

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U0102318\
 Data File : VU027747.D
 Acq On : 22 Oct 2018 18:21
 Operator : MD/SY
 Sample : VSTDIC001
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

sam
 10/24/2018 2:18:57 PM

Quant Time: Oct 23 04:33:05 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	13311	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	4947	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	4809	1.01	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	5531	0.985	ug/l	95
3) Chloromethane	1.33	50	5960	0.988	ug/l	95
4) Vinyl Chloride	1.41	62	5349	0.949	ug/l	98
5) Bromomethane	1.63	94	2823	1.045	ug/l	100
6) Chloroethane	1.70	64	3092	0.559	ug/l	95
7) Trichlorofluoromethane	1.89	101	6681	1.008	ug/l	96
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	3432	0.937	ug/l	97
9) 1,1-Dichloroethene	2.29	96	3103	0.949	ug/l	99
10) Iodomethane	2.41	142	3801	0.864	ug/l	100
11) Allyl Chloride	2.59	41	7206	0.939	ug/l	98
12) Acrylonitrile	2.95	53	2065	1.986	ug/l #	83
13) Acetone	2.35	43	4915	5.397	ug/l	98
14) Carbon Disulfide	2.48	76	11633	0.982	ug/l	100
15) Methylene Chloride	2.70	84	3808	0.954	ug/l	98
16) trans-1,2-Dichloroethene	2.98	96	3315	0.904	ug/l	90
17) 1,1-Dichloroethane	3.45	63	7656	1.000	ug/l #	96
18) 2-Butanone	4.30	43	7819m	5.556	ug/l	
19) Cyclohexane	4.99	56	6424	0.917	ug/l	97
20) Methylcyclohexane	6.41	83	6624	0.968	ug/l	95
21) 2,2-Dichloropropane	4.23	77	7032	1.037	ug/l	95
22) cis-1,2-Dichloroethene	4.23	96	4226	1.015	ug/l	97
23) Diethyl Ether	2.11	59	3013	0.978	ug/l	96
24) tert-Butyl Alcohol	2.89	59	3421m	11.595	ug/l	
25) Methyl tert-Butyl Ether	3.01	73	9549	0.923	ug/l	98
26) Bromochloromethane	4.56	128	1584	0.940	ug/l	98
27) Chloroform	4.68	83	7456	0.988	ug/l	92
28) 1,1,1-Trichloroethane	4.92	97	6373	0.978	ug/l	98
29) 1,1-Dichloropropene	5.14	75	5594	0.975	ug/l	97
30) Carbon Tetrachloride	5.13	117	5754	0.991	ug/l	95
31) Isopropyl Ether	3.58	45	13480	0.938	ug/l	92
32) Ethyl-t-butyl ether	4.08	59	12023	0.948	ug/l	95
33) Tert-Amyl methyl ether	5.59	73	10033	0.942	ug/l	98
34) Propionitrile	4.36	54	1617	4.278	ug/l #	80
35) Benzene	5.40	78	15759	0.976	ug/l	94
36) 1,2-Dichloroethane	5.41	62	5458	1.060	ug/l #	96
37) Trichloroethene	6.19	130	3865	0.972	ug/l	93
38) 1,2-Dichloropropane	6.44	63	4624	1.015	ug/l	94
39) Methacrylonitrile	4.56	41	1925	1.034	ug/l #	86
40) Methyl acrylate	4.45	55	2445	0.968	ug/l #	83
41) Tetrahydrofuran	4.68	42	2125	2.124	ug/l #	84
42) 1-Chlorobutane	5.07	56	9451	1.052	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U0102318\
 Data File : VU027747.D
 Acq On : 22 Oct 2018 18:21
 Operator : MD/SY
 Sample : VSTDIC001
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDIC001

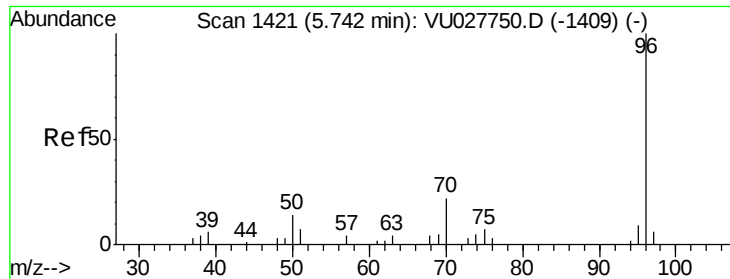
Manual Integrations
 APPROVED

sam
 10/24/2018 2:18:57 PM

Quant Time: Oct 23 04:33:05 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)
43) Dibromomethane	6.56	93	1956	0.964	ug/l	98
44) Bromodichloromethane	6.76	83	5369	0.985	ug/l	91
45) 4-Methyl-2-Pentanone	7.47	43	16386	4.771	ug/l	97
46) t-1,4-Dichloro-2-butene	10.52	75	2049m	1.614	ug/l	
47) Methyl methacrylate	6.63	69	4153	1.850	ug/l	98
48) Ethyl methacrylate	8.03	69	4018	0.836	ug/l	88
49) Toluene	7.64	92	9171	0.938	ug/l	97
50) t-1,3-Dichloropropene	7.89	75	5246	0.947	ug/l	95
51) cis-1,3-Dichloropropene	7.27	75	6436	0.980	ug/l	94
52) 1,1,2-Trichloroethane	8.07	97	2638	0.919	ug/l	94
53) 1,3-Dichloropropane	8.24	76	5232	0.987	ug/l	99
54) 2-Hexanone	8.37	43	11494	4.543	ug/l	96
55) Dibromochloromethane	8.48	129	3256	0.932	ug/l	96
56) 1,2-Dibromoethane	8.59	107	2588	0.955	ug/l	99
58) Tetrachloroethene	8.23	164	3811	1.059	ug/l	97
59) Chlorobenzene	9.12	112	10256	1.001	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.21	131	3505	0.944	ug/l	98
61) Pentachloroethane	11.10	117	2744	0.955	ug/l	99
62) Hexachloroethane	12.14	117	2765	0.893	ug/l	94
63) Ethyl Benzene	9.25	91	18795	0.993	ug/l	99
64) m/p-Xylenes	9.38	106	13263	1.916	ug/l	96
65) o-Xylene	9.78	106	6740	0.975	ug/l	99
66) Styrene	9.79	104	10889	0.952	ug/l	100
67) Bromoform	9.96	173	1828	0.902	ug/l #	94
69) Isopropylbenzene	10.17	105	18658	1.009	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.46	83	3521	0.946	ug/l #	98
71) 1,2,3-Trichloropropane	10.50	75	2896m	1.001	ug/l	
72) Bromobenzene	10.45	156	3933	0.951	ug/l	91
73) n-propylbenzene	10.59	120	4412	0.931	ug/l	81
74) 2-Chlorotoluene	10.67	126	3961	0.936	ug/l	89
75) 1,3,5-Trimethylbenzene	10.77	105	14913	0.966	ug/l	97
76) 4-Chlorotoluene	10.77	126	4231	1.038	ug/l	93
77) tert-Butylbenzene	11.10	119	15340	1.002	ug/l	98
78) 1,2,4-Trimethylbenzene	11.15	105	15167	0.953	ug/l	96
79) sec-Butylbenzene	11.32	105	19654	1.003	ug/l	99
80) Nitrobenzene	12.87	77	387	2.237	ug/l #	44
81) p-Isopropyltoluene	11.48	119	15885	0.995	ug/l	99
82) 1,3-Dichlorobenzene	11.42	146	8228	1.035	ug/l	96
83) 1,4-Dichlorobenzene	11.51	146	8153	1.039	ug/l	98
84) n-Butylbenzene	11.89	91	14865	0.986	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	7692	1.015	ug/l	97
86) 1,2-Dibromo-3-Chloropropan	12.66	75	586	0.890	ug/l	96
87) 1,2,4-Trichlorobenzene	13.50	180	5054	0.910	ug/l	93
88) Hexachlorobutadiene	13.69	225	3294	0.996	ug/l	99
89) Naphthalene	13.75	128	9690	0.882	ug/l	100
90) 1,2,3-Trichlorobenzene	13.99	180	5142	1.002	ug/l	98

(#) = 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: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

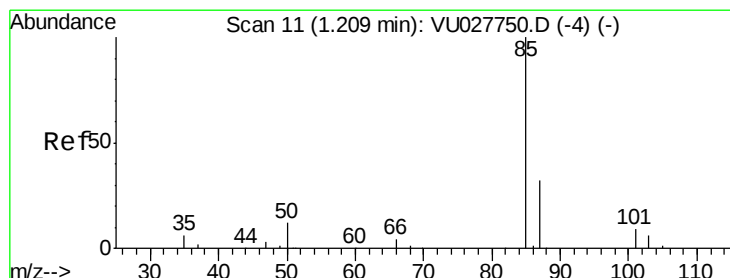
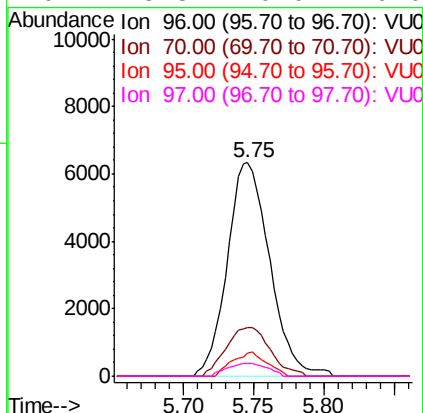
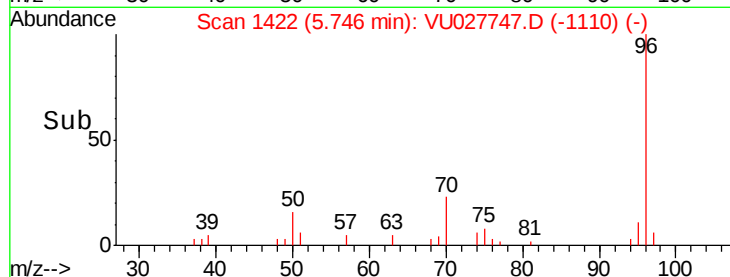
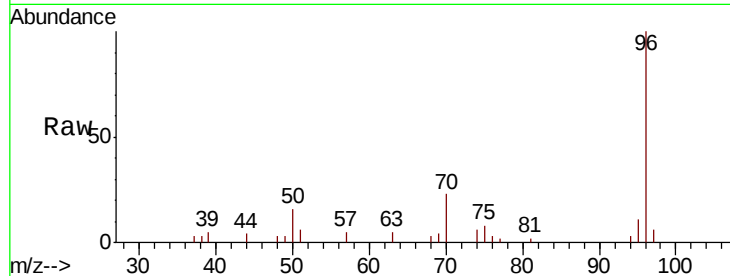
ClientSampleId :

VSTDIC001

Tot Ion:	96	Resp:	13311
Ion Ratio	Lower	Upper	
96	100		
70	23.7	17.7	26.5
95	9.2	7.0	10.6
97	5.8	0.0	0.0#

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM



#2

Dichlorodifluoromethane

Concen: 0.985 ug/l

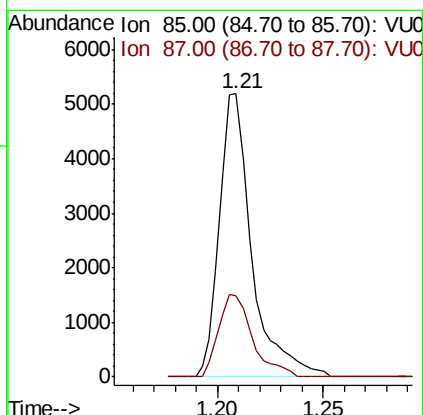
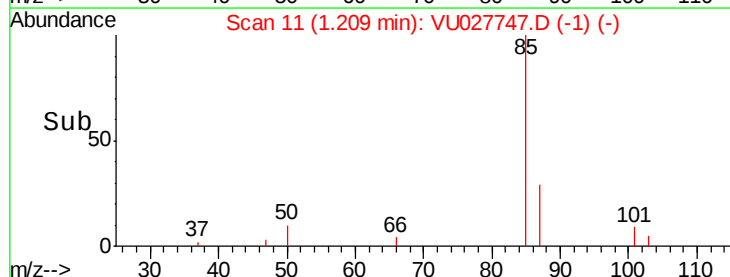
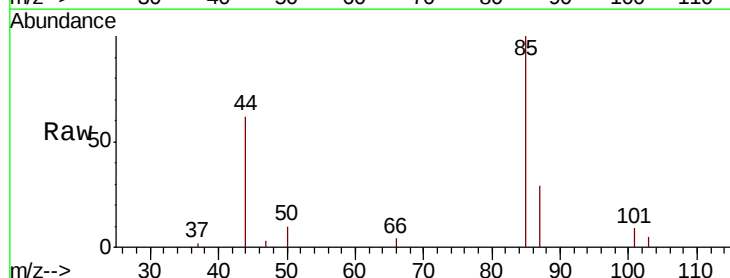
RT: 1.21 min Scan# 11

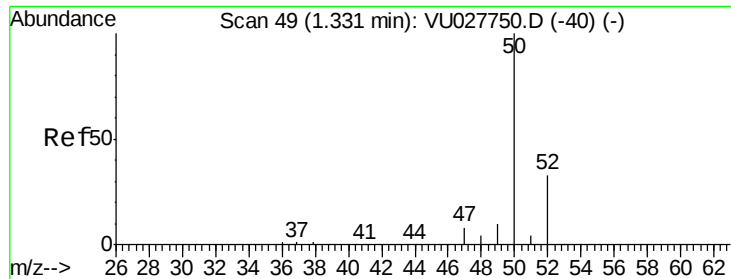
Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Tgt Ion:	85	Resp:	5531
Ion Ratio	Lower	Upper	
85	100		
87	28.7	15.9	47.6





#3

Chloromethane

Concen: 0.988 ug/l

RT: 1.33 min Scan# 50

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 50 Resp: 5960

Ion Ratio Lower Upper

50 100

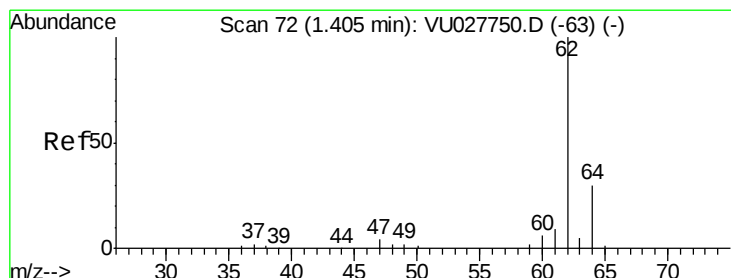
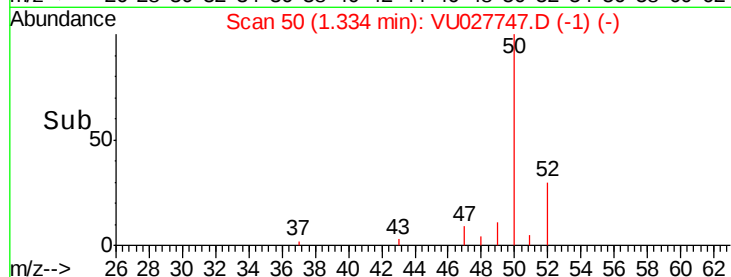
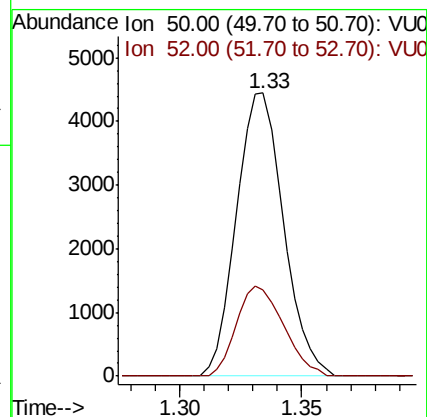
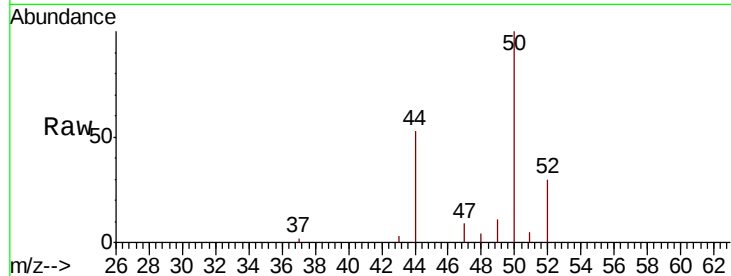
52 30.4 26.6 40.0

Manual Integrations

APPROVED

sam

10/24/2018 2:18:57 PM



#4

Vinyl Chloride

Concen: 0.949 ug/l

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027747.D

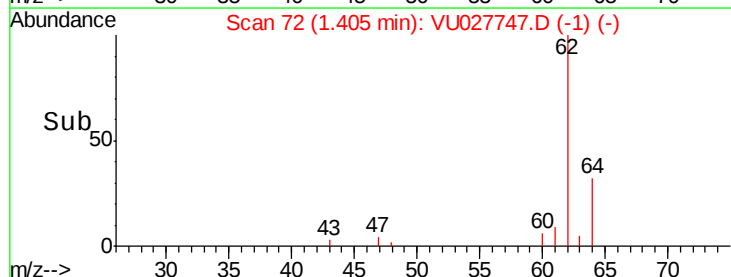
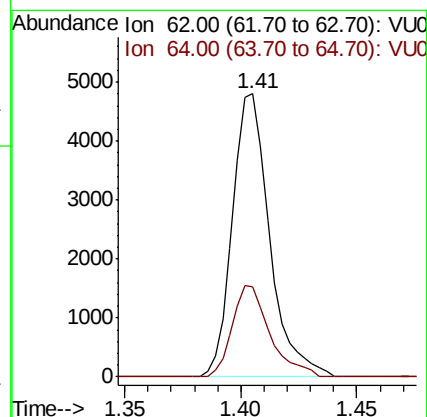
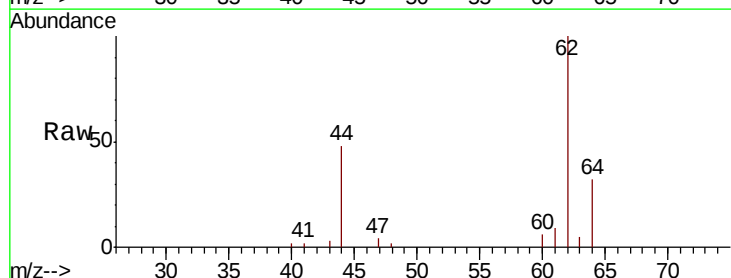
Acq: 22 Oct 2018 18:21

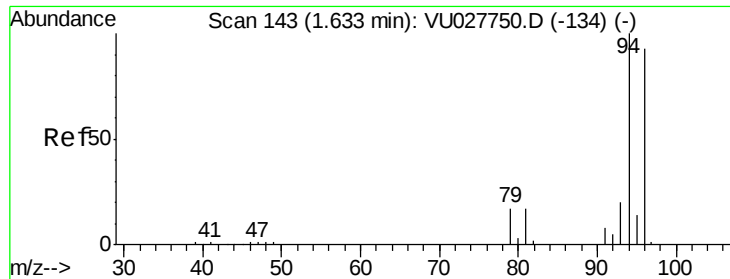
Tgt Ion: 62 Resp: 5349

Ion Ratio Lower Upper

62 100

64 31.6 24.3 36.5





#5

Bromomethane

Concen: 1.045 ug/l

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 94 Resp: 2823

Ion Ratio Lower Upper

94 100

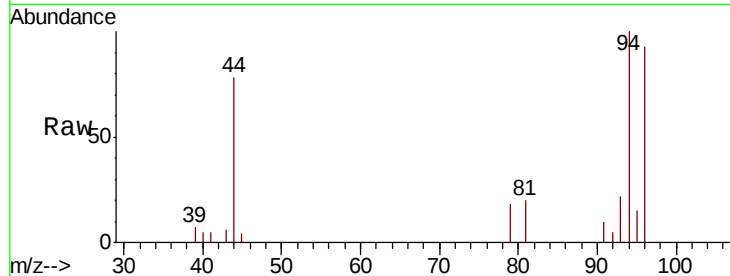
96 93.0 74.2 111.4

Manual Integrations

APPROVED

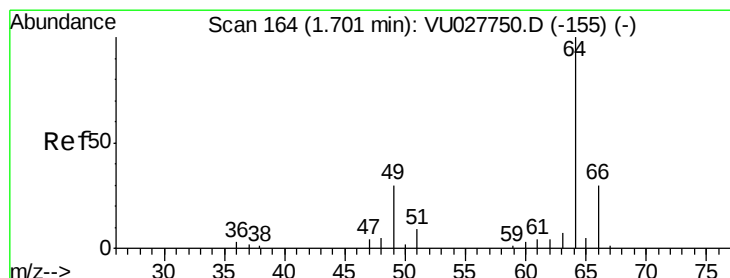
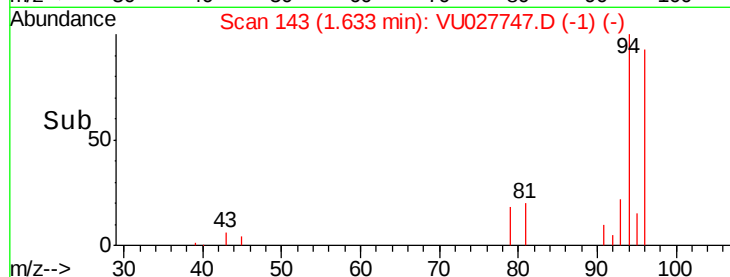
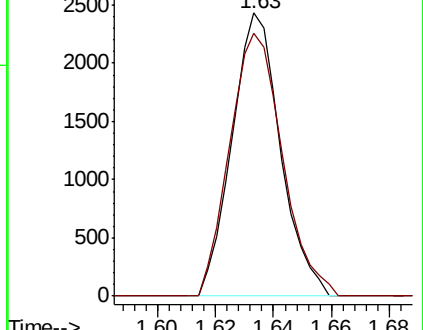
sam

