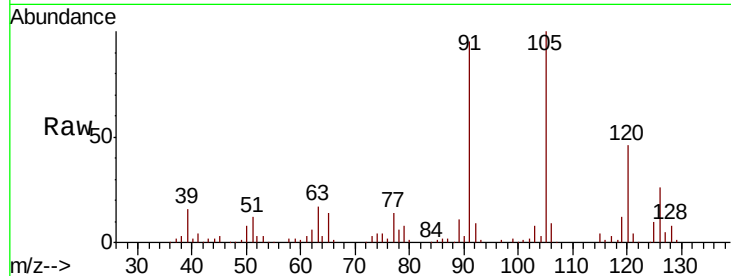
105 100

120 44.9 37.2 55.8

Manual Integrations
APPROVED

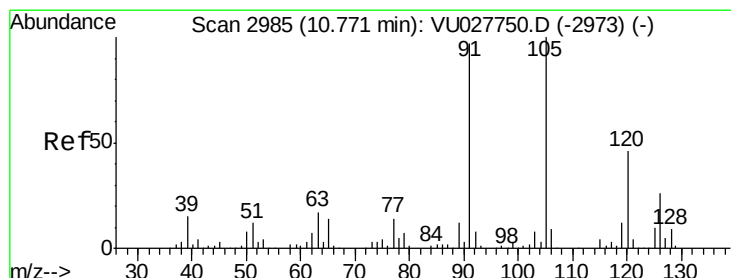
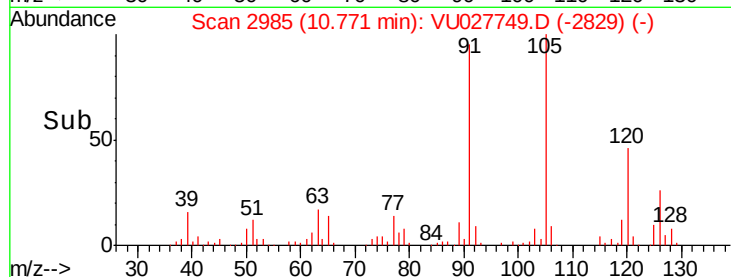
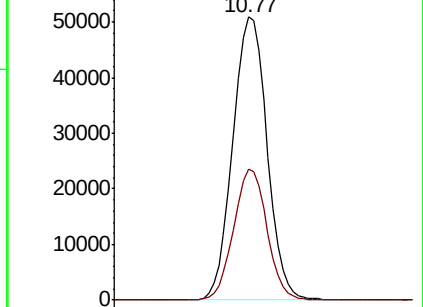
sam

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

4-Chlorotoluene

Concen: 5.090 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU027749.D

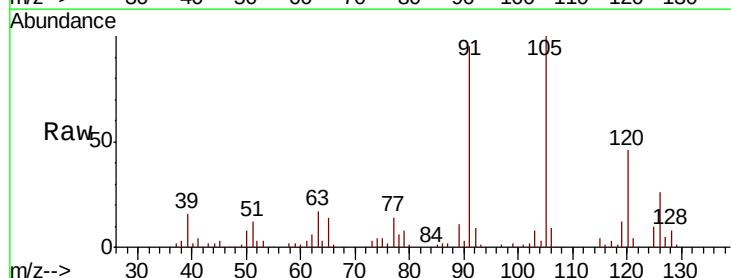
Acq: 22 Oct 2018 19:09

Tgt Ion:126 Resp: 20788

Ion Ratio Lower Upper

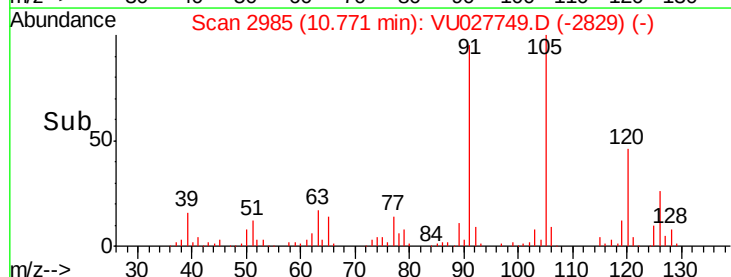
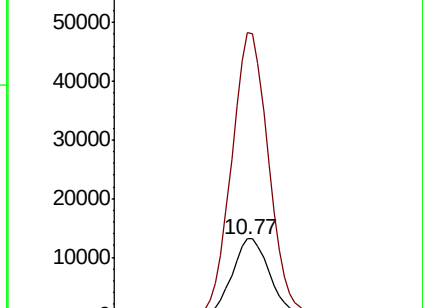
126 100

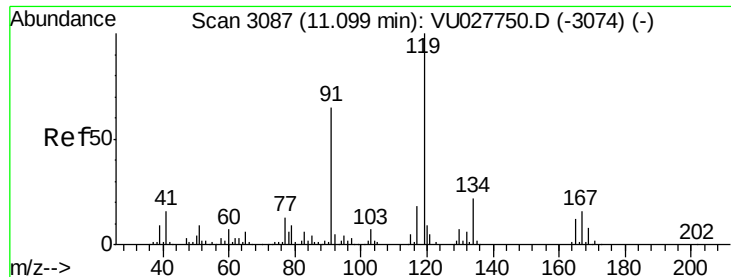
91 363.2 0.0 734.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#77