10/24/2018 2:18:57 PM



Abundance Ion 94.00 (93.70 to 94.70): VU027747.D (-134) (-)

Ion 96.00 (95.70 to 96.70): VU027747.D (-134) (-)



#6

Chloroethane

Concen: 0.559 ug/l

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU027747.D

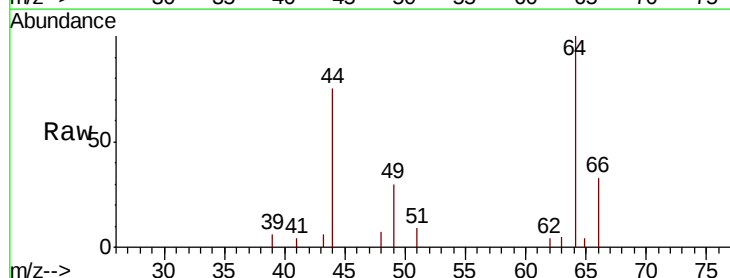
Acq: 22 Oct 2018 18:21

Tgt Ion: 64 Resp: 3092

Ion Ratio Lower Upper

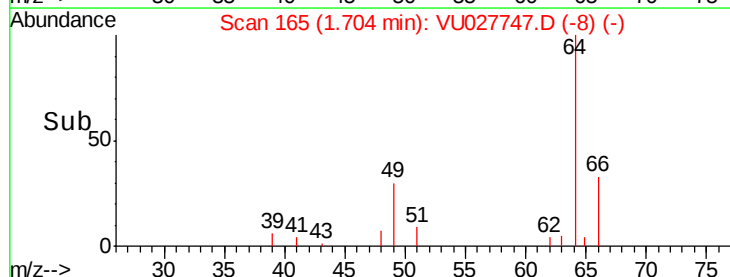
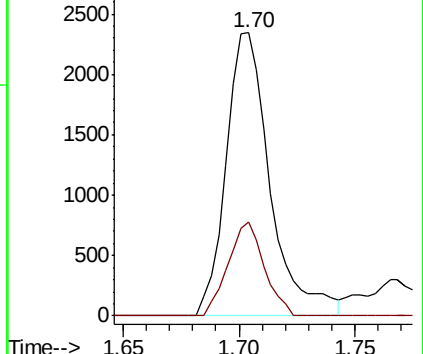
64 100

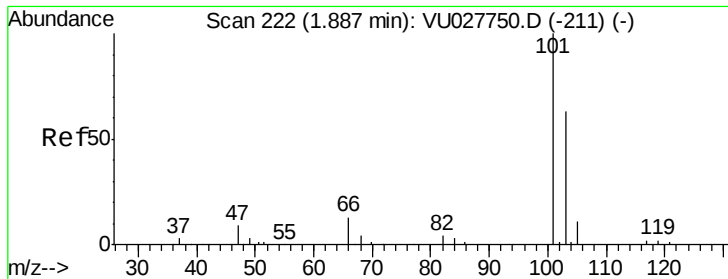
66 33.2 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VU027747.D (-155) (-)

Ion 66.00 (65.70 to 66.70): VU027747.D (-155) (-)





#7

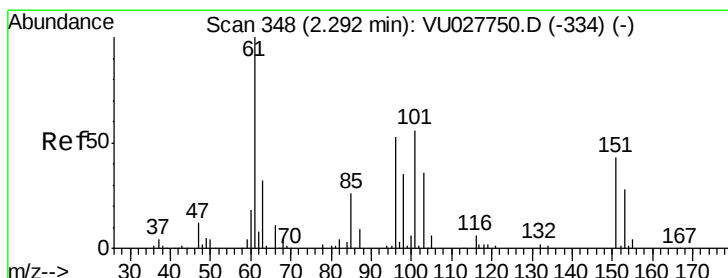
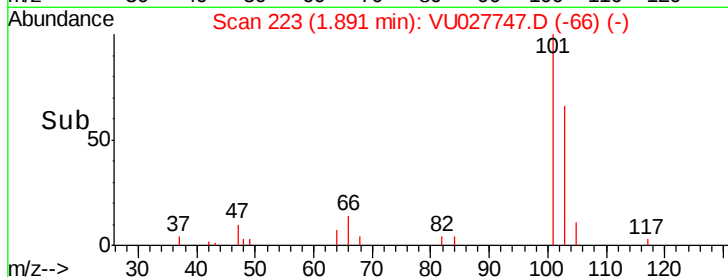
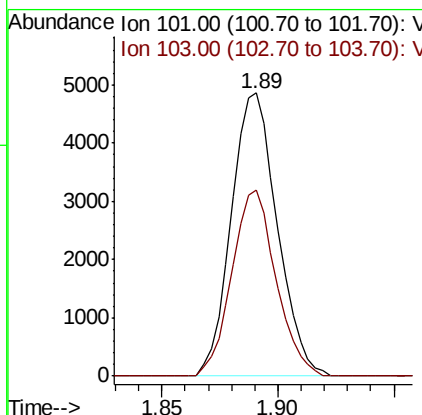
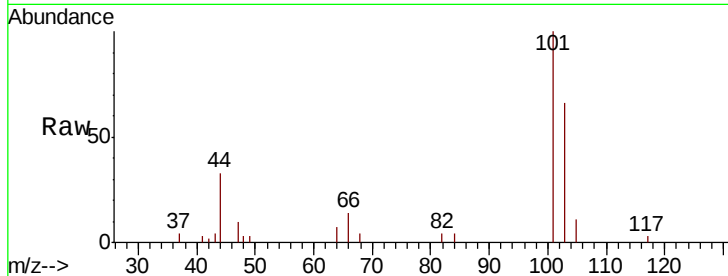
Trichlorofluoromethane
Concen: 1.008 ug/l
RT: 1.89 min Scan# 223
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	50.2	75.2

Manual Integrations
APPROVED

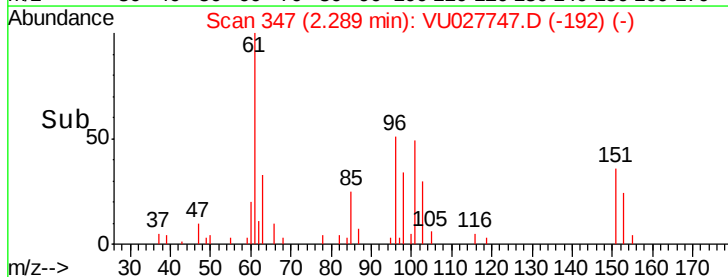
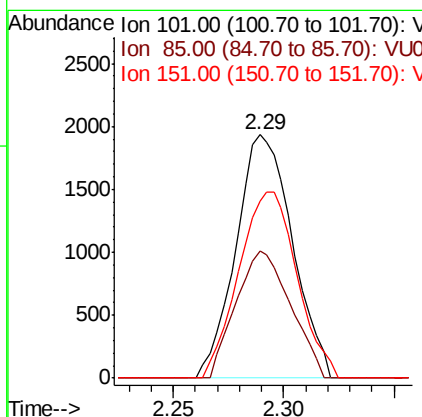
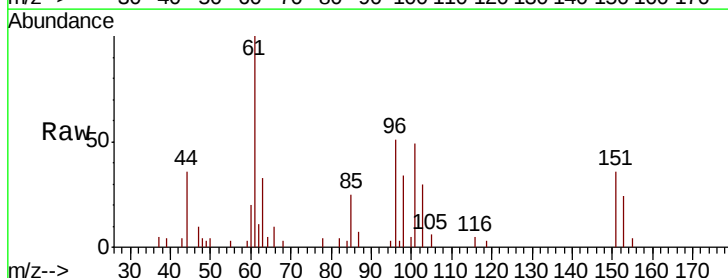
sam
10/24/2018 2:18:57 PM

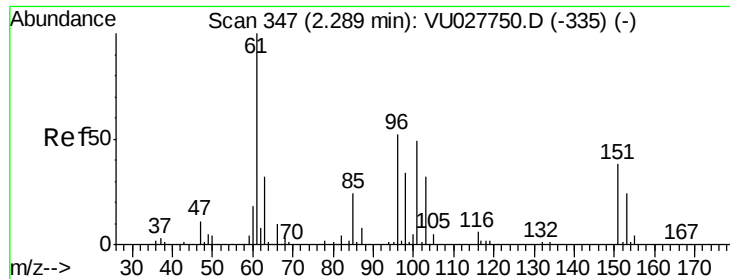


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.937 ug/l
RT: 2.29 min Scan# 347
Delta R.T. -0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
101	100		
85	50.6	38.2	57.2
151	79.1	61.8	92.8





#9

1,1-Dichloroethene

Concen: 0.949 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

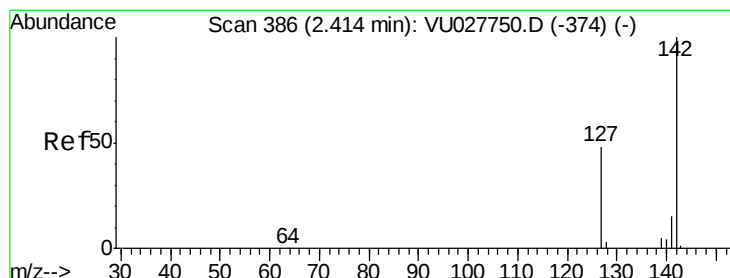
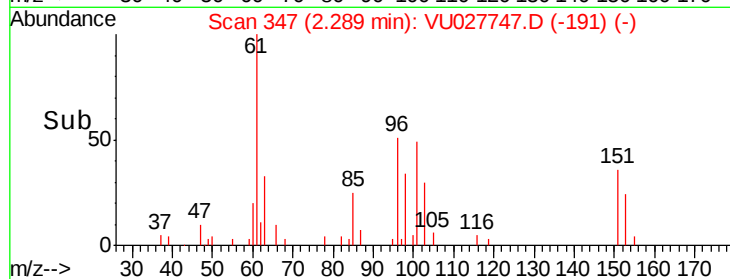
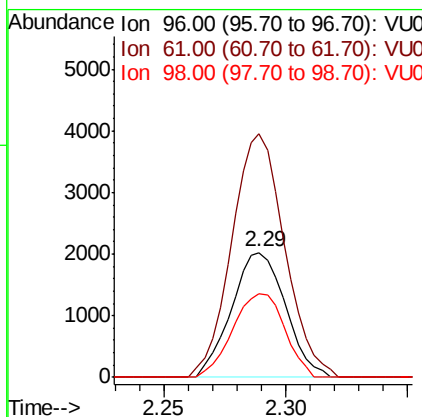
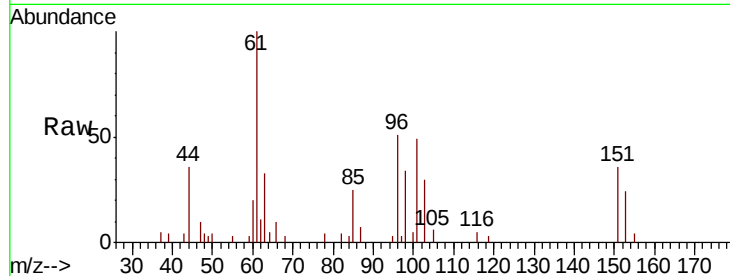
ClientSampleId :

VSTDIC001

Tot Ion:	96	Resp:	3103
Ion	Ratio	Lower	Upper
96	100		
61	194.7	0.0	581.4
98	66.5	0.0	131.2

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM



#10

Iodomethane

Concen: 0.864 ug/l

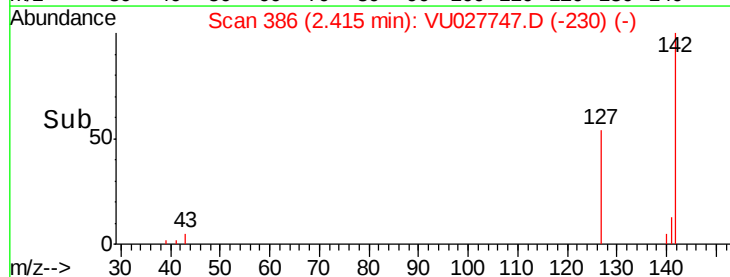
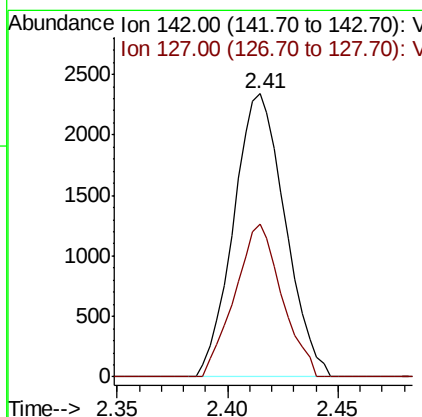
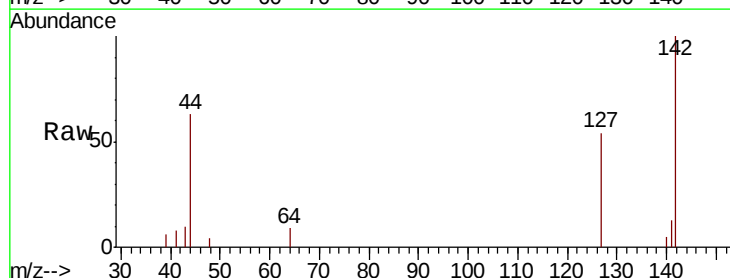
RT: 2.41 min Scan# 386

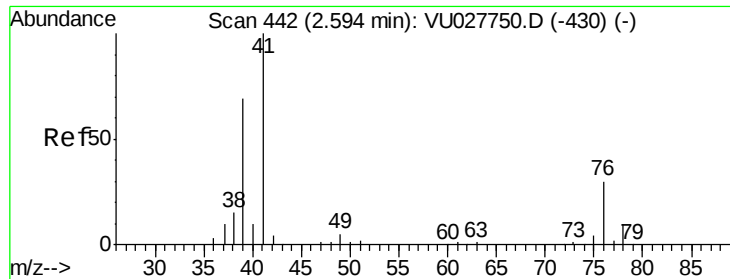
Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Tgt Ion:	142	Resp:	3801
Ion	Ratio	Lower	Upper
142	100		
127	49.2	39.2	58.8





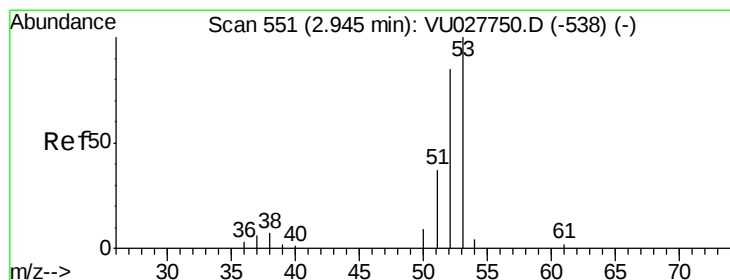
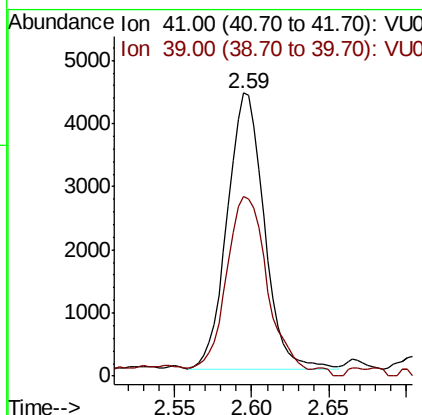
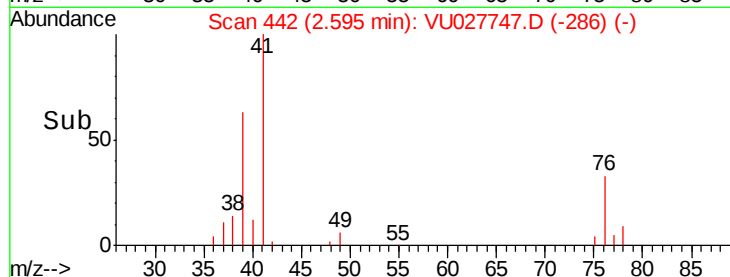
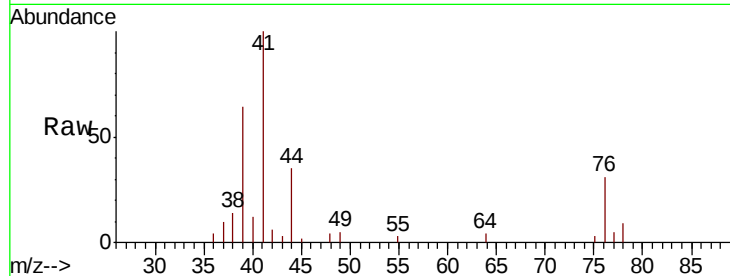
#11
Allvl Chloride
Concen: 0.939 ug/l
RT: 2.59 min Scan# 442
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion: 41 Resp: 7206
Ion Ratio Lower Upper
41 100
39 67.2 55.4 83.0

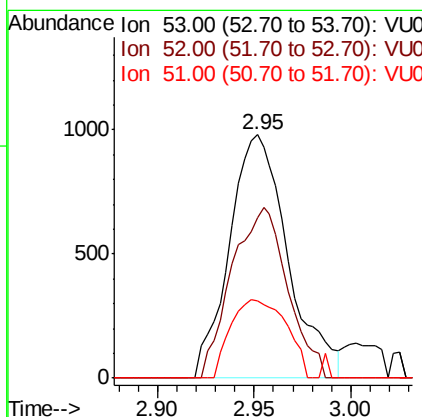
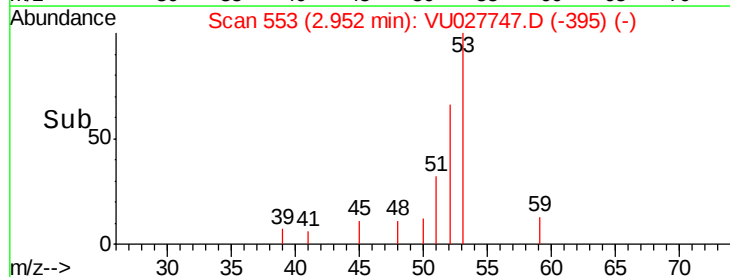
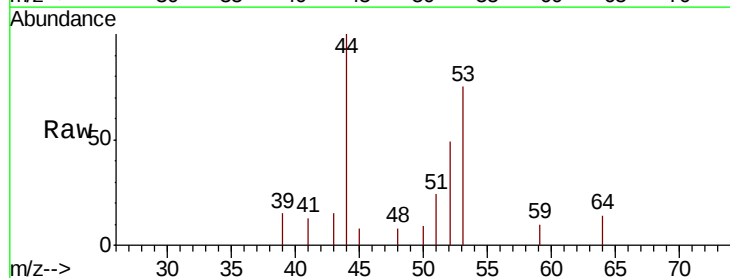
Manual Integrations
APPROVED

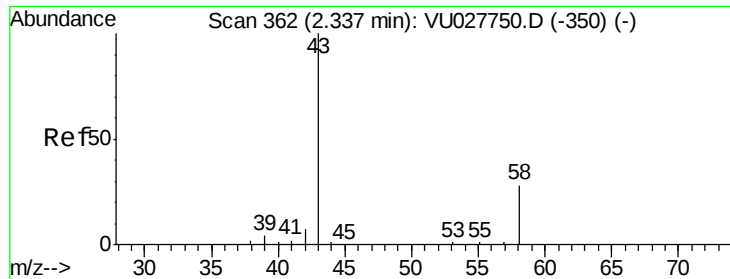
sam
10/24/2018 2:18:57 PM



#12
Acrylonitrile
Concen: 1.986 ug/l
RT: 2.95 min Scan# 553
Delta R.T. 0.01 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion: 53 Resp: 2065
Ion Ratio Lower Upper
53 100
52 66.9 67.9 101.9#
51 30.5 30.0 45.0