tert-Butylbenzene

Concen: 4.952 ug/l

RT: 11.10 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

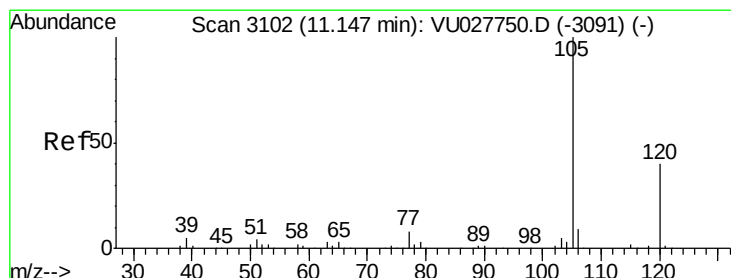
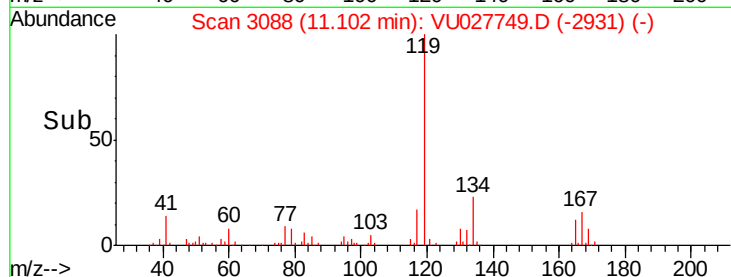
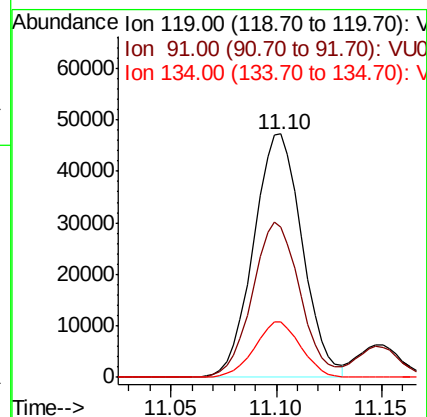
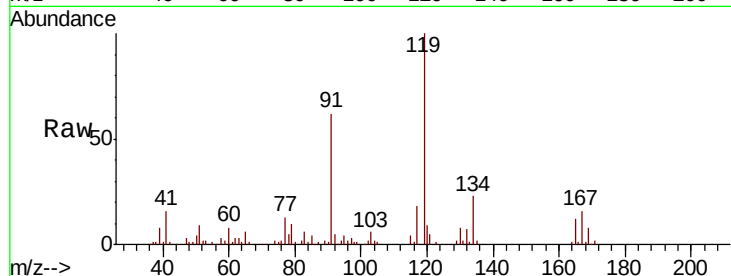
VSTDIC005

Tot Ion:	119	Resp:	75954
Ion	Ratio	Lower	Upper
119	100		
91	62.1	31.8	95.4
134	21.7	17.7	26.5

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#78

1,2,4-Trimethylbenzene

Concen: 5.035 ug/l

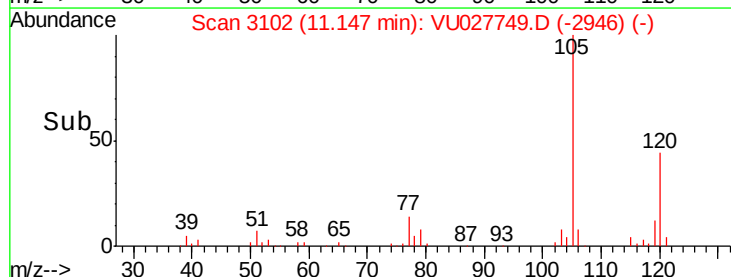
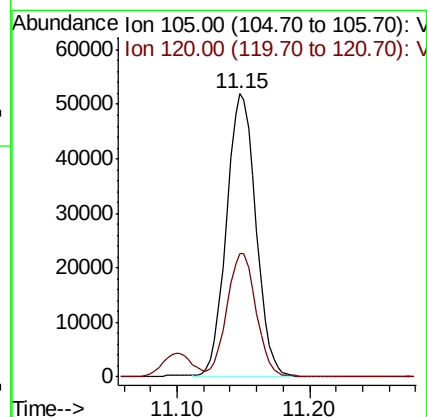
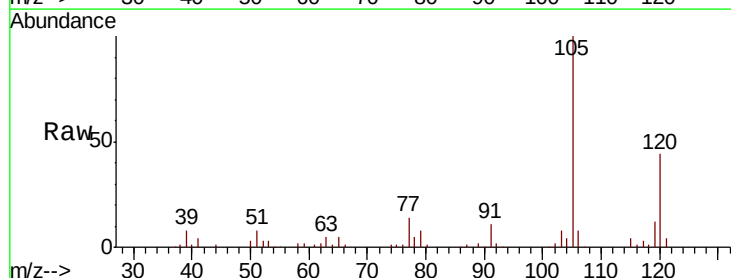
RT: 11.15 min Scan# 3102

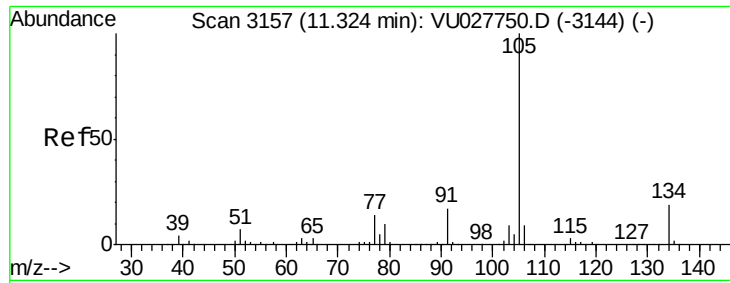
Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Tgt Ion:	105	Resp:	80279
Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.6	64.6





#79

sec-Butylbenzene

Concen: 5.123 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 100562

Ion Ratio Lower Upper

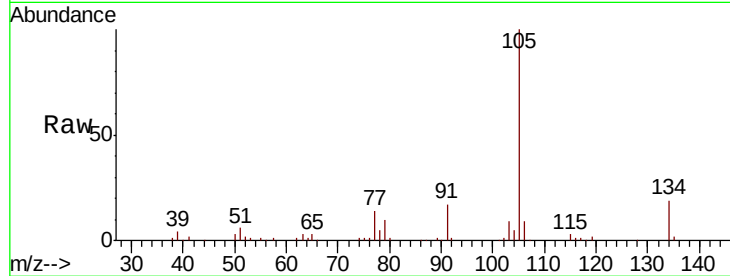
105 100

134 18.8 15.2 22.8

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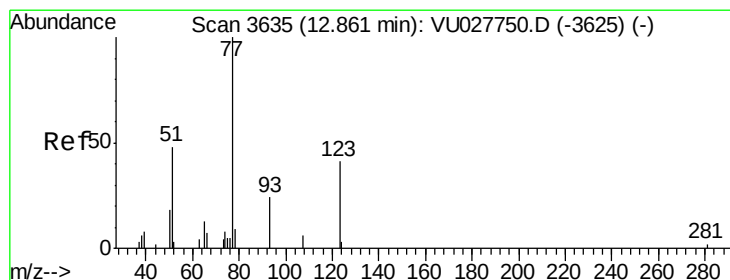
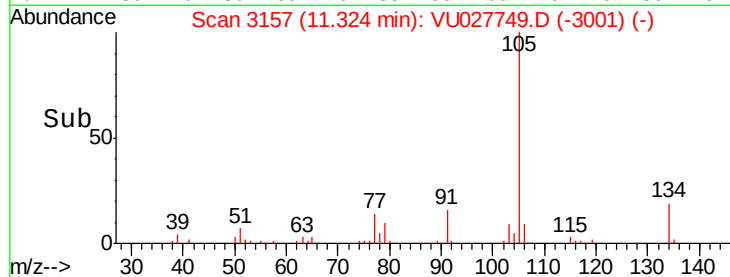
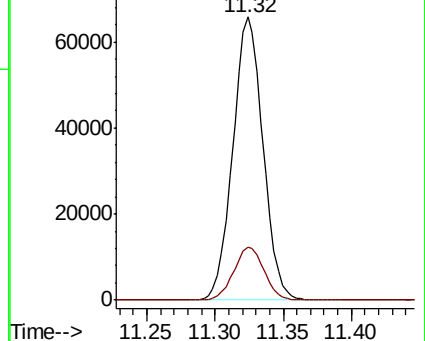
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#80

Nitrobenzene

Concen: 19.921 ug/l

RT: 12.86 min Scan# 3636

Delta R.T. 0.00 min

Lab File: VU027749.D

Acq: 22 Oct 2018 19:09

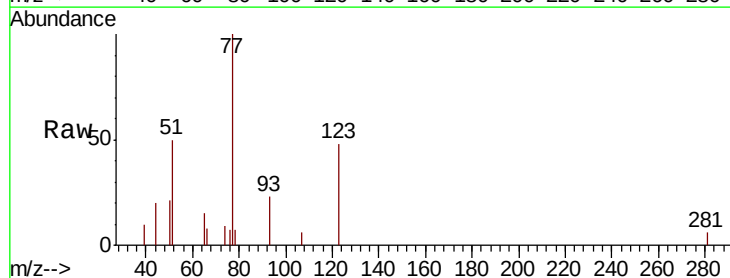
Tgt Ion: 77 Resp: 3454

Ion Ratio Lower Upper

77 100

123 40.2 16.9 59.9

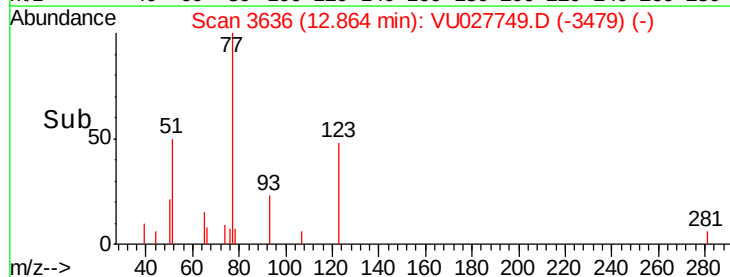
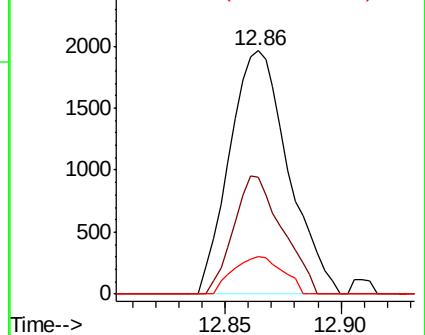
65 12.9 13.1 16.7#