#13

Acetone

Concen: 5.397 ug/l

RT: 2.35 min Scan# 366

Delta R.T. 0.01 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 4915

Ion Ratio Lower Upper

43 100

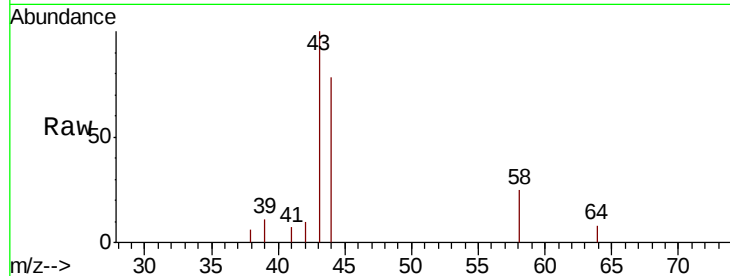
58 26.9 22.3 33.5

Manual Integrations

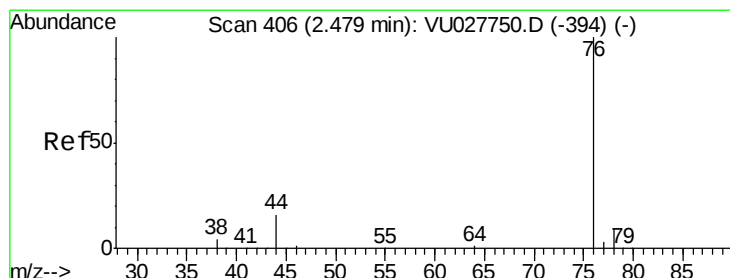
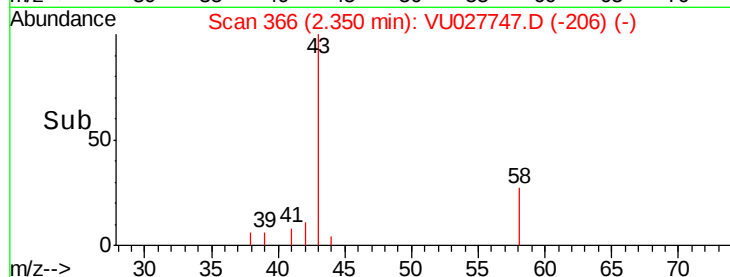
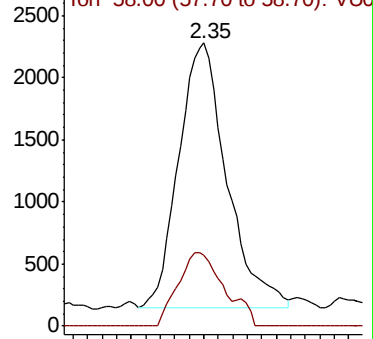
APPROVED

sam

10/24/2018 2:18:57 PM



Abundance Ion 43.00 (42.70 to 43.70): VU027747.D (-206) (-)



#14

Carbon Disulfide

Concen: 0.982 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027747.D

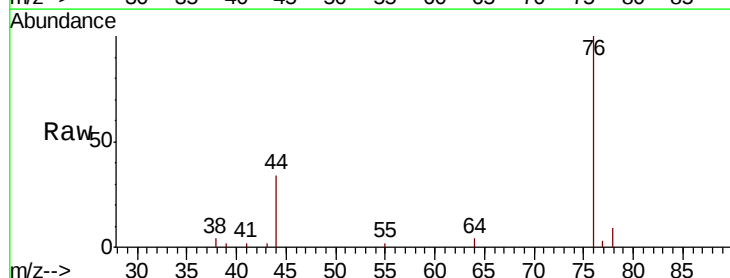
Acq: 22 Oct 2018 18:21

Tgt Ion: 76 Resp: 11633

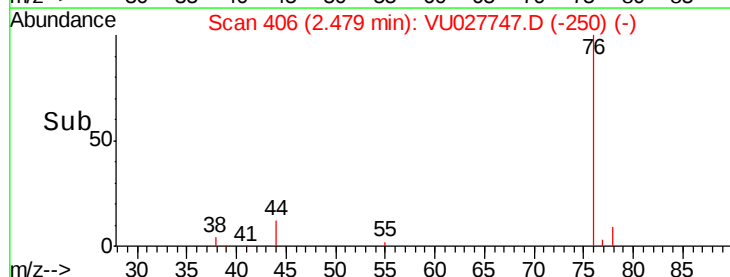
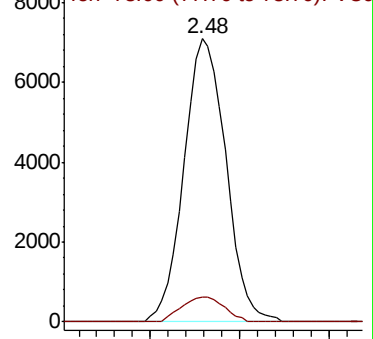
Ion Ratio Lower Upper

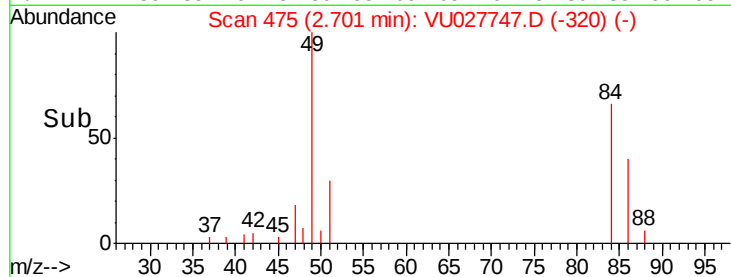
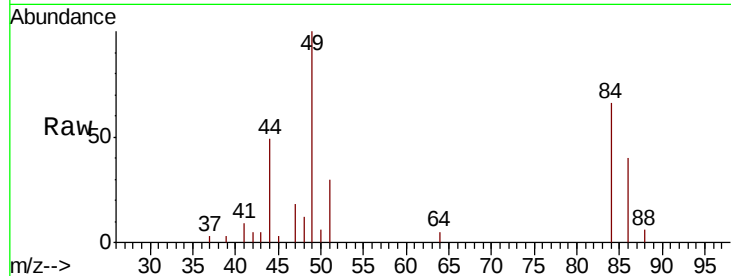
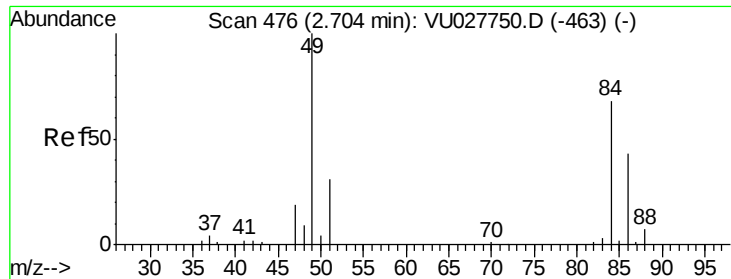
76 100

78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU027747.D (-250) (-)





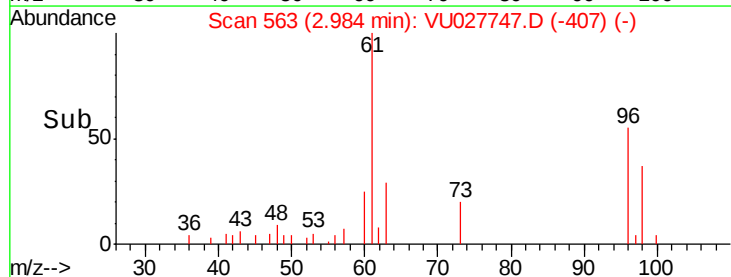
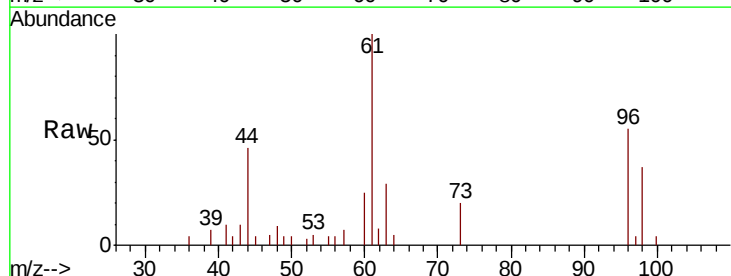
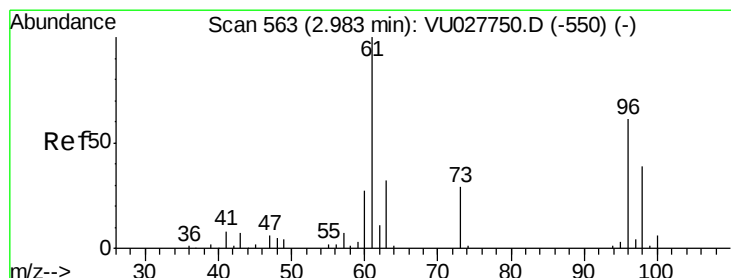
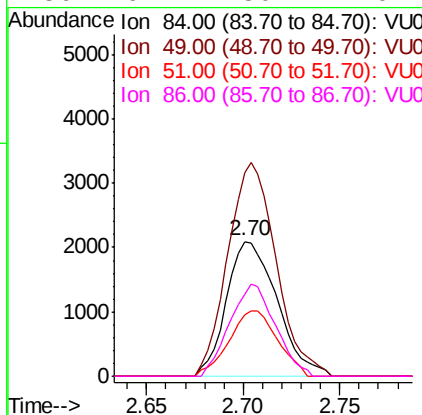
#15
Methvlene Chloride
Concen: 0.954 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tot Ion:	84	Resp:	3808
Ion	Ratio	Lower	Upper
84	100		
49	151.2	118.5	177.7
51	45.5	0.0	91.0
86	61.1	50.7	76.1

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

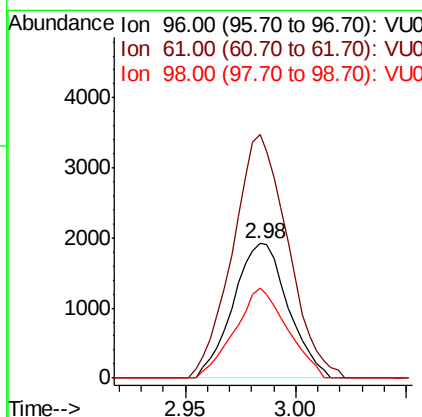
Manual Integrations
APPROVED

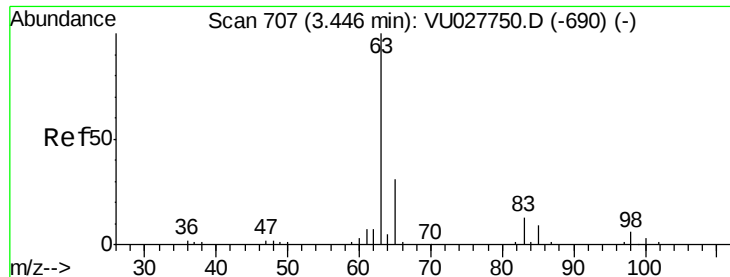
sam
10/24/2018 2:18:57 PM



#16
trans-1,2-Dichloroethene
Concen: 0.904 ug/l
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion:	96	Resp:	3315
Ion	Ratio	Lower	Upper
96	100		
61	180.9	131.8	197.6
98	66.7	51.2	76.8





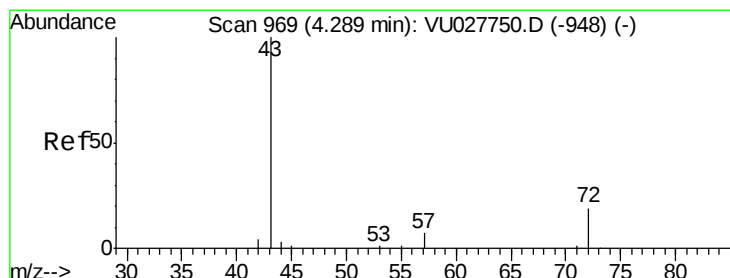
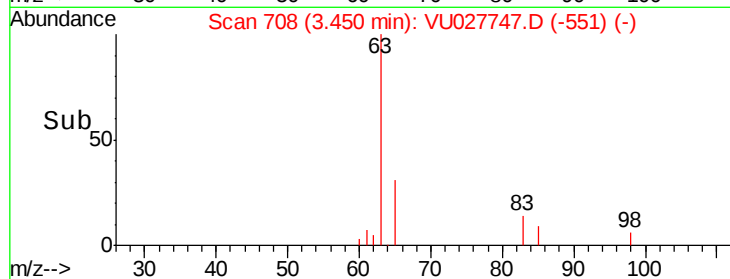
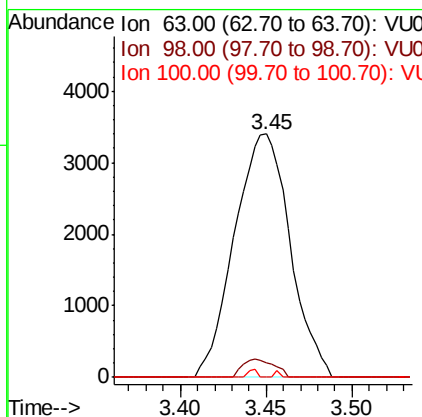
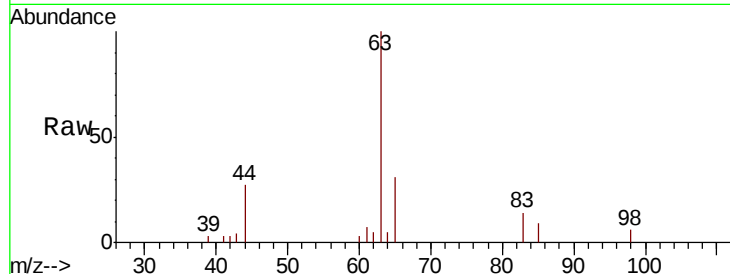
#17
 1,1-Dichloroethane
 Concen: 1.000 ug/l
 RT: 3.45 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
98	6.2	2.8	8.4
100	0.0	1.5	4.5

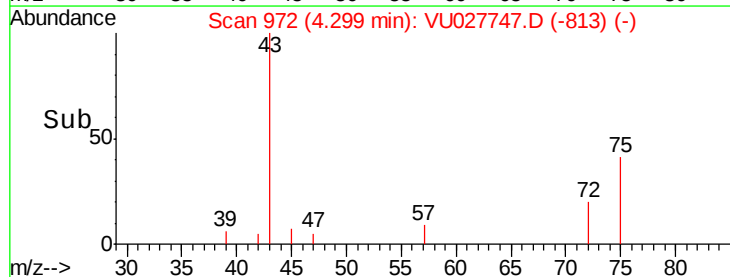
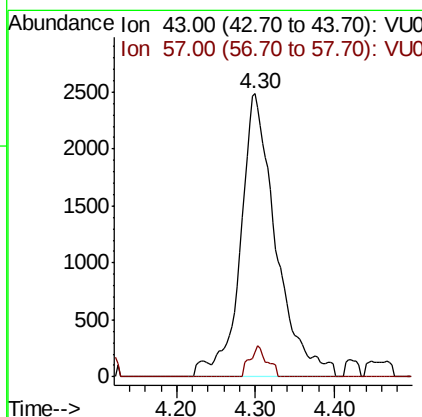
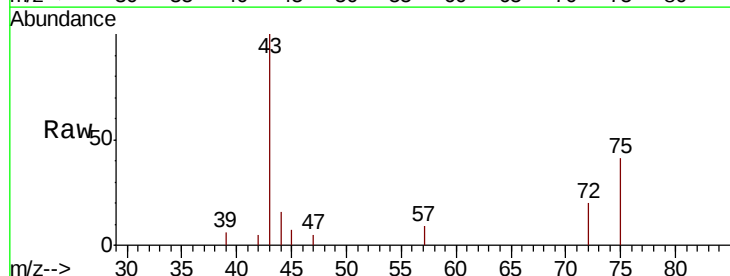
Manual Integrations
 APPROVED

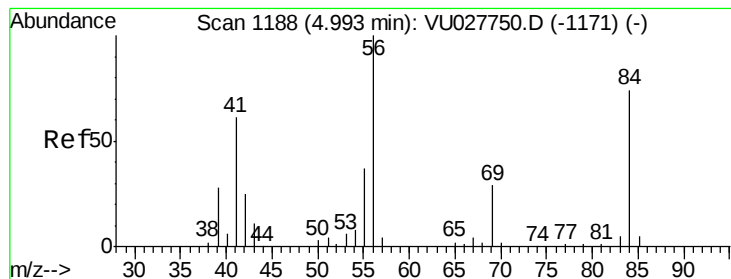
sam
 10/24/2018 2:18:57 PM



#18
 2-Butanone
 Concen: 5.556 ug/l m
 RT: 4.30 min Scan# 972
 Delta R.T. 0.01 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.6	0.0	14.4





#19

Cyclohexane

Concen: 0.917 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

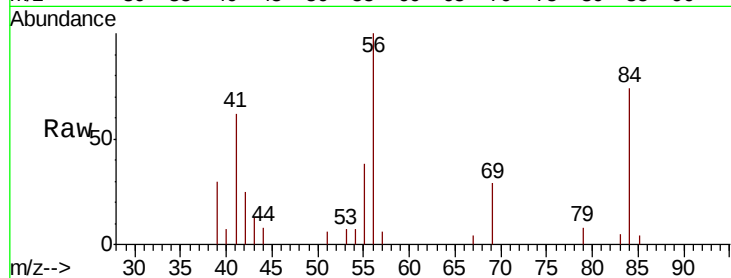
ClientSampleId :

VSTDIC001

Tot Ion:	56	Resp:	6424
Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.9	38.9
84	85.9	65.9	98.9

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM

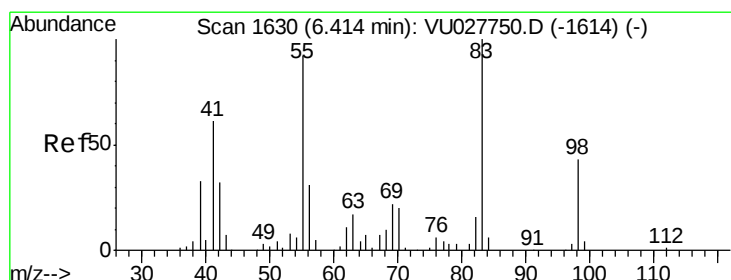
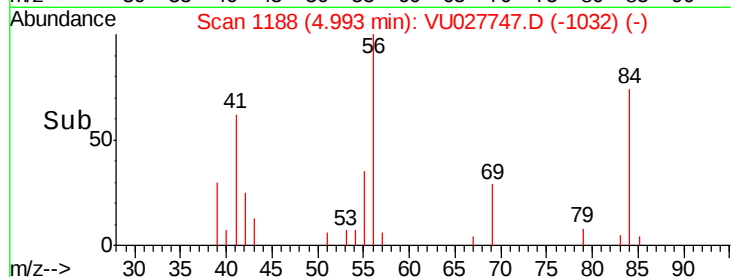
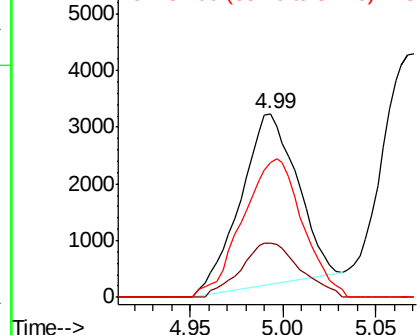


Abundance

Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#20

Methylcyclohexane

Concen: 0.968 ug/l

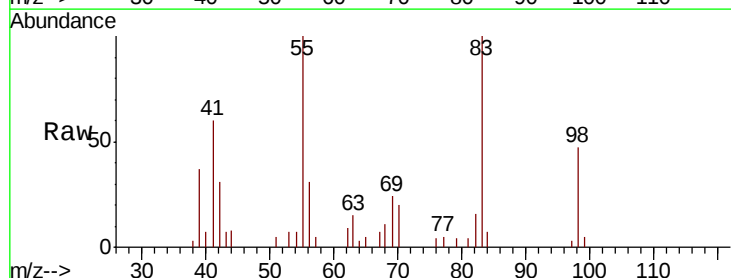
RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Tgt Ion:	83	Resp:	6624
Ion	Ratio	Lower	Upper
83	100		
55	97.2	72.6	108.8
98	45.2	35.0	52.4

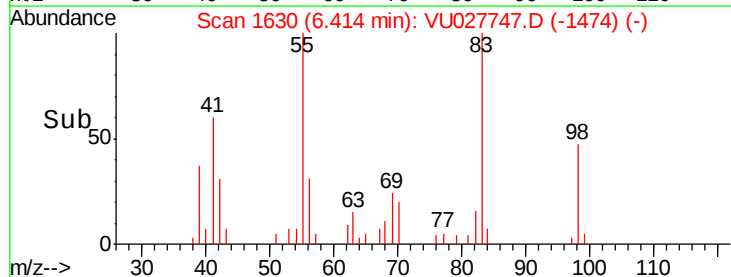
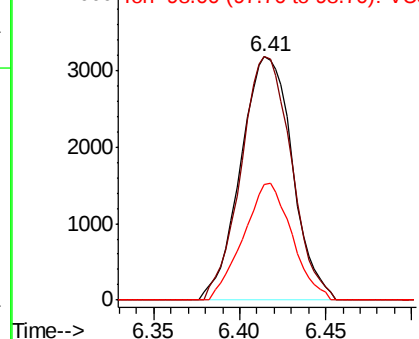