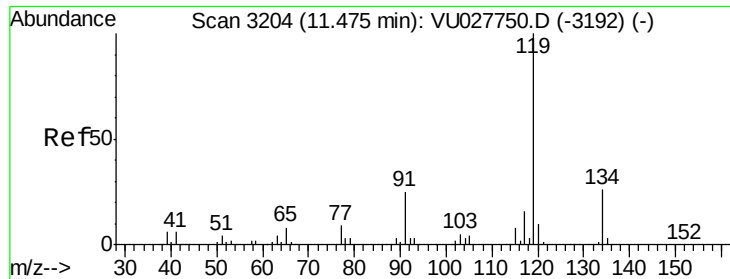


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





#81
 p-Isopropyltoluene
 Concen: 5.205 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

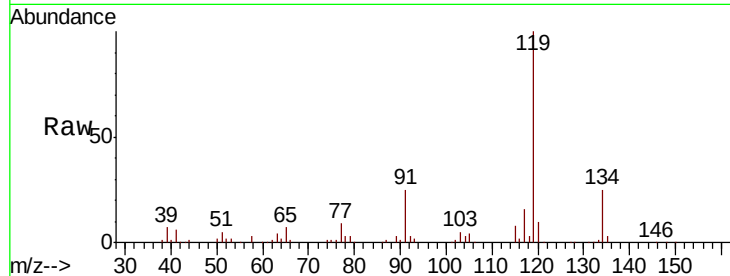
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	119	Resp:	83283
Ion Ratio	Lower	Upper	
119	100		
134	25.4	20.3	30.5
91	24.7	20.2	30.4

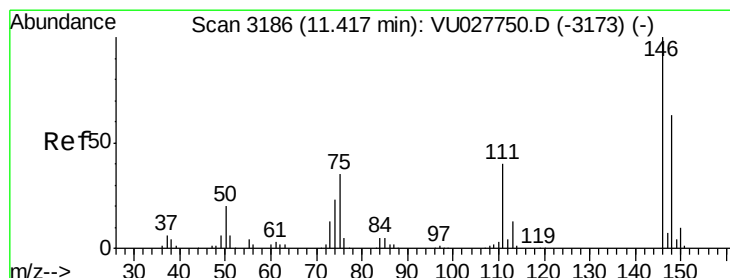
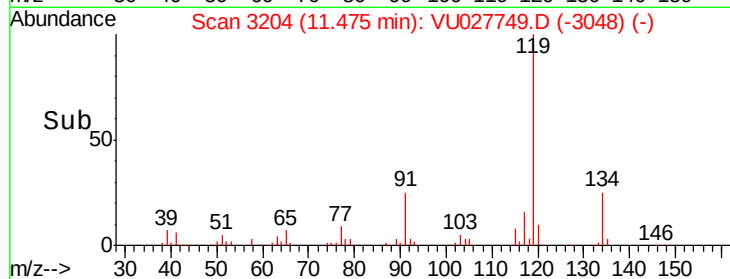
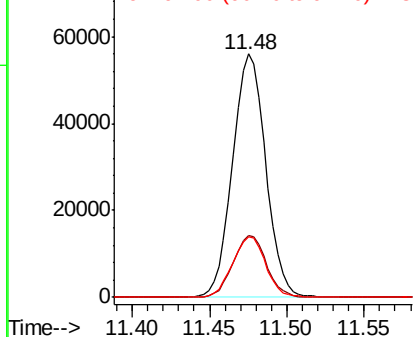
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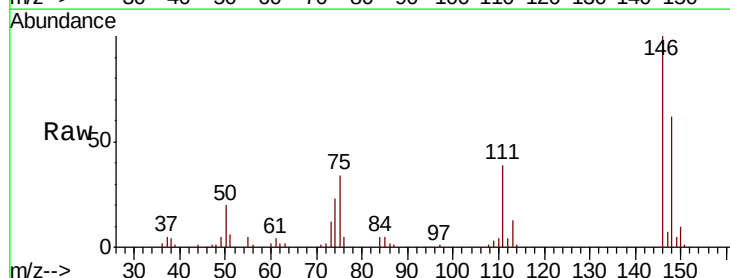


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

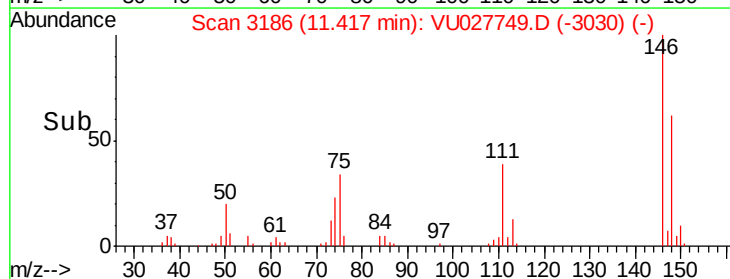
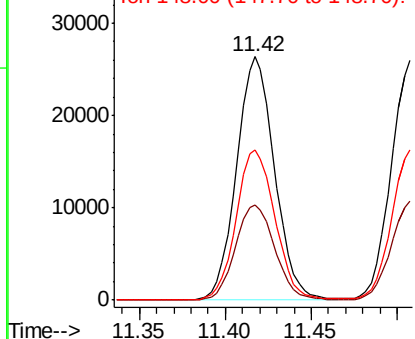