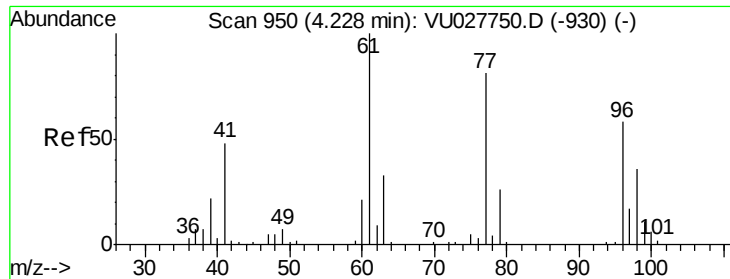
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#21

2,2-Dichloropropane

Concen: 1.037 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 77 Resp: 7032

Ion Ratio Lower Upper

77 100

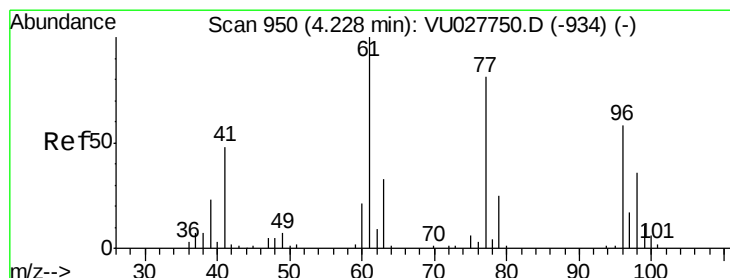
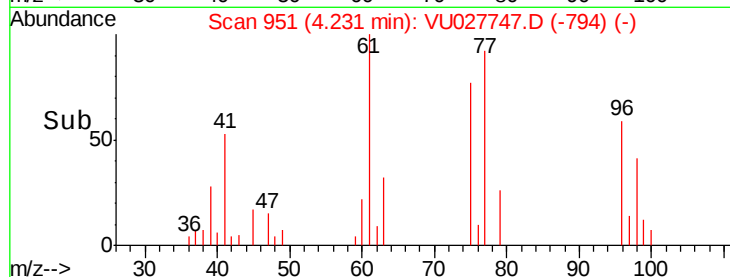
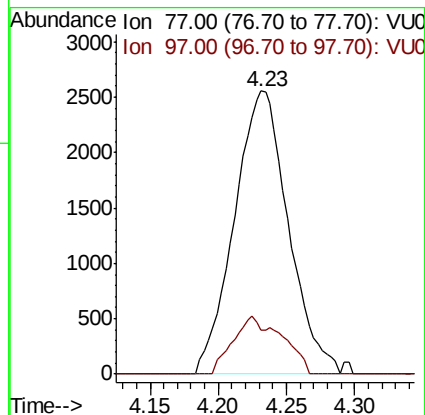
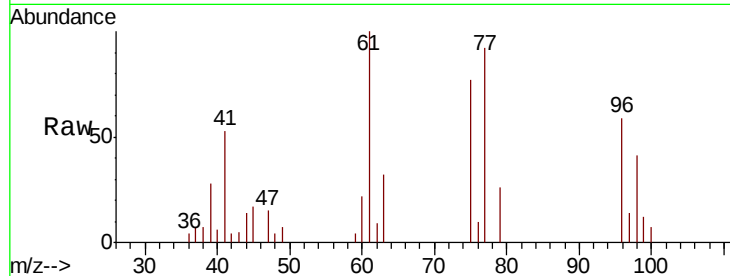
97 18.6 16.9 25.3

Manual Integrations

APPROVED

sam

10/24/2018 2:18:57 PM



#22

cis-1,2-Dichloroethene

Concen: 1.015 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

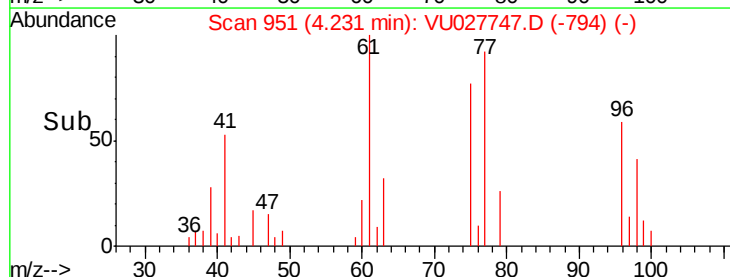
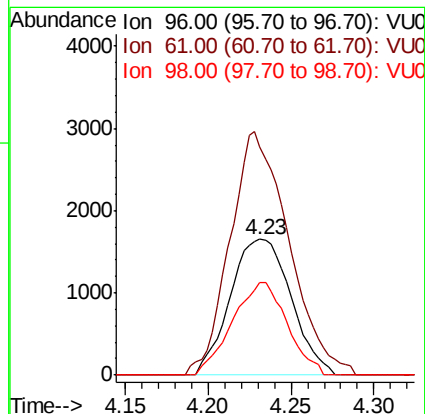
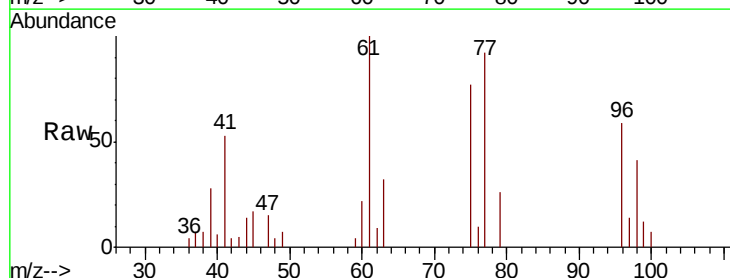
Tgt Ion: 96 Resp: 4226

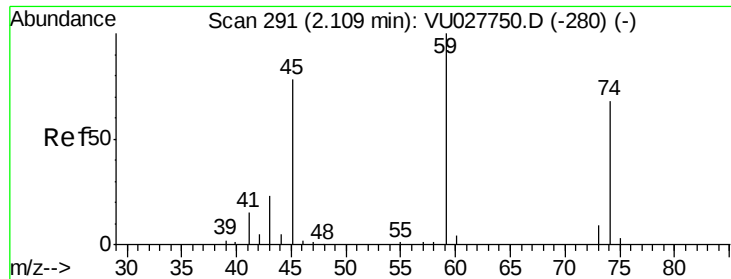
Ion Ratio Lower Upper

96 100

61 173.4 0.0 444.0

98 61.3 31.9 95.5





#23

Diethyl Ether

Concen: 0.978 ug/l

RT: 2.11 min Scan# 291

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

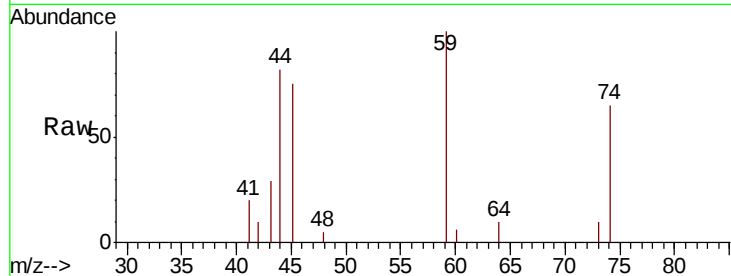
ClientSampleId :

VSTDIC001

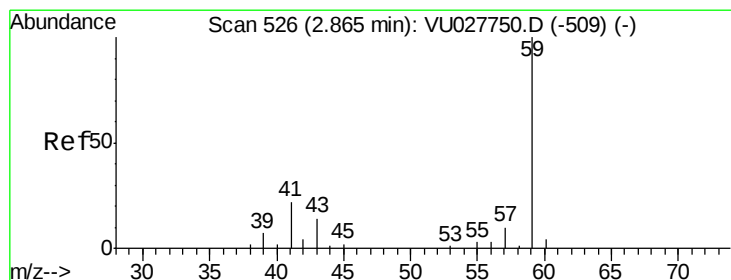
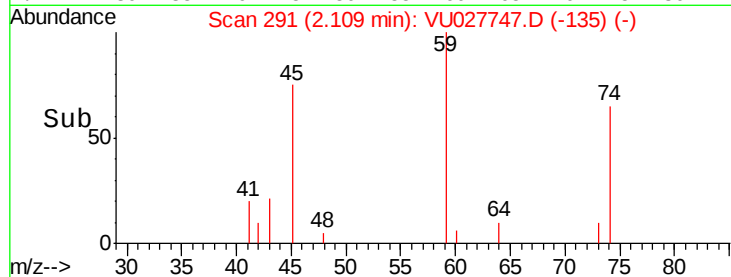
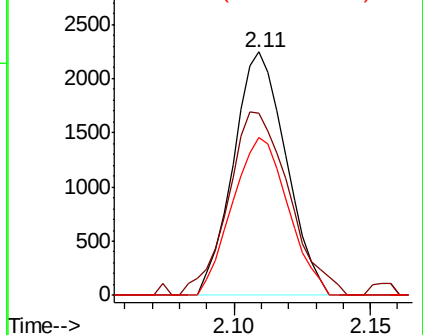
Tot Ion:	59	Resp:	3013
Ion	Ratio	Lower	Upper
59	100		
45	86.7	64.6	96.8
74	68.5	54.8	82.2

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 45.00 (44.70 to 45.70): VU0
Ion 74.00 (73.70 to 74.70): VU0



#24

tert-Butyl Alcohol

Concen: 11.595 ug/l m

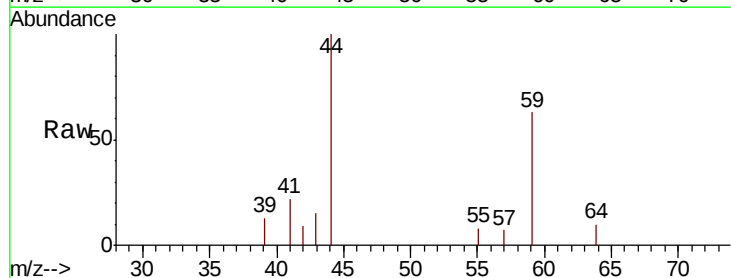
RT: 2.89 min Scan# 533

Delta R.T. 0.02 min

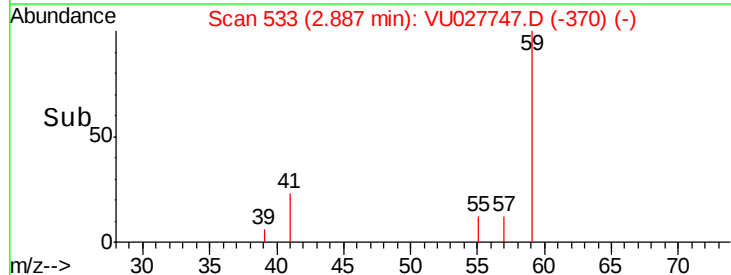
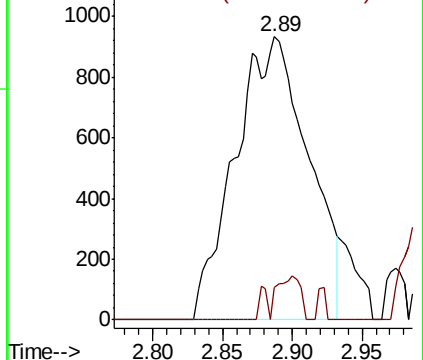
Lab File: VU027747.D

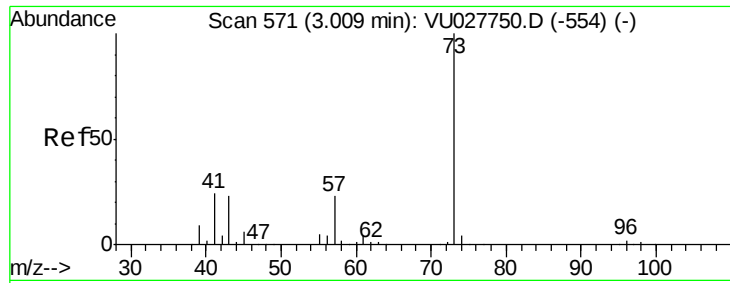
Acq: 22 Oct 2018 18:21

Tgt Ion:	59	Resp:	3421
Ion	Ratio	Lower	Upper
59	100		
57	4.9	4.4	6.6



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





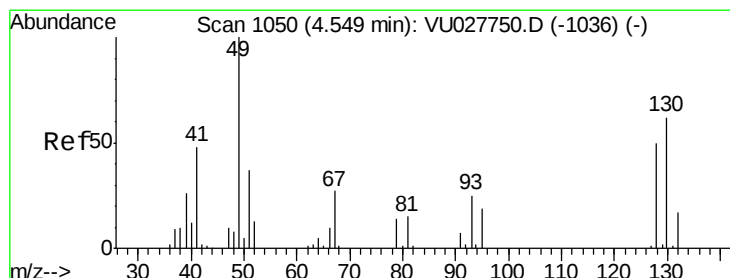
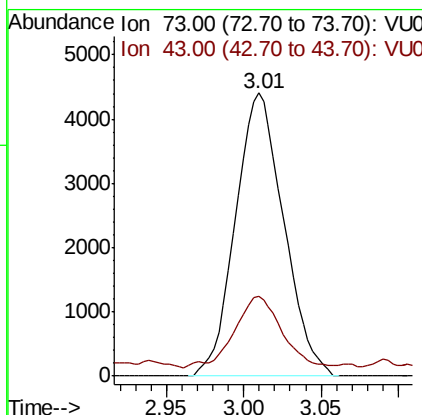
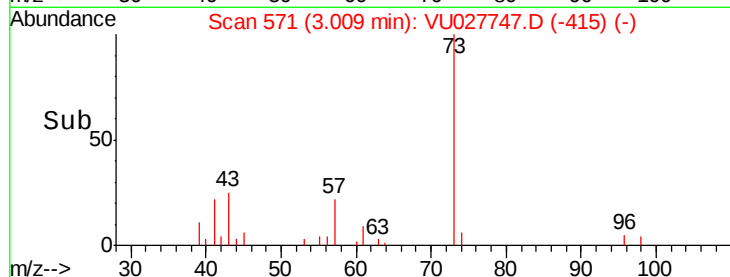
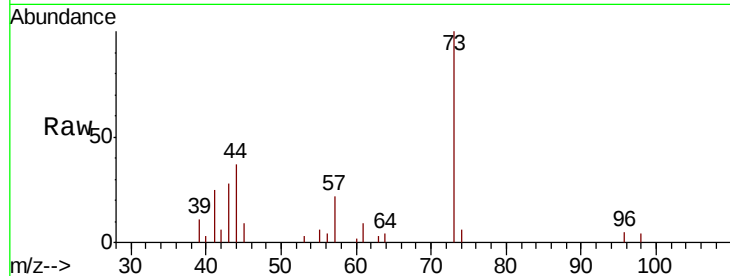
#25
Methvl tert-Butvl Ether
Concen: 0.923 ug/l
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion: 73 Resp: 9549
Ion Ratio Lower Upper
73 100
43 24.4 18.6 27.8

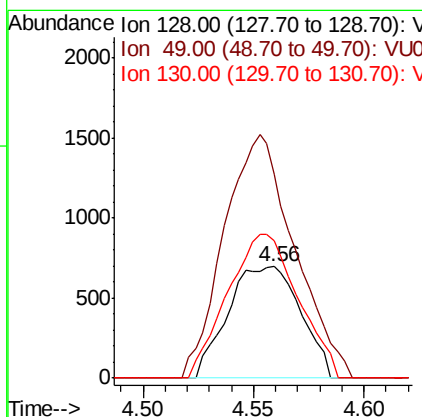
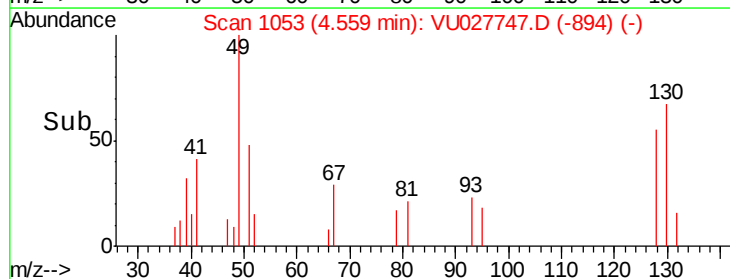
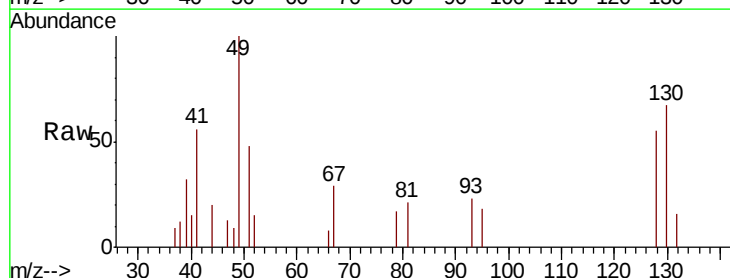
Manual Integrations
APPROVED

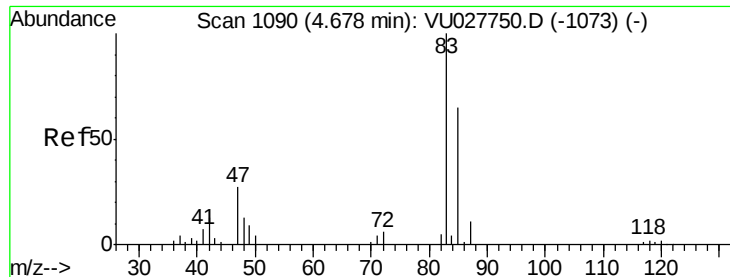
sam
10/24/2018 2:18:57 PM



#26
Bromochloromethane
Concen: 0.940 ug/l
RT: 4.56 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion: 128 Resp: 1584
Ion Ratio Lower Upper
128 100
49 212.2 0.0 427.6
130 125.6 103.4 155.0





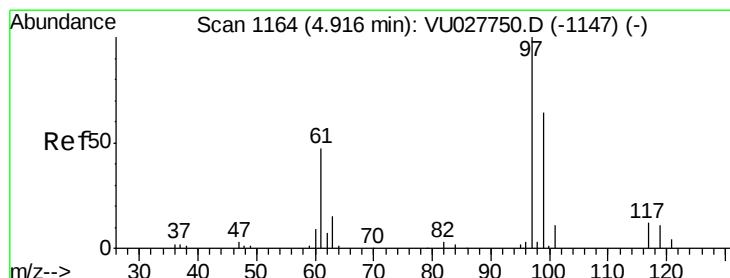
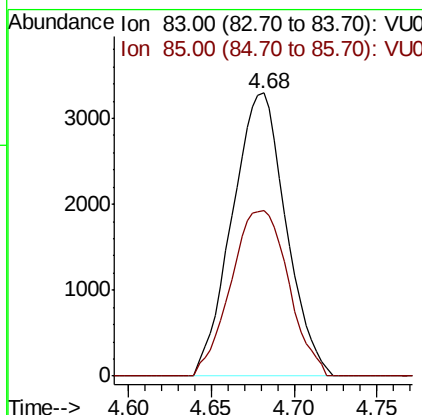
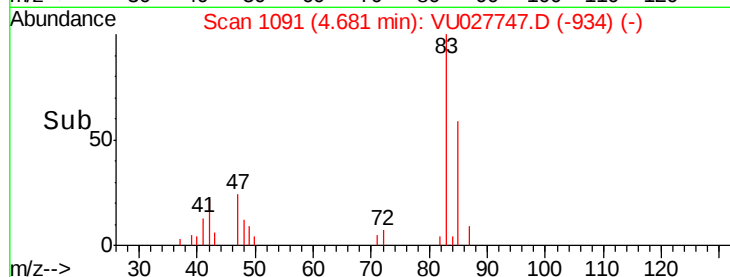
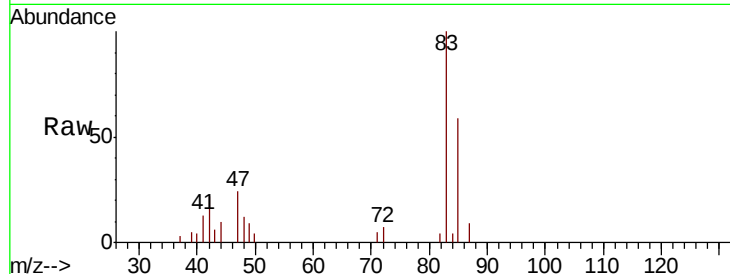
#27
 Chloroform
 Concen: 0.988 ug/l
 RT: 4.68 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	83	Resp	7456
Ion Ratio	100	Lower	Upper
85	58.5	0.0	130.2

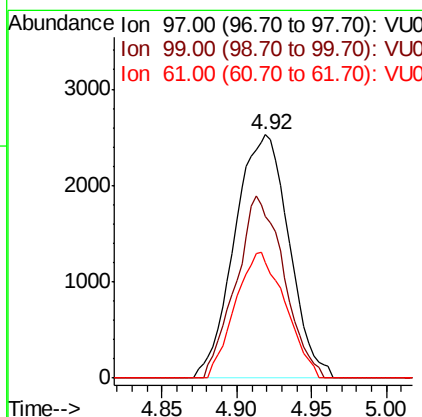
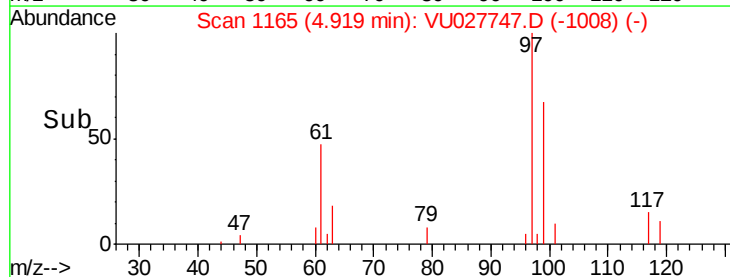
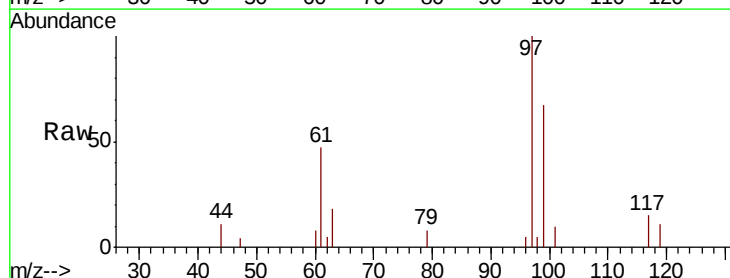
Manual Integrations
 APPROVED

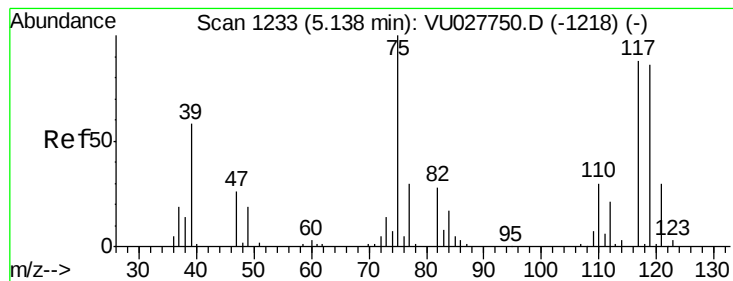
sam
 10/24/2018 2:18:57 PM



#28
 1,1,1-Trichloroethane
 Concen: 0.978 ug/l
 RT: 4.92 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion	97	Resp	6373
Ion Ratio	100	Lower	Upper
99	66.0	31.8	95.4
61	47.5	23.6	70.8





#29

1,1-Dichloropropene

Concen: 0.975 ug/l

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

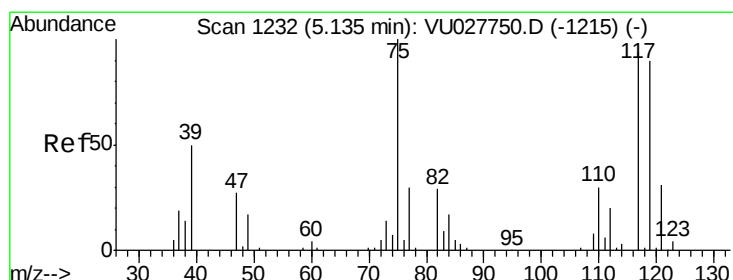
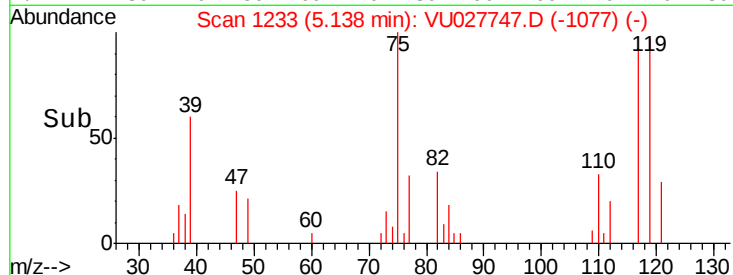
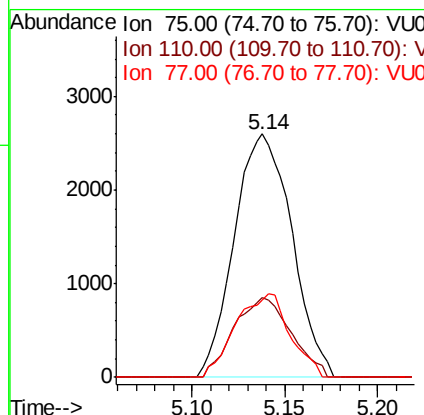
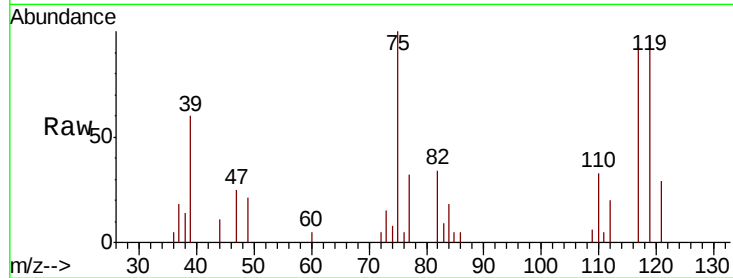
ClientSampleId :

VSTDIC001

Tot Ion:	75	Resp:	5594
Ion	Ratio	Lower	Upper
75	100		
110	32.6	15.6	46.8
77	32.3	24.5	36.7

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM



#30

Carbon Tetrachloride

Concen: 0.991 ug/l

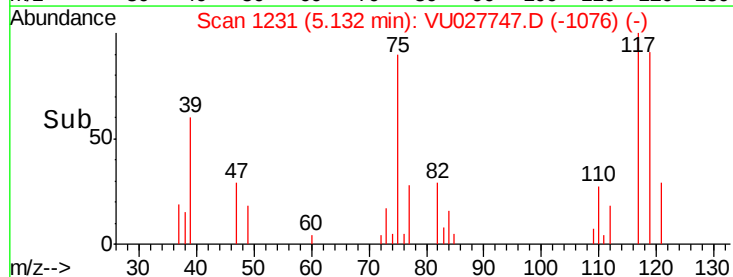
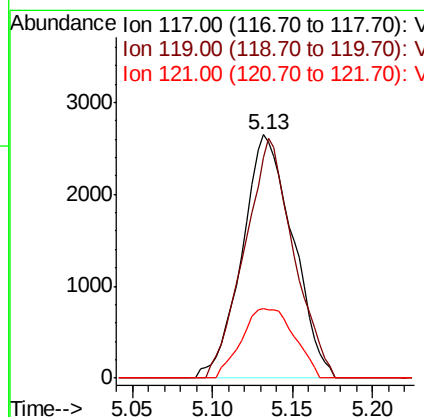
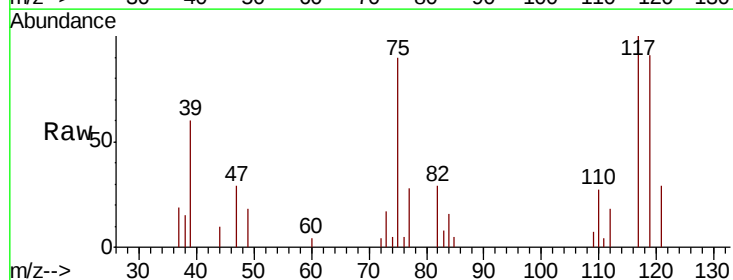
RT: 5.13 min Scan# 1231

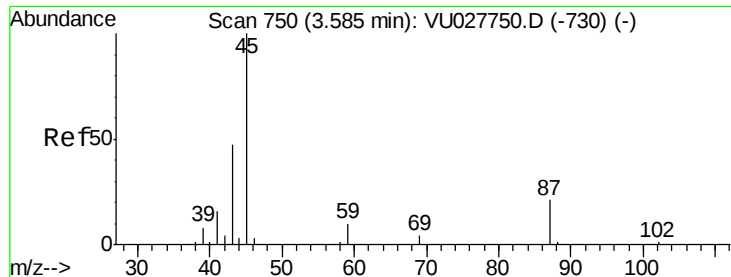
Delta R.T. -0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Tgt Ion:	117	Resp:	5754
Ion	Ratio	Lower	Upper
117	100		
119	90.8	76.2	114.4
121	28.8	26.4	39.6





#31

Isopropyl Ether

Concen: 0.938 ug/l

RT: 3.58 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 13480

Ion Ratio Lower Upper

45 100

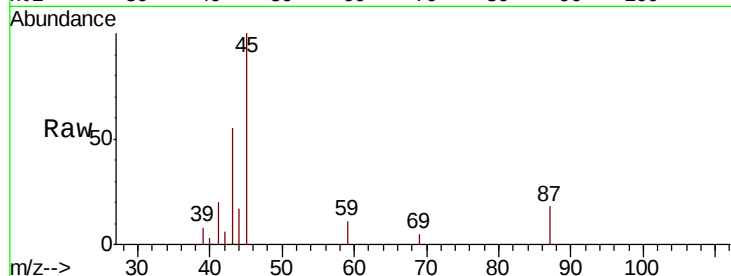
43 54.1 24.5 73.5

Manual Integrations

APPROVED

sam

10/24/2018 2:18:57 PM



Abundance Ion 45.00 (44.70 to 45.70): VU027750.D (-730) (-)

Ion 43.00 (42.70 to 43.70): VU027750.D (-730) (-)

3.58

6000

5000

4000

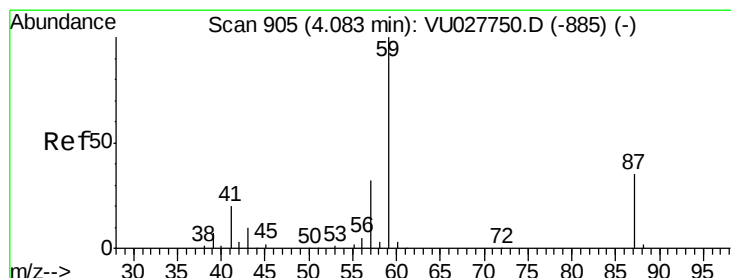
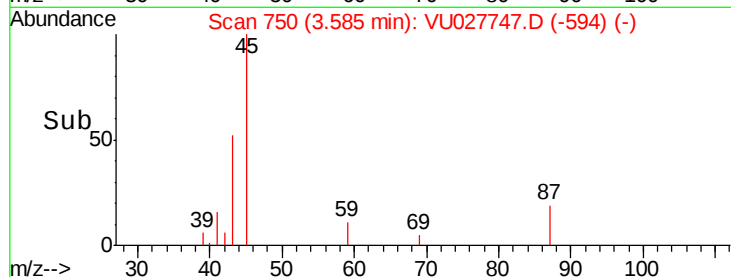
3000

2000

1000

0

Time-->



#32

Ethyl-t-butyl ether

Concen: 0.948 ug/l

RT: 4.08 min Scan# 905

Delta R.T. 0.00 min

Lab File: VU027747.D

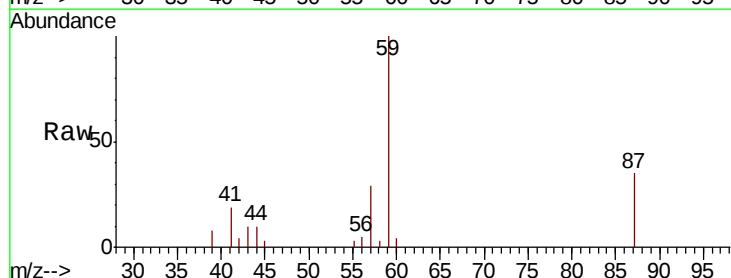
Acq: 22 Oct 2018 18:21

Tgt Ion: 59 Resp: 12023

Ion Ratio Lower Upper

59 100

87 33.5 29.4 44.0



Abundance Ion 59.00 (58.70 to 59.70): VU027750.D (-885) (-)

Ion 87.00 (86.70 to 87.70): VU027750.D (-885) (-)

4.08

5000

4000

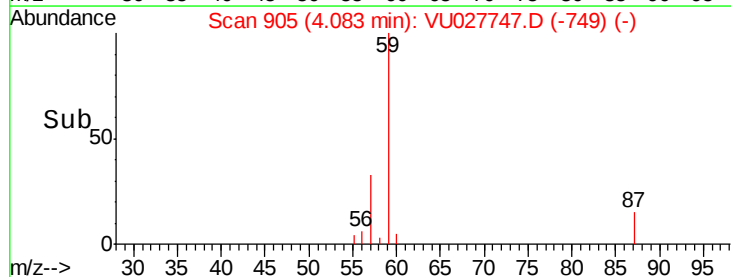
3000

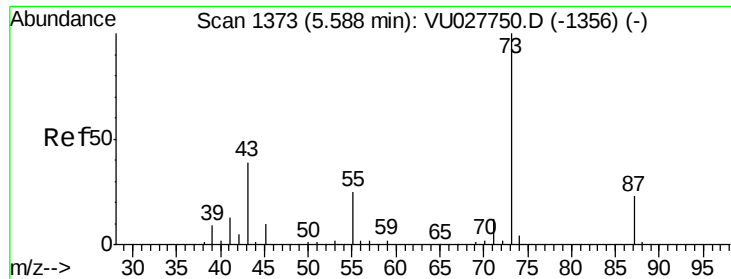
2000

1000

0

Time-->





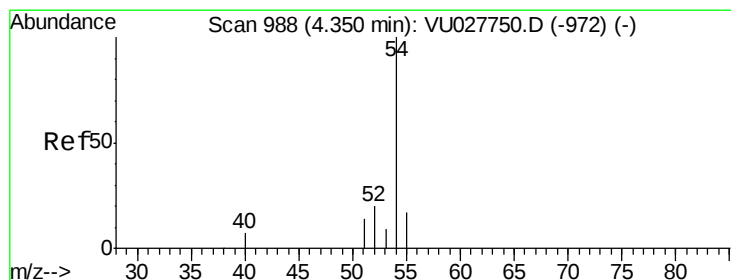
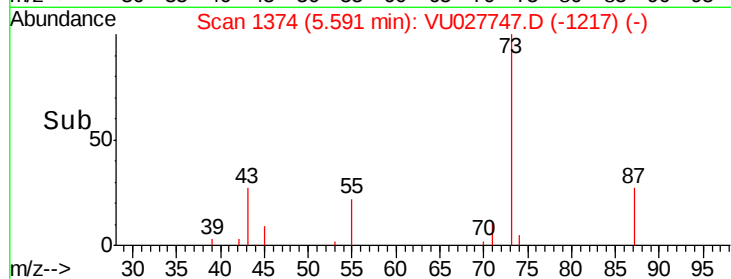
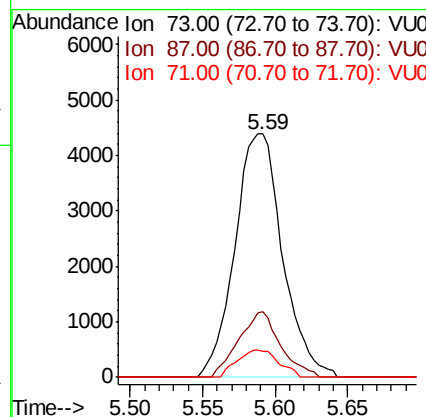
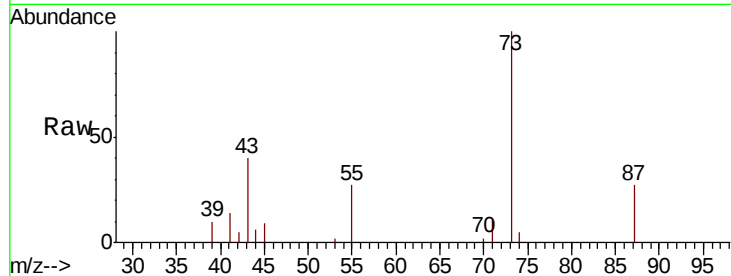
#33
Tert-Amvl methvl ether
Concen: 0.942 ug/l
RT: 5.59 min Scan# 1374
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
73	100		
87	23.7	18.5	27.7
71	9.8	9.1	13.7

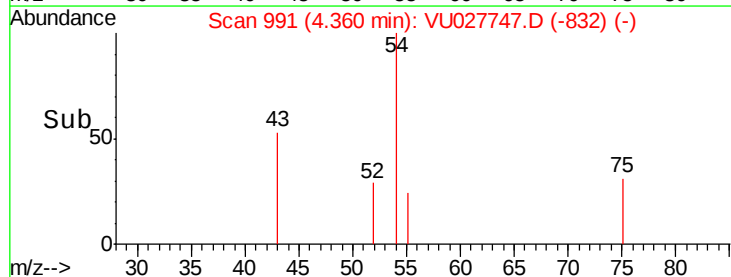
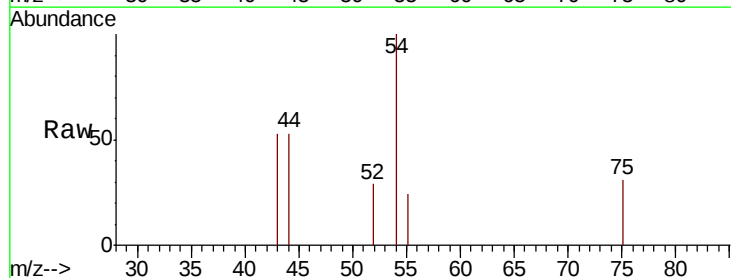
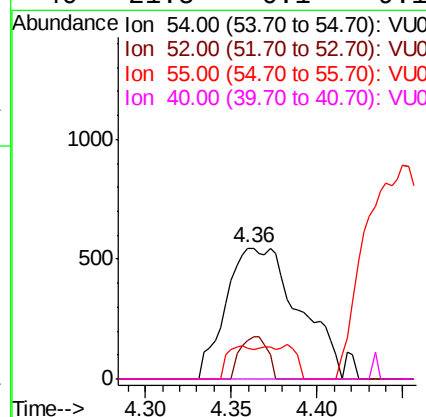
Manual Integrations
APPROVED

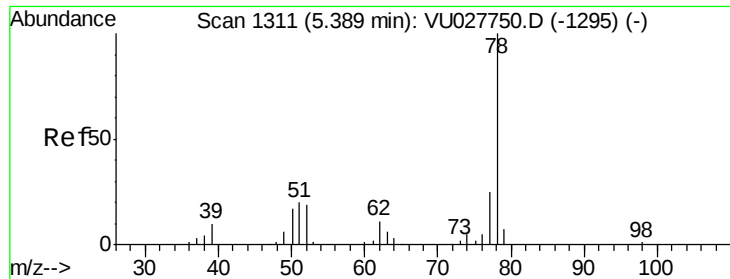
sam
10/24/2018 2:18:57 PM



#34
Propionitrile
Concen: 4.278 ug/l
RT: 4.36 min Scan# 991
Delta R.T. 0.01 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
54	100		
52	12.0	15.5	23.3#
55	8.9	12.6	18.8#
40	21.5	6.1	9.1#





#35

Benzene

Concen: 0.976 ug/l

RT: 5.40 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 78 Resp: 15759

Ion Ratio Lower Upper

78 100

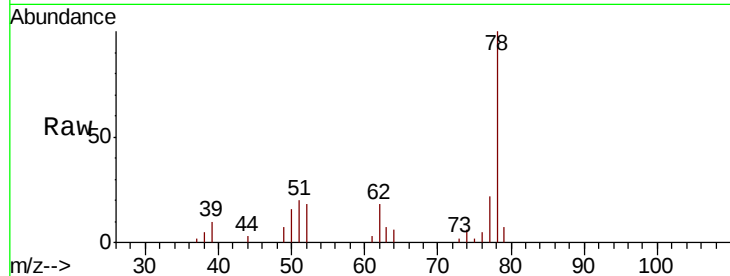
77 21.7 19.9 29.9

Manual Integrations

APPROVED

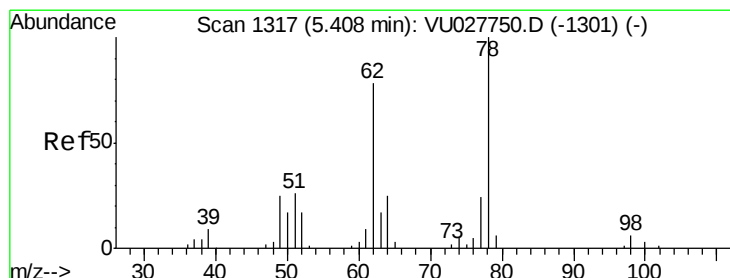
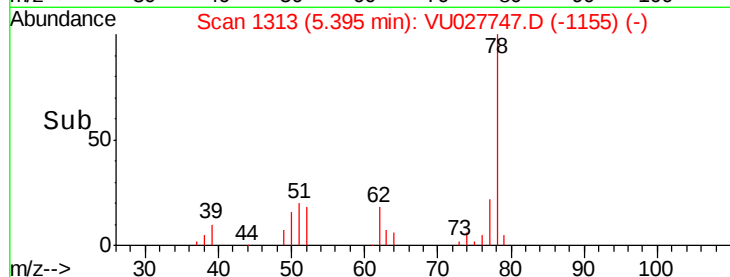
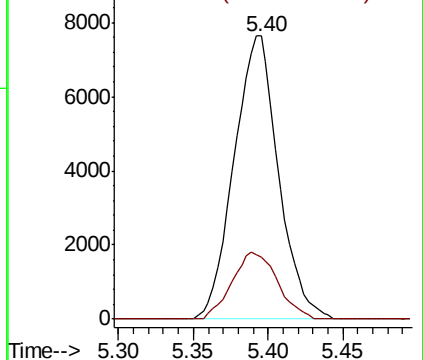
sam