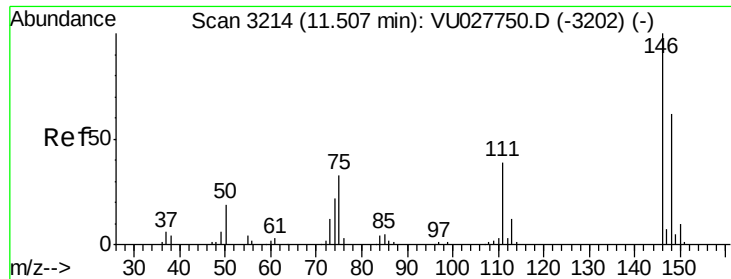
#82
 1,3-Dichlorobenzene
 Concen: 5.095 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion:	146	Resp:	40584
Ion Ratio	Lower	Upper	
146	100		
111	40.5	32.7	49.1
148	63.4	50.6	75.8



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





#83
 1,4-Dichlorobenzene
 Concen: 5.194 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

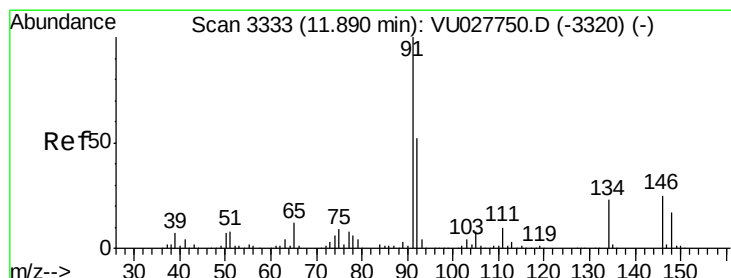
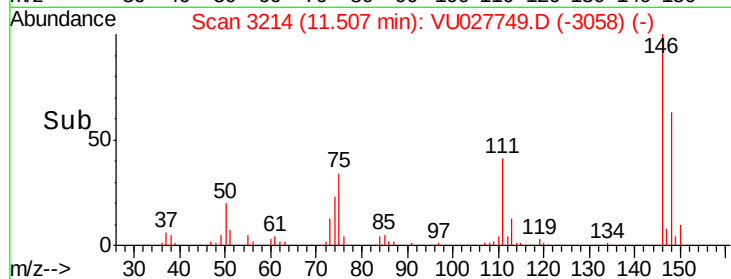
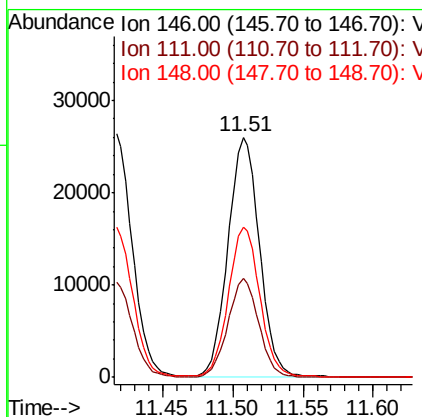
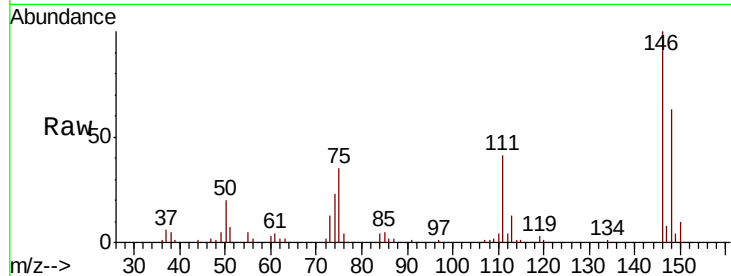
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	146	Resp:	40851
Ion Ratio	Lower	Upper	
146	100		
111	40.0	32.0	48.0
148	62.5	50.9	76.3

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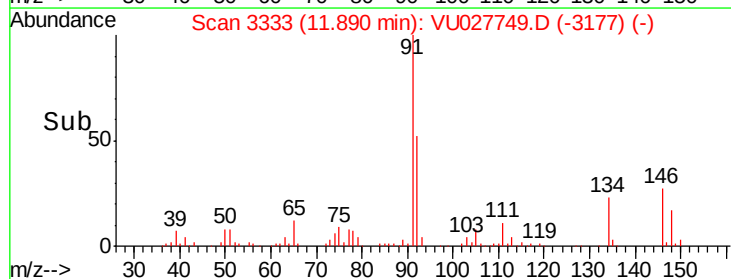
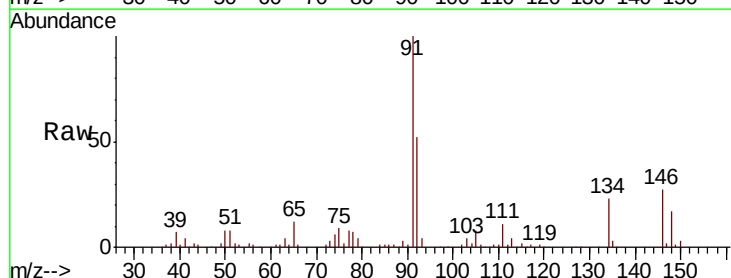
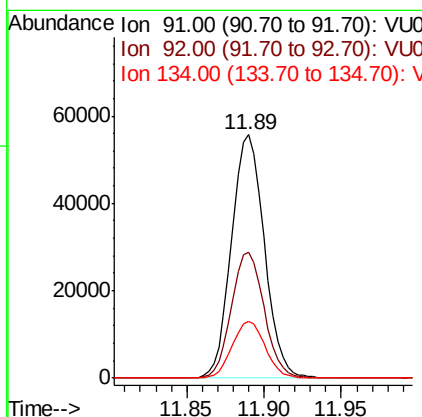
sam