10/24/2018 2:18:57 PM



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0



#36

1,2-Dichloroethane

Concen: 1.060 ug/l

RT: 5.41 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VU027747.D

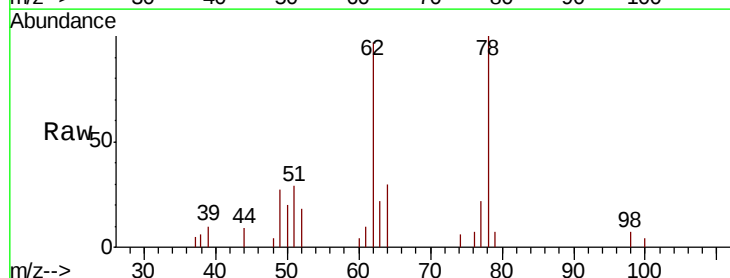
Acq: 22 Oct 2018 18:21

Tgt Ion: 62 Resp: 5458

Ion Ratio Lower Upper

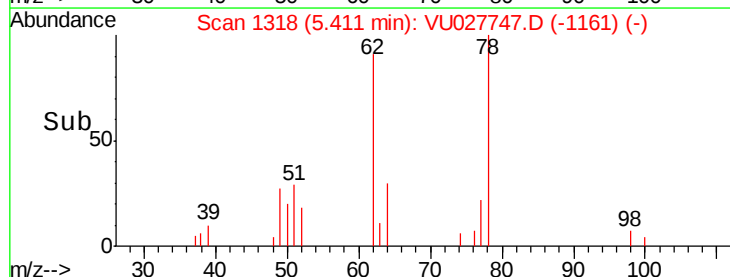
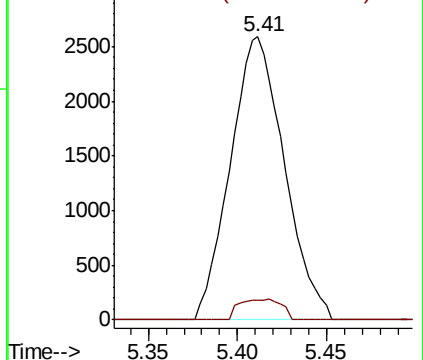
62 100

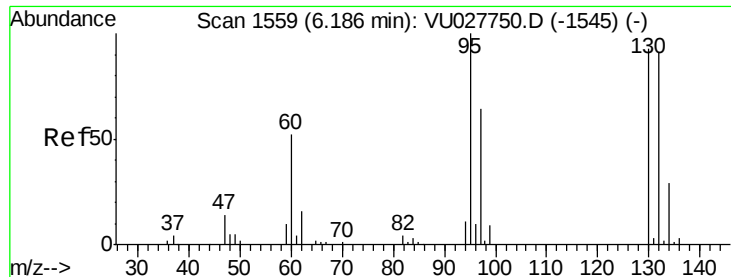
98 5.8 5.8 8.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





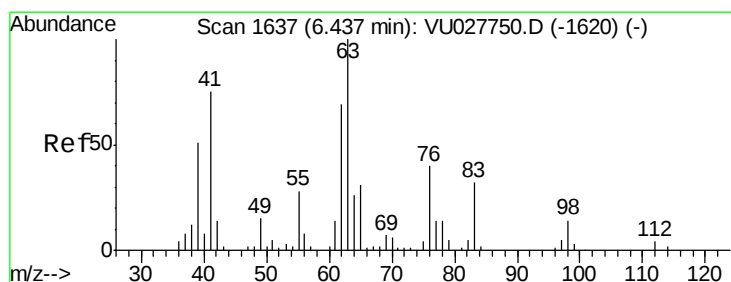
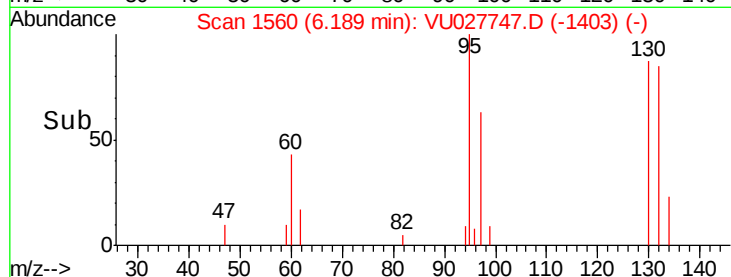
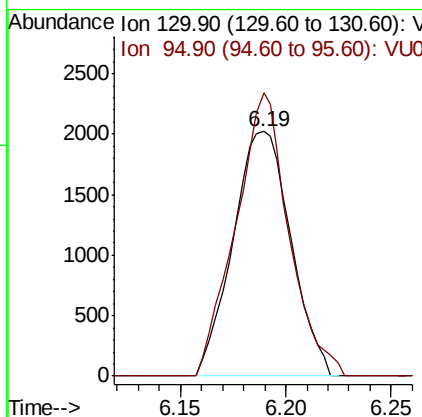
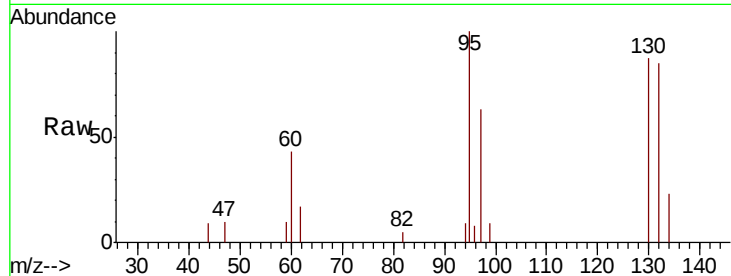
#37
 Trichloroethene
 Concen: 0.972 ug/l
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion:130 Resp: 3865
 Ion Ratio Lower Upper
 130 100
 95 115.6 86.4 129.6

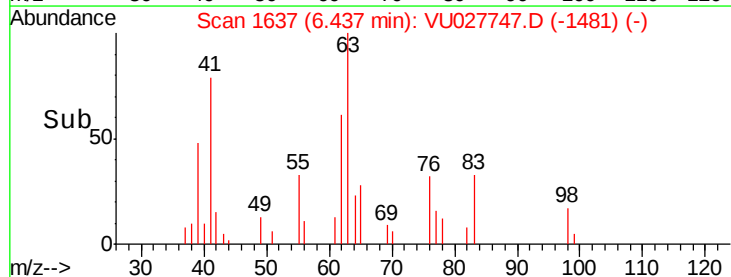
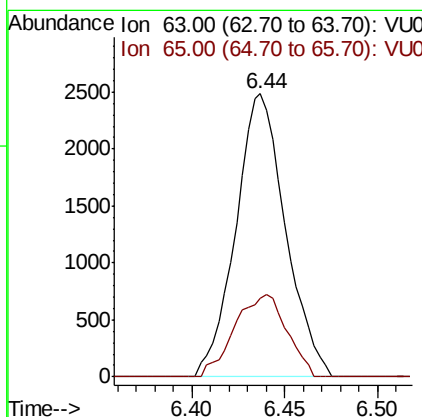
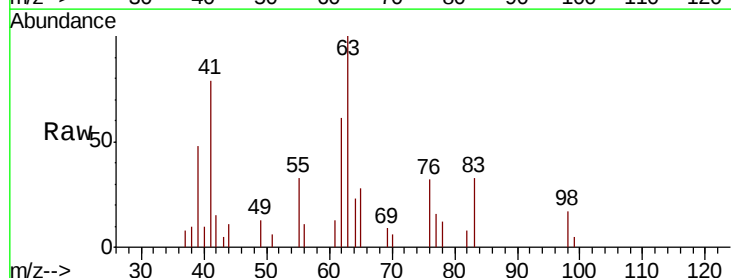
Manual Integrations
 APPROVED

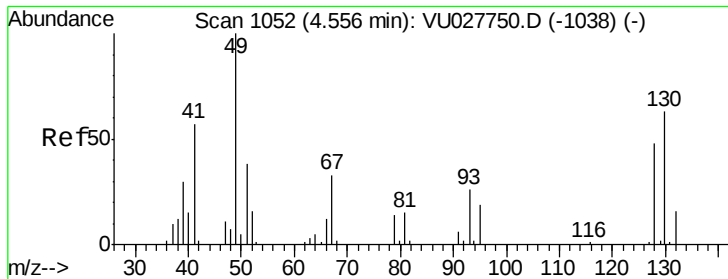
sam
 10/24/2018 2:18:57 PM



#38
 1,2-Dichloropropane
 Concen: 1.015 ug/l
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion: 63 Resp: 4624
 Ion Ratio Lower Upper
 63 100
 65 27.5 24.9 37.3





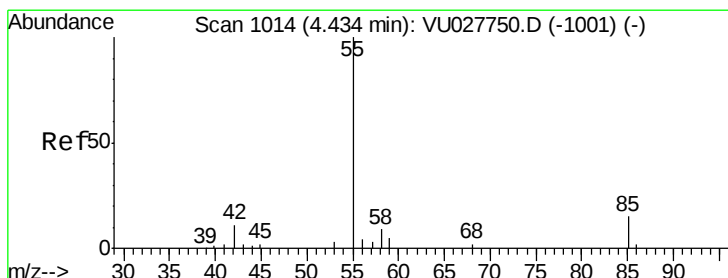
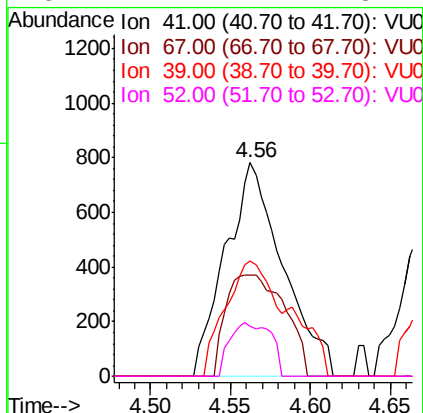
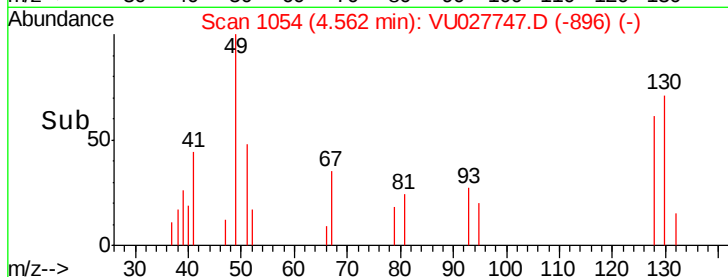
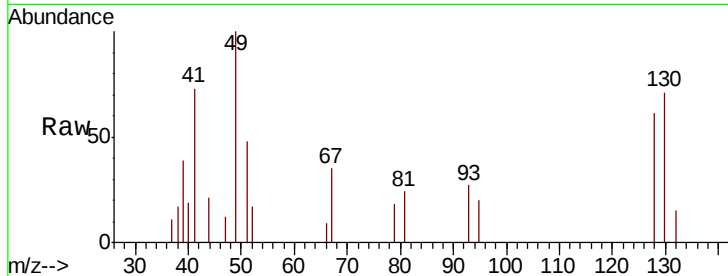
#39
Methacrylonitrile
Concen: 1.034 ug/l
RT: 4.56 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
67	48.2	46.1	69.1
39	44.5	43.6	65.4
52	17.7	21.4	32.2#

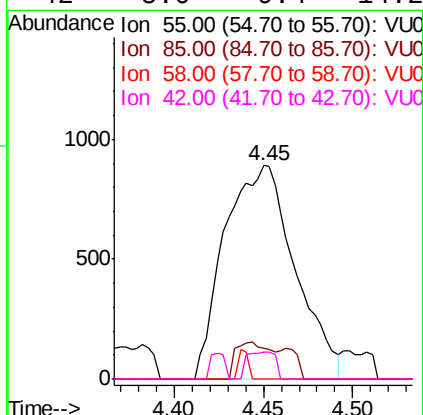
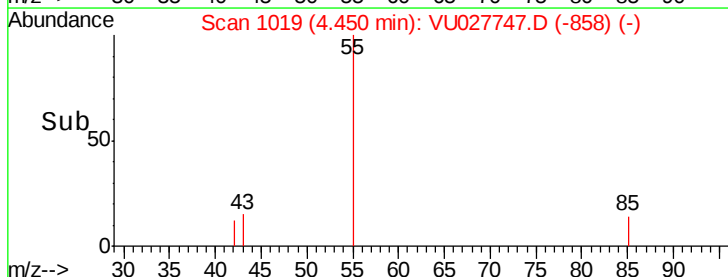
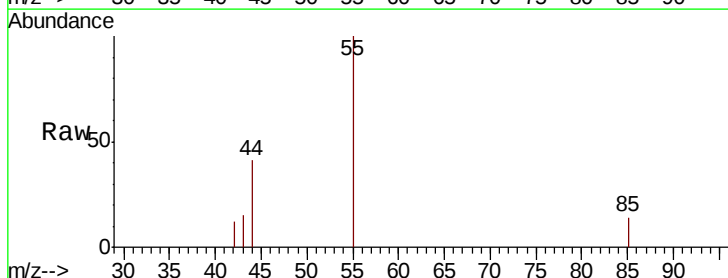
Manual Integrations
APPROVED

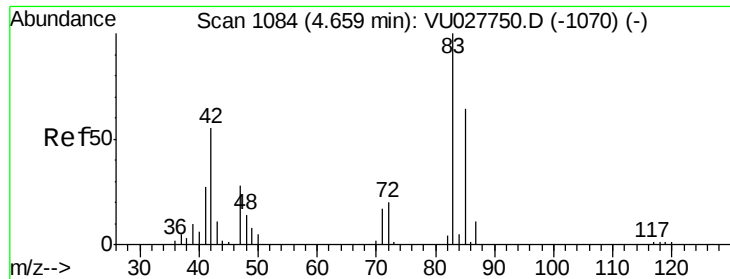
sam
10/24/2018 2:18:57 PM



#40
Methyl acrylate
Concen: 0.968 ug/l
RT: 4.45 min Scan# 1019
Delta R.T. 0.02 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
55	100		
85	8.4	11.8	17.6#
58	1.9	7.0	10.4#
42	5.0	9.4	14.2#





#41

Tetrahydrofuran

Concen: 2.124 ug/l

RT: 4.68 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

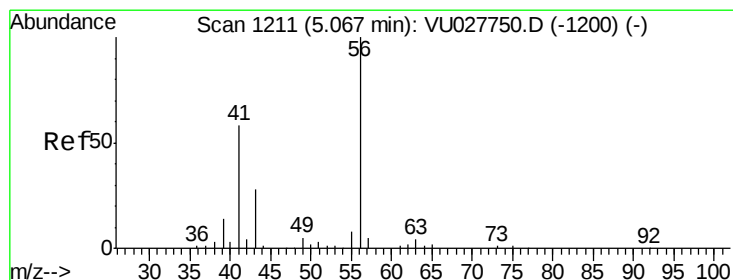
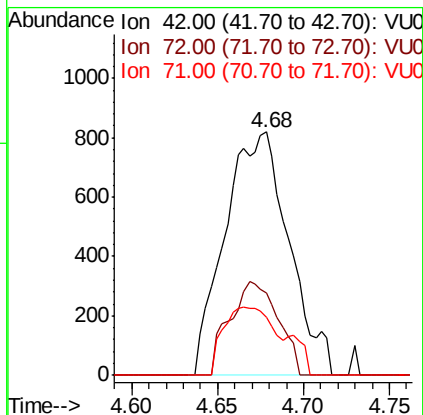
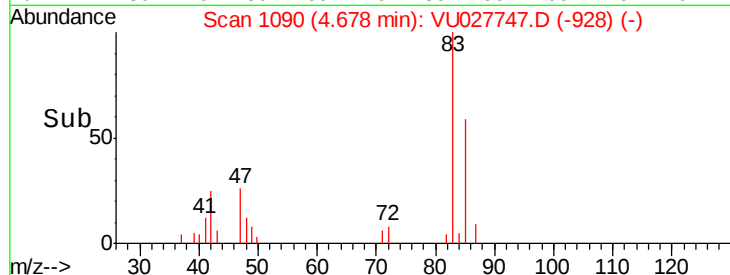
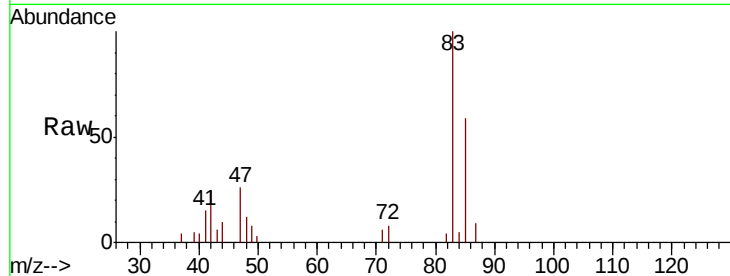
ClientSampleId :

VSTDIC001

Tot Ion:	42	Resp:	2125
Ion	Ratio	Lower	Upper
42	100		
72	29.1	30.6	45.8#
71	21.8	25.2	37.8#

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM



#42

1-Chlorobutane

Concen: 1.052 ug/l

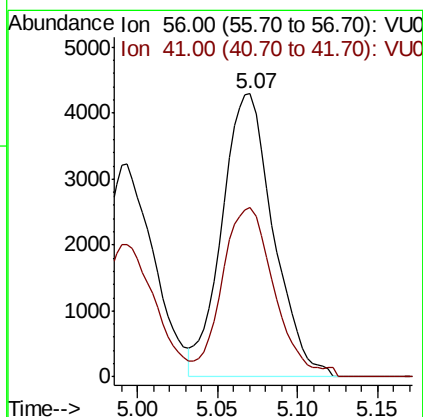
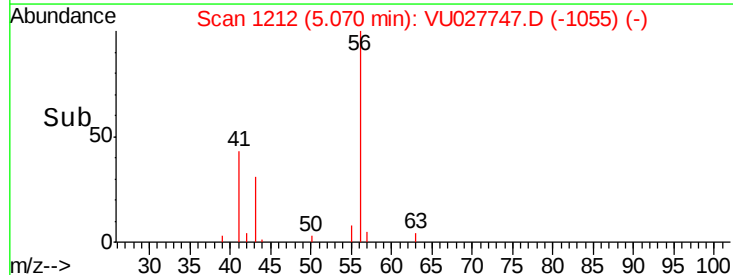
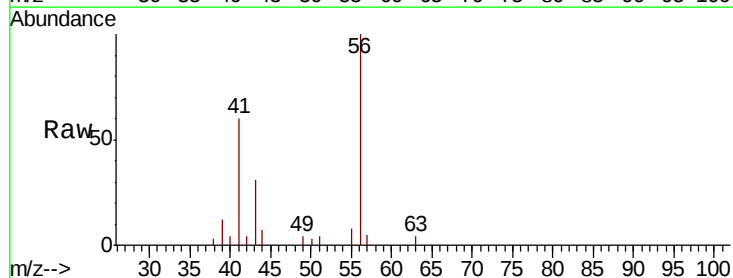
RT: 5.07 min Scan# 1212

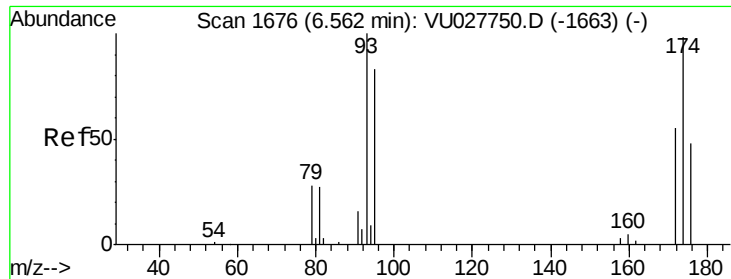
Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Tgt Ion:	56	Resp:	9451
Ion	Ratio	Lower	Upper
56	100		
41	60.3	29.4	88.2





#43

Dibromomethane

Concen: 0.964 ug/l

RT: 6.56 min Scan# 1676

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

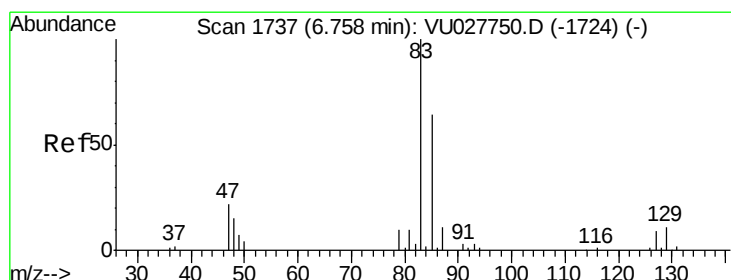
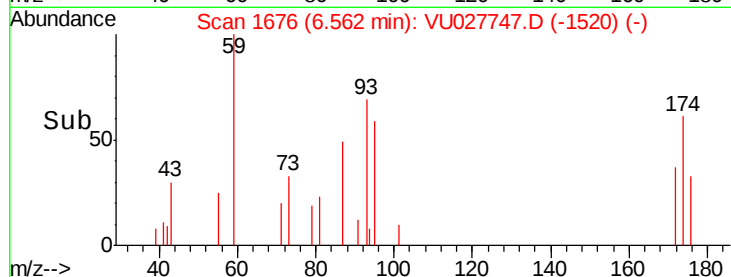
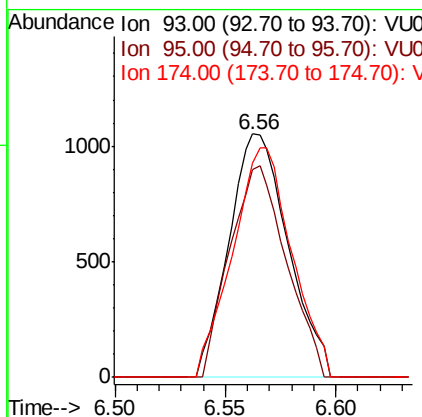
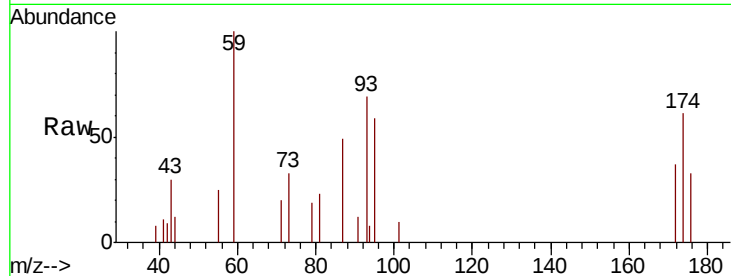
ClientSampleId :

VSTDIC001

Tot Ion:	93	Resp:	1956
Ion	Ratio	Lower	Upper
93	100		
95	83.1	64.2	96.2
174	94.3	76.7	115.1

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM



#44

Bromodichloromethane

Concen: 0.985 ug/l

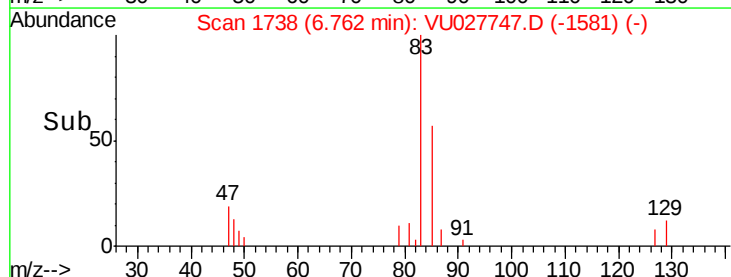
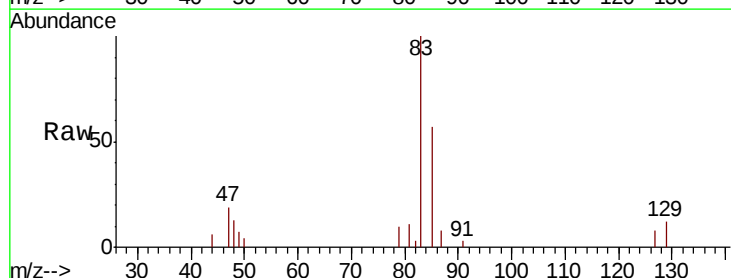
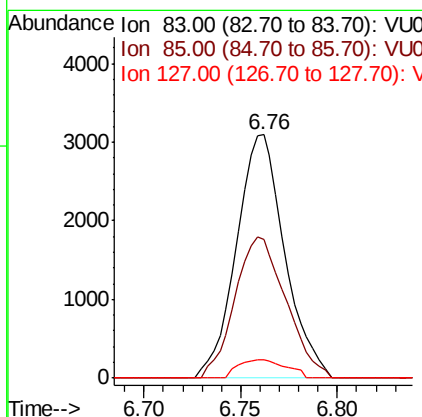
RT: 6.76 min Scan# 1738

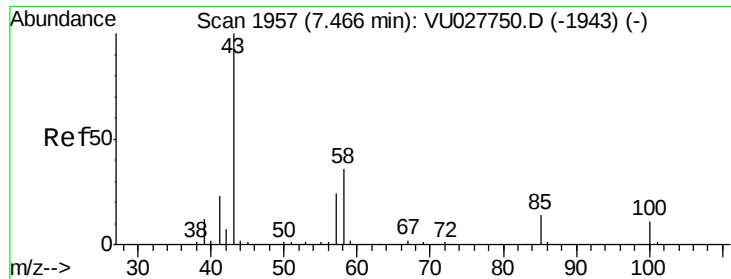
Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Tgt Ion:	83	Resp:	5369
Ion	Ratio	Lower	Upper
83	100		
85	56.8	51.5	77.3
127	7.8	7.0	10.4





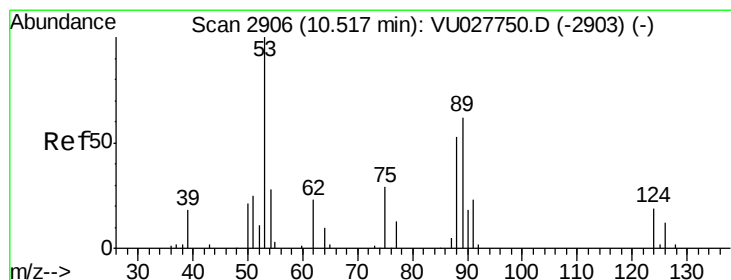
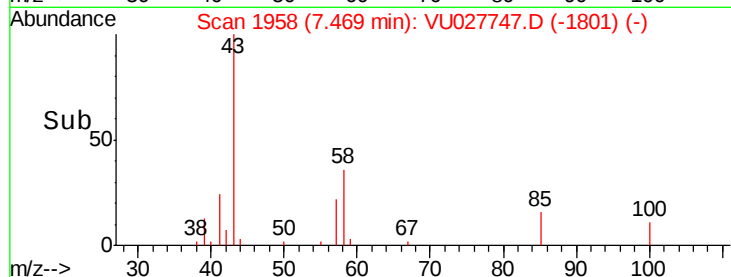
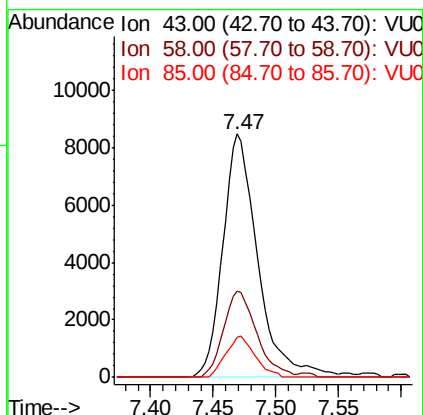
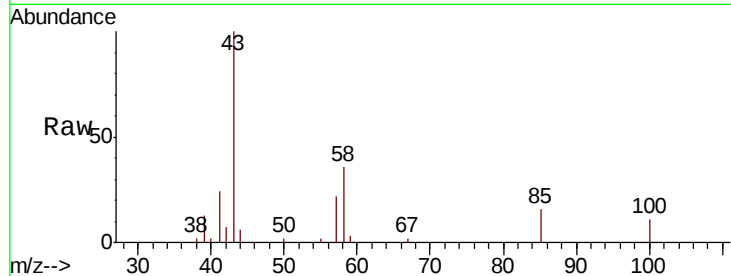
#45
4-Methyl-2-Pentanone
Concen: 4.771 ug/l
RT: 7.47 min Scan# 1958
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	33.5	17.9	53.8
85	14.0	11.4	17.0

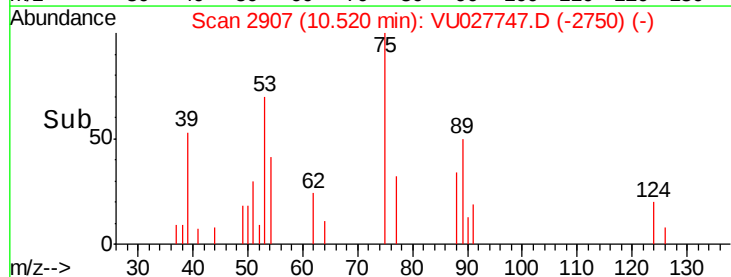
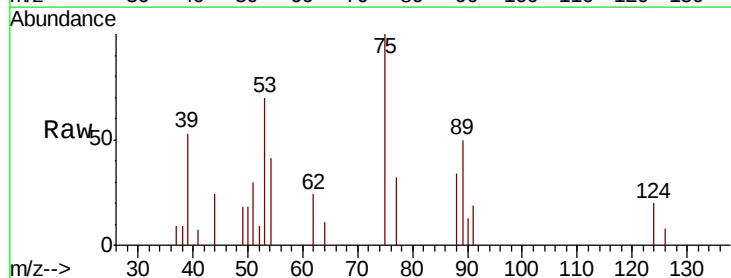
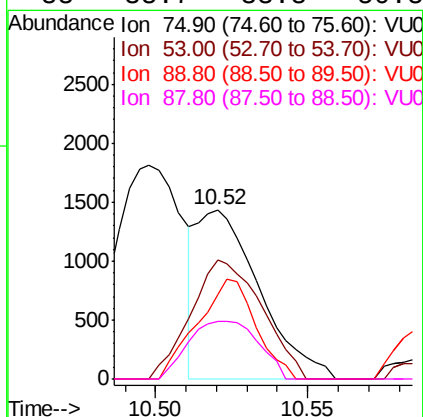
Manual Integrations
APPROVED

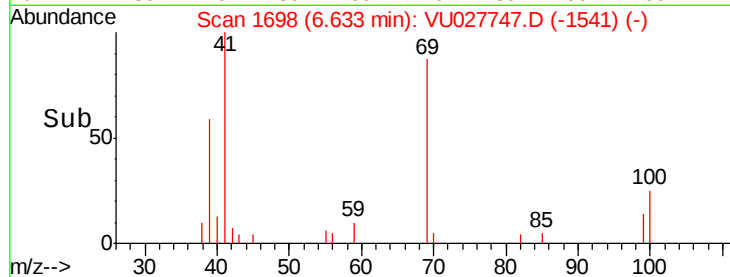
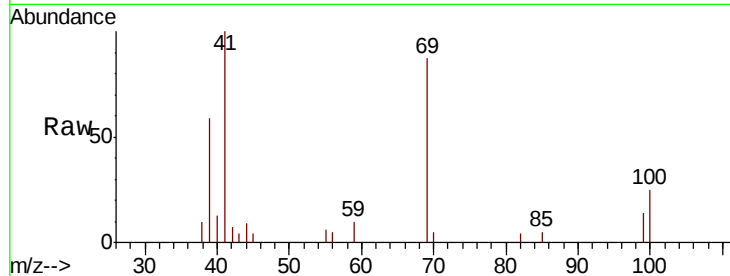
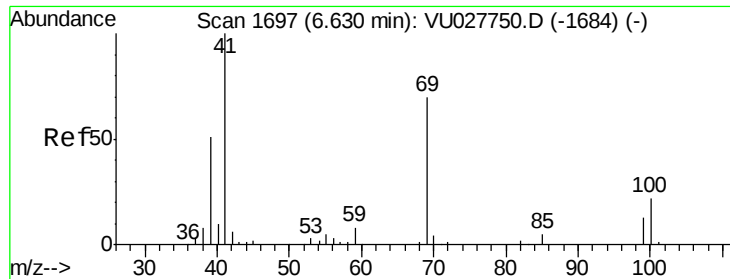
sam
10/24/2018 2:18:57 PM



#46
t-1,4-Dichloro-2-butene
Concen: 1.614 ug/l m
RT: 10.52 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
75	100		
53	80.2	68.2	102.4
89	55.3	41.8	62.6
88	38.7	33.8	50.8





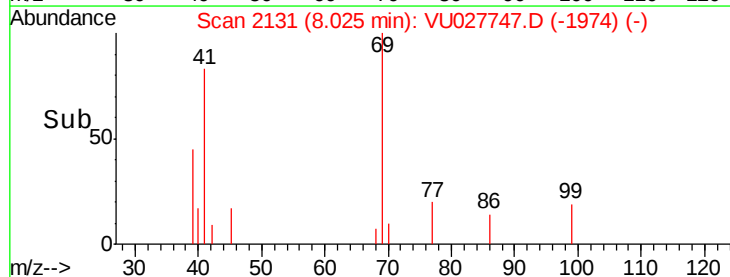
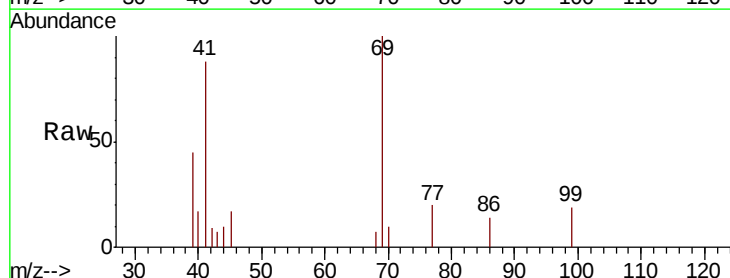
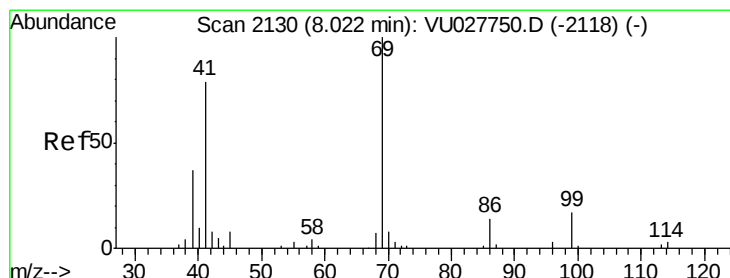
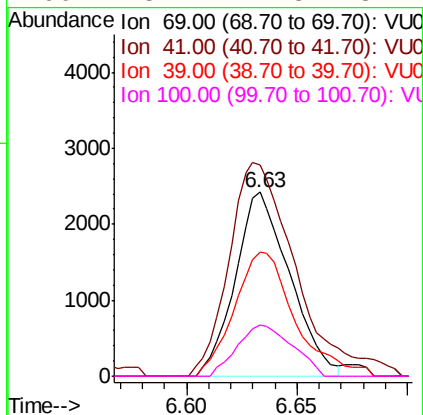
#47
Methyl methacrylate
Concen: 1.850 ug/l
RT: 6.63 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	142.3	0.0	281.2	
39	75.0	58.6	88.0	
100	28.1	24.8	37.2	

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

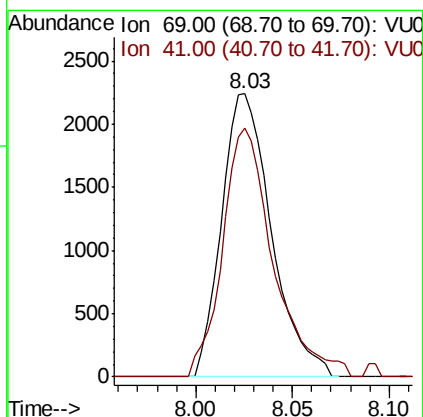
Manual Integrations
APPROVED

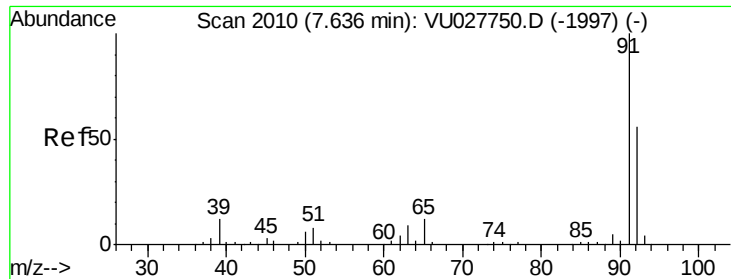
sam
10/24/2018 2:18:57 PM



#48
Ethyl methacrylate
Concen: 0.836 ug/l
RT: 8.03 min Scan# 2131
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	88.8	39.1	117.2	





#49

Toluene

Concen: 0.938 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 92 Resp: 9171

Ion Ratio Lower Upper

92 100

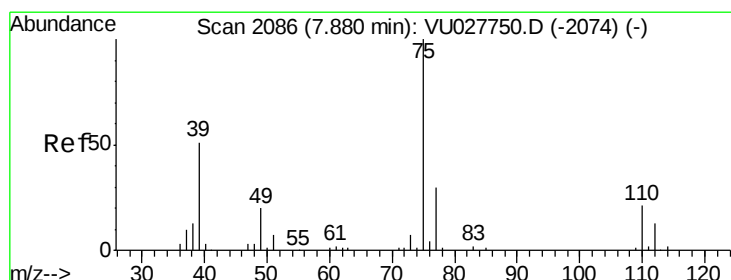
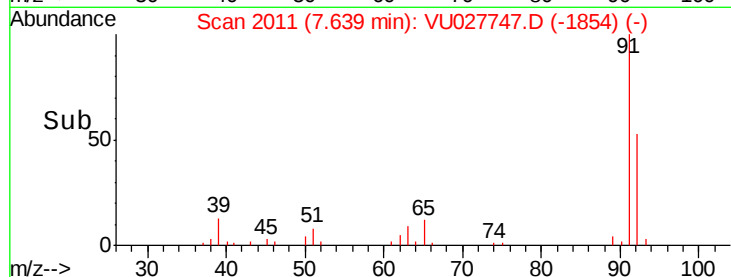
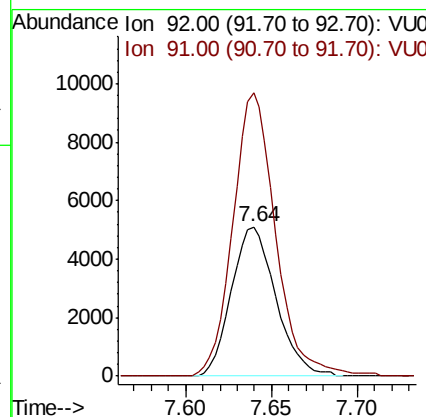
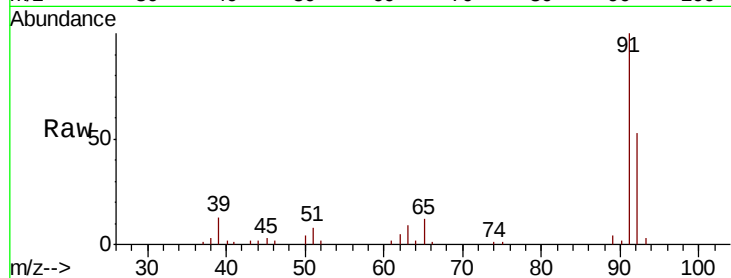
91 182.2 141.8 212.8

Manual Integrations

APPROVED

sam

10/24/2018 2:18:57 PM



#50

t-1,3-Dichloropropene

Concen: 0.947 ug/l

RT: 7.89 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VU027747.D

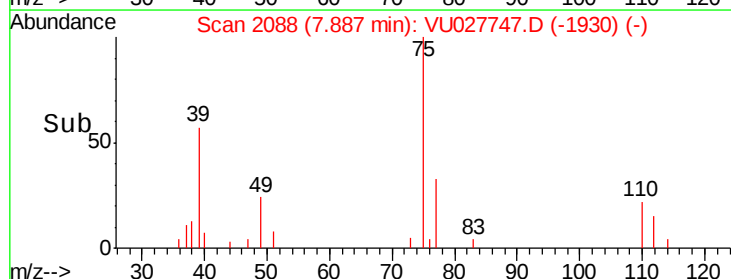
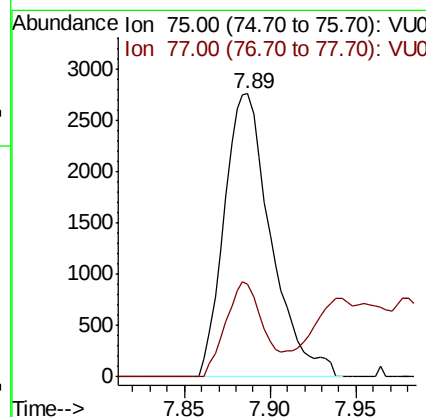
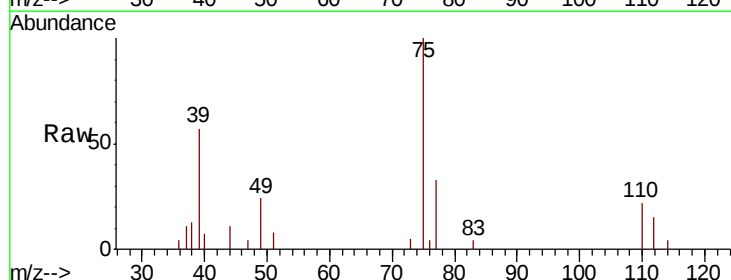
Acq: 22 Oct 2018 18:21