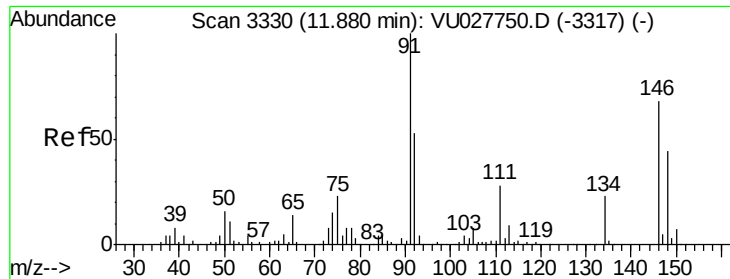
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#84
 n-Butylbenzene
 Concen: 5.433 ug/l
 RT: 11.89 min Scan# 3333
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion:	91	Resp:	82044
Ion Ratio	Lower	Upper	
91	100		
92	51.5	42.1	63.1
134	23.4	18.6	28.0





#85
 1,2-Dichlorobenzene
 Concen: 5.008 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

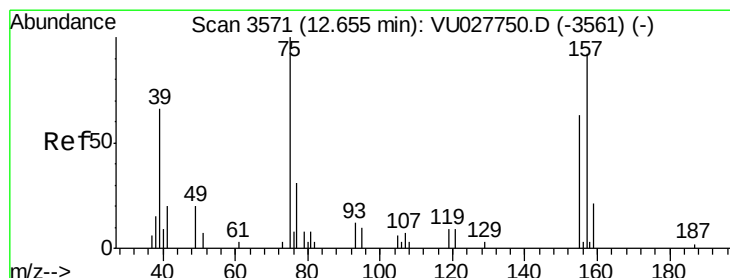
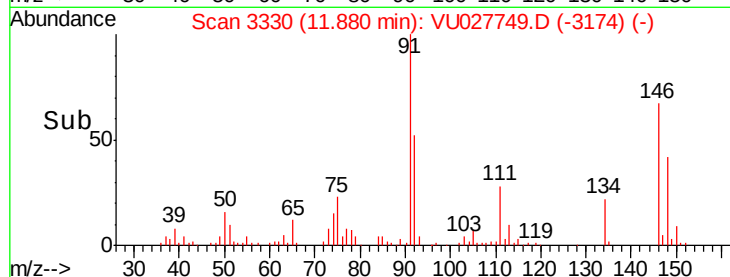
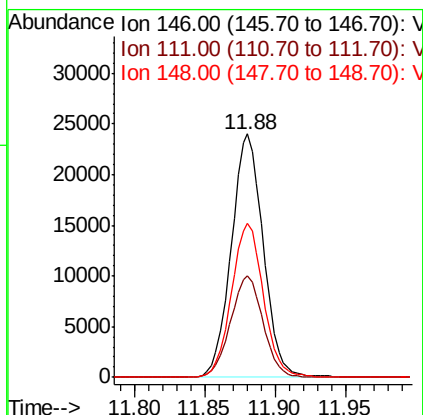
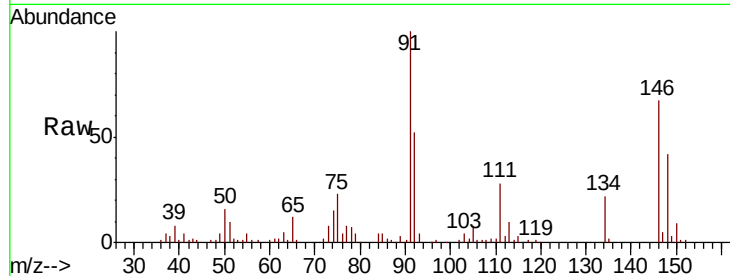
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.2	63.6
148	63.4	32.2	96.6

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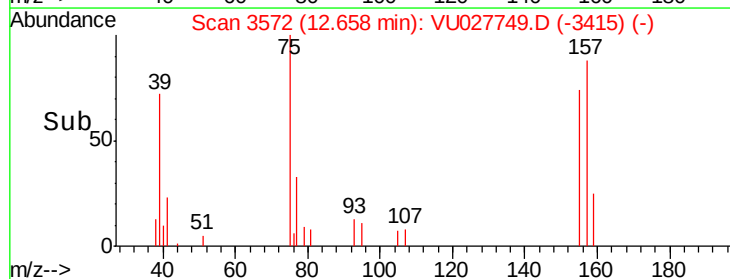
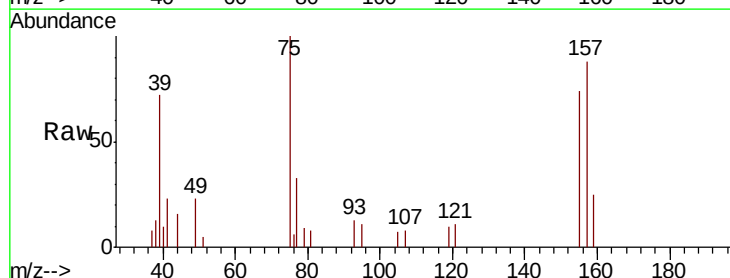
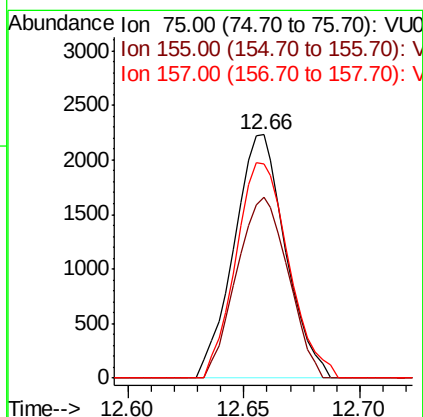
sam

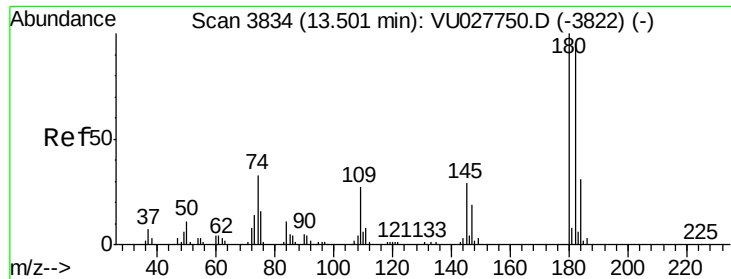
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#86
 1,2-Dibromo-3-Chloropropane
 Concen: 5.216 ug/l
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	74.2	55.5	83.3
157	90.8	71.0	106.4





#87
 1,2,4-Trichlorobenzene
 Concen: 5.392 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

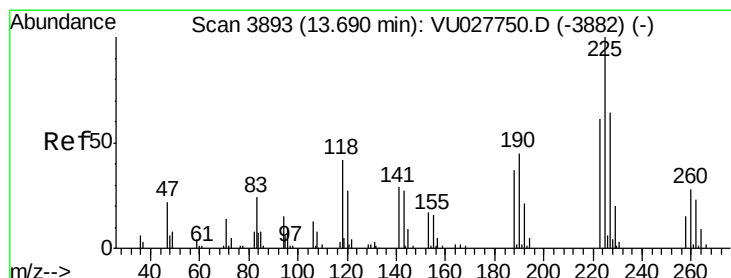
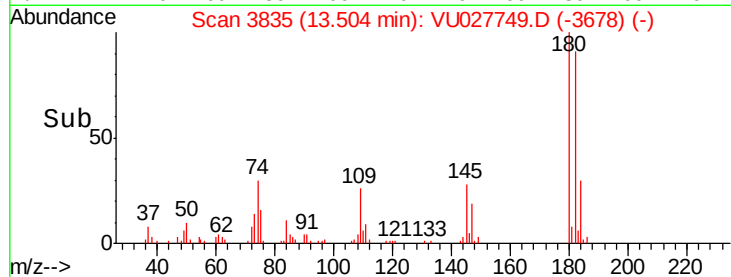
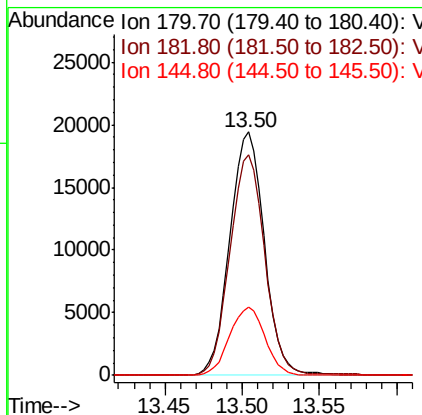
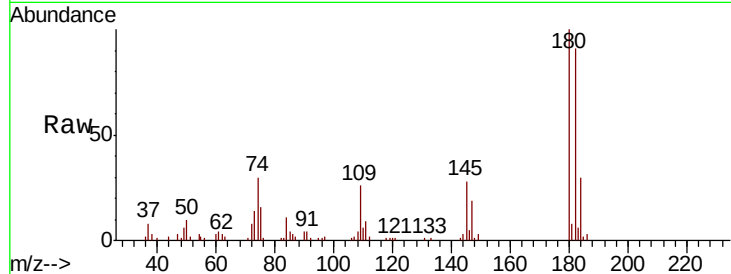
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	180	Resp:	30021
Ion Ratio	Lower	Upper	
180	100		
182	91.2	75.9	113.9
145	28.5	23.6	35.4

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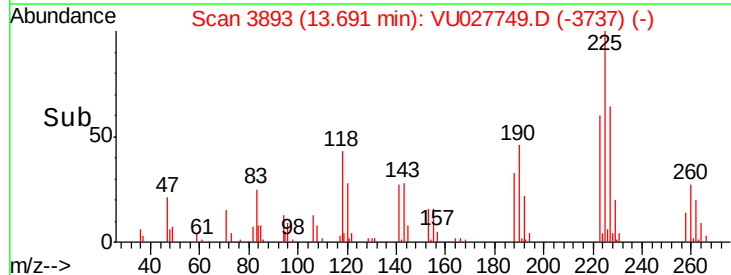
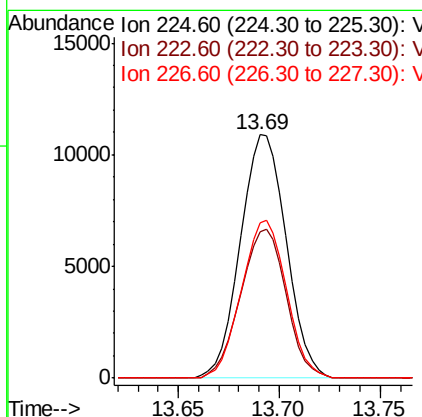
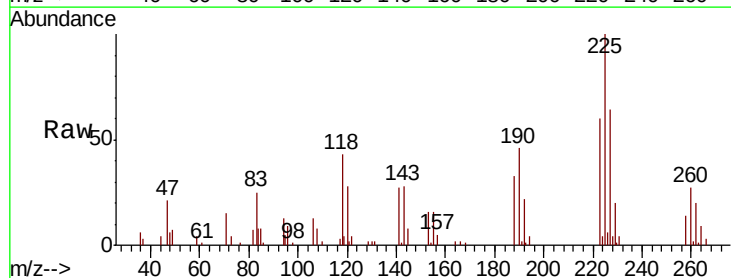
sam

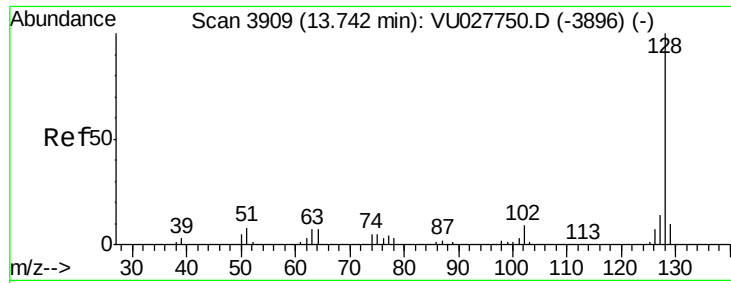
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#88
 Hexachlorobutadiene
 Concen: 5.244 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU027749.D
 Acq: 22 Oct 2018 19:09

Tgt Ion:	225	Resp:	17383
Ion Ratio	Lower	Upper	
225	100		
223	60.5	49.6	74.4
227	63.3	51.1	76.7





#89
Naphthalene
Concen: 4.928 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

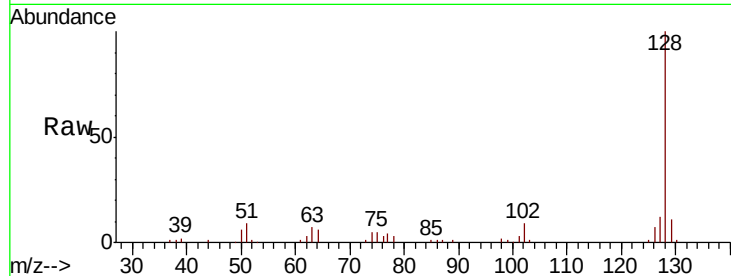
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.7	16.1
129	10.7	8.5	12.7

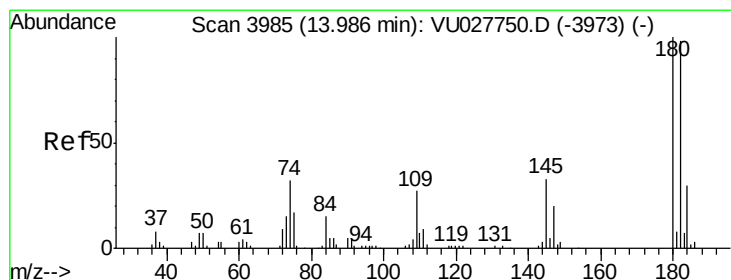
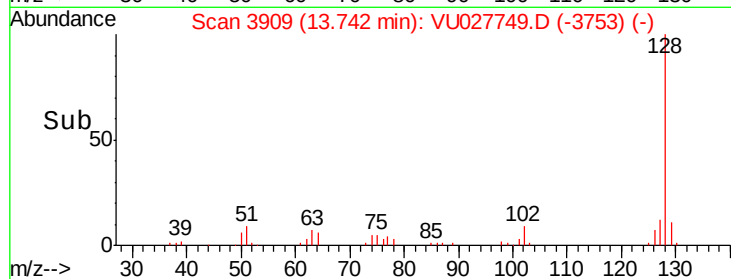
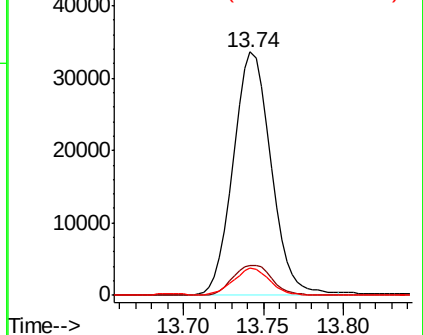
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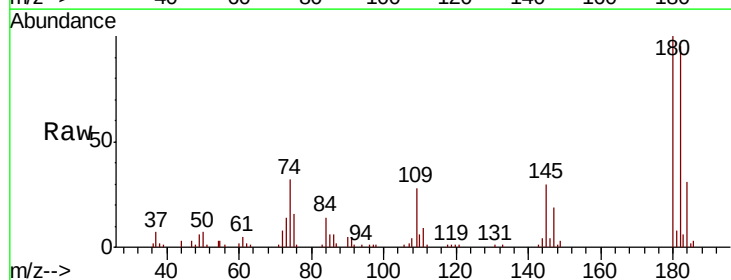


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#90
1,2,3-Trichlorobenzene
Concen: 5.311 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU027749.D
Acq: 22 Oct 2018 19:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	77.0	115.6
145	29.5	25.4	38.2



Abundance Ion 179.70 (179.40 to 180.40): V
Ion 181.70 (181.40 to 182.40): V
Ion 144.80 (144.50 to 145.50): V