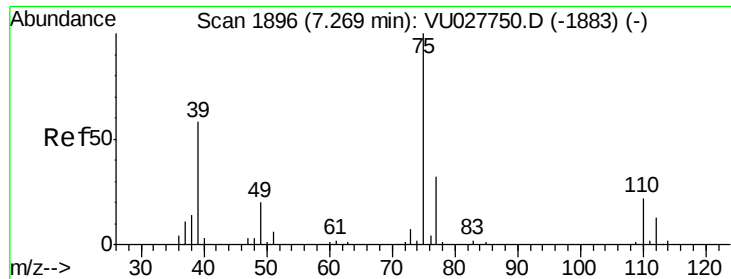
Tgt Ion: 75 Resp: 5246

Ion Ratio Lower Upper

75 100

77 32.8 24.1 36.1





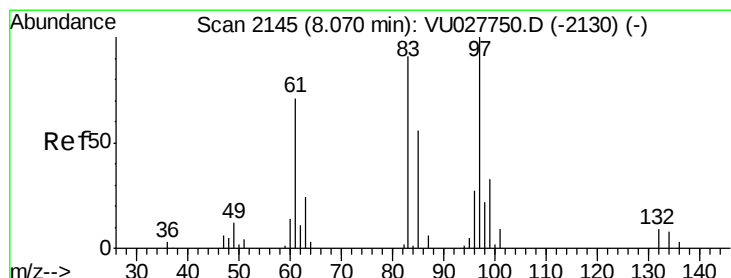
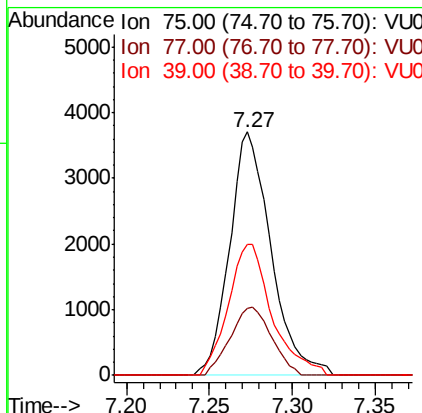
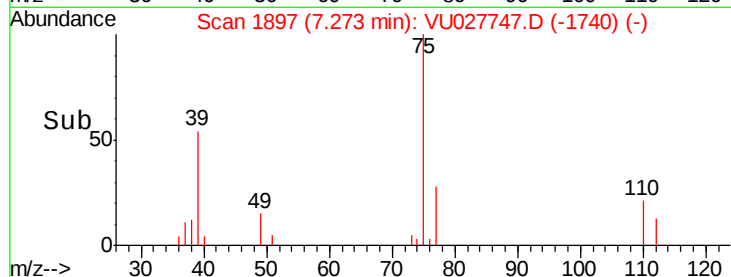
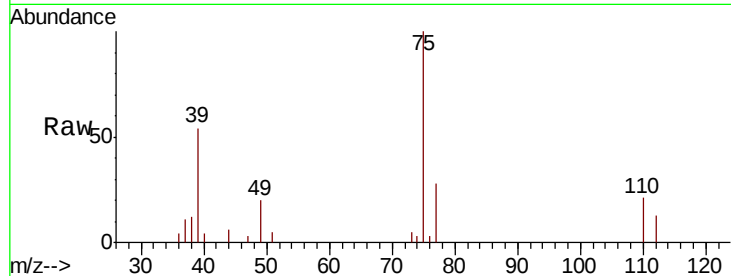
#51
 cis-1,3-Dichloropropene
 Concen: 0.980 ug/l
 RT: 7.27 min Scan# 1897
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion:	75	Resp:	6436
Ion	Ratio	Lower	Upper
75	100		
77	27.5	25.3	37.9
39	54.0	46.4	69.6

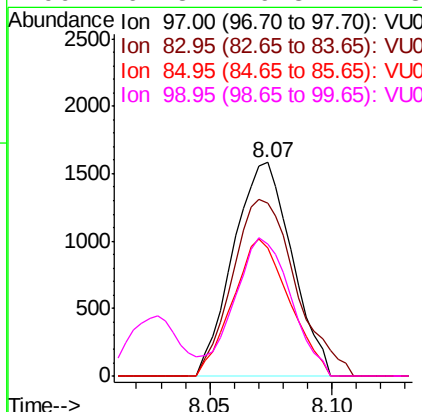
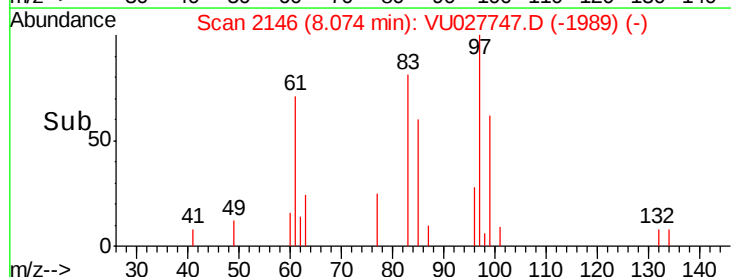
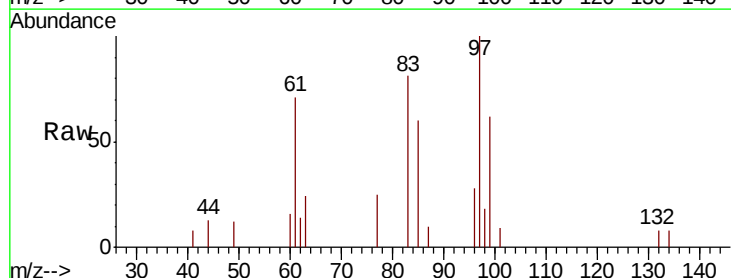
Manual Integrations
 APPROVED

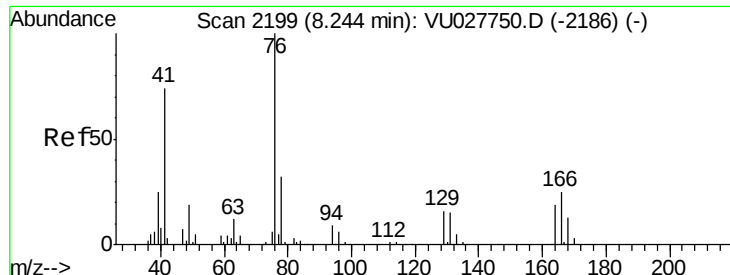
sam
 10/24/2018 2:18:57 PM



#52
 1,1,2-Trichloroethane
 Concen: 0.919 ug/l
 RT: 8.07 min Scan# 2146
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion:	97	Resp:	2638
Ion	Ratio	Lower	Upper
97	100		
83	80.7	73.0	109.6
85	59.9	46.5	69.7
99	61.8	49.8	74.8





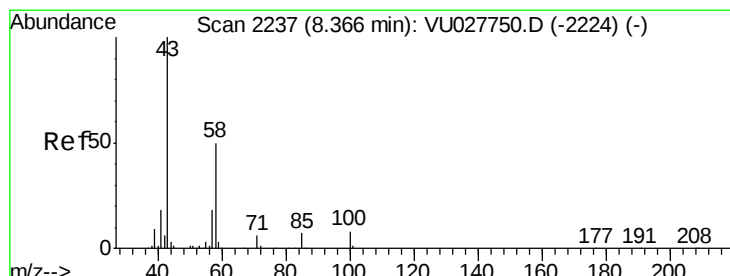
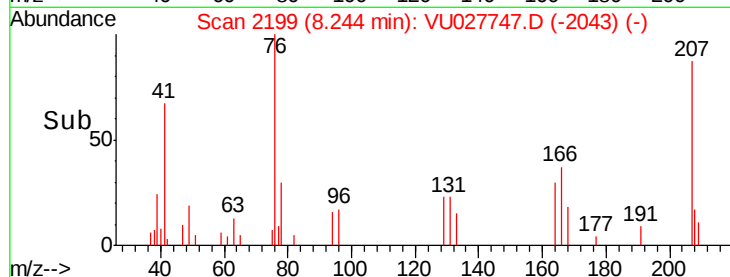
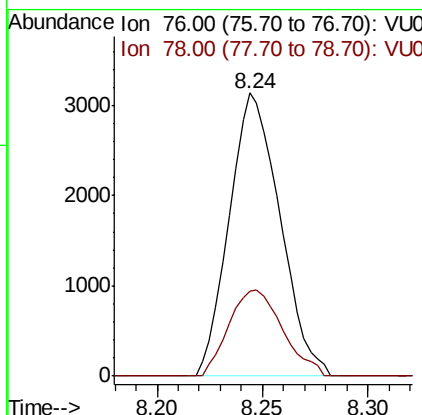
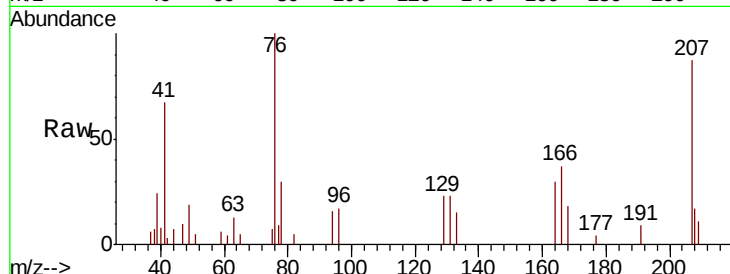
#53
 1,3-Dichloropropane
 Concen: 0.987 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion: 76 Resp: 5232
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.4 38.0

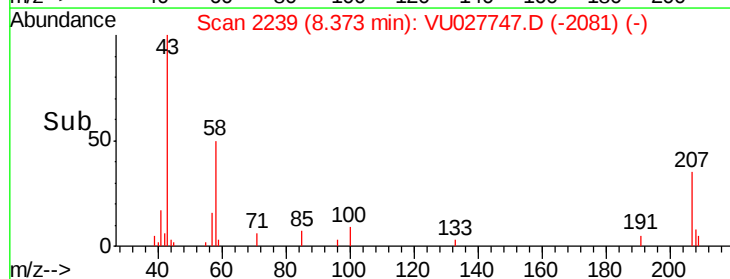
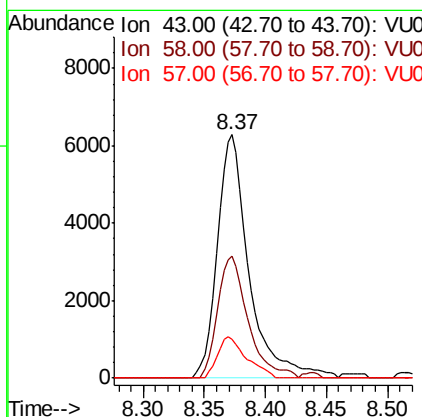
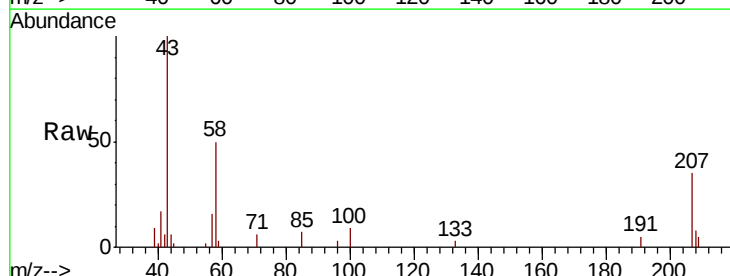
Manual Integrations
 APPROVED

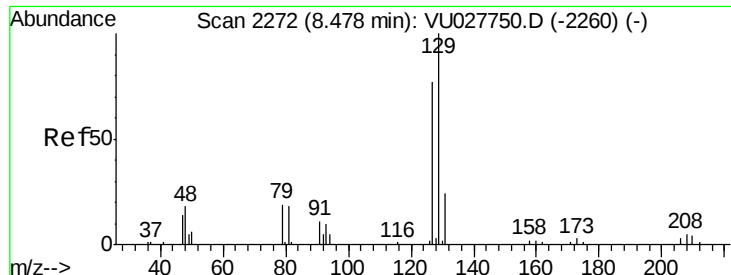
sam
 10/24/2018 2:18:57 PM



#54
 2-Hexanone
 Concen: 4.543 ug/l
 RT: 8.37 min Scan# 2239
 Delta R.T. 0.01 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion: 43 Resp: 11494
 Ion Ratio Lower Upper
 43 100
 58 47.9 30.0 70.0
 57 15.4 0.0 37.7





#55

Dibromochloromethane

Concen: 0.932 ug/l

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:129 Resp: 3256

Ion Ratio Lower Upper

129 100

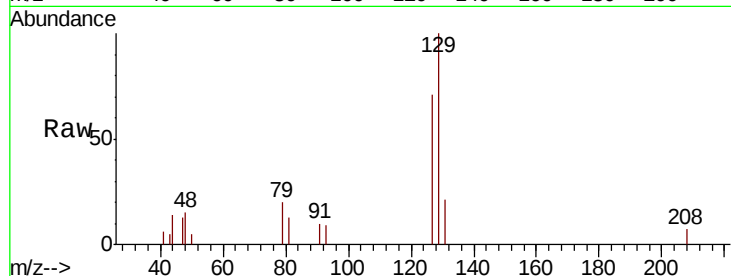
127 74.4 61.9 92.9

Manual Integrations

APPROVED

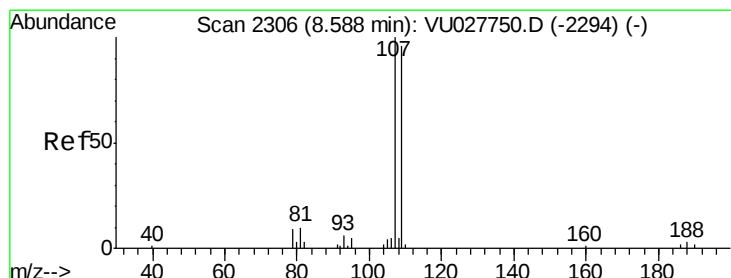
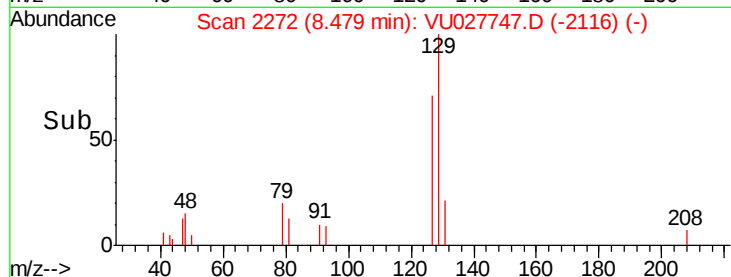
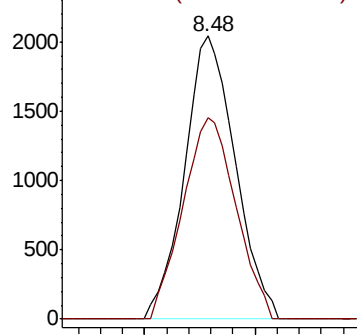
sam

10/24/2018 2:18:57 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 0.955 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU027747.D

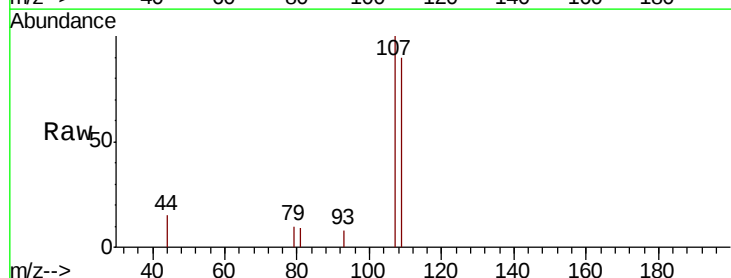
Acq: 22 Oct 2018 18:21

Tgt Ion:107 Resp: 2588

Ion Ratio Lower Upper

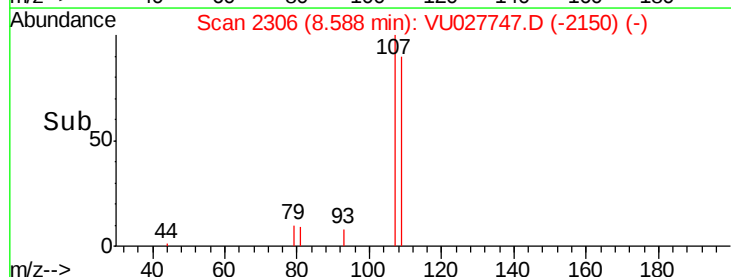
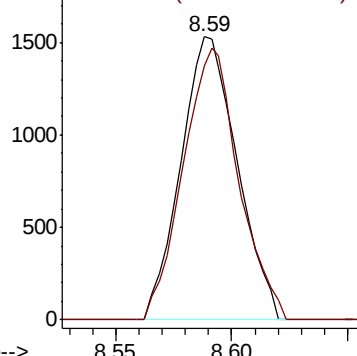
107 100

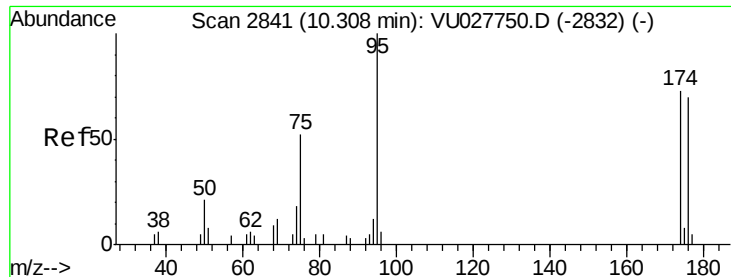
109 94.9 0.0 188.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





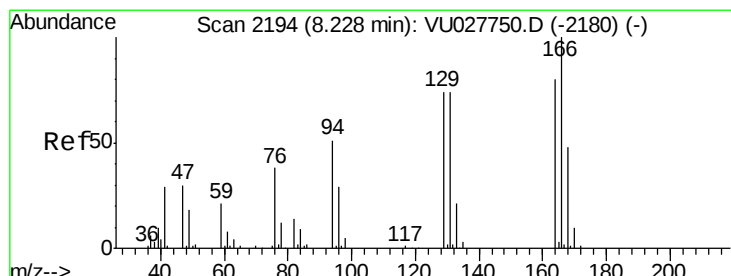
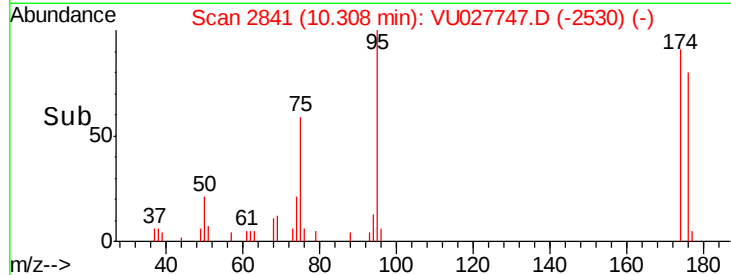
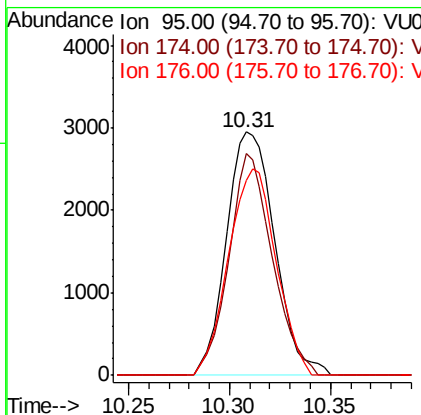
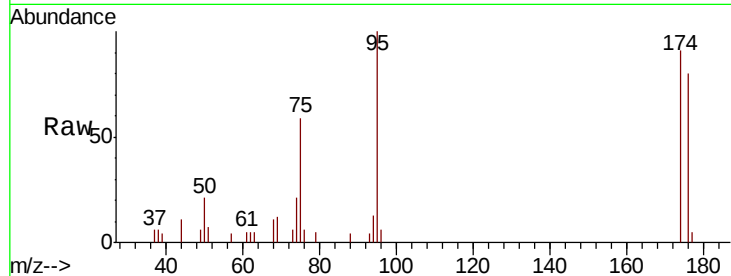
#57
 4-Bromofluorobenzene
 Concen: 0.955 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion:	95	Resp:	4947
Ion	Ratio	Lower	Upper
95	100		
174	81.8	64.5	96.7
176	83.5	58.3	87.5

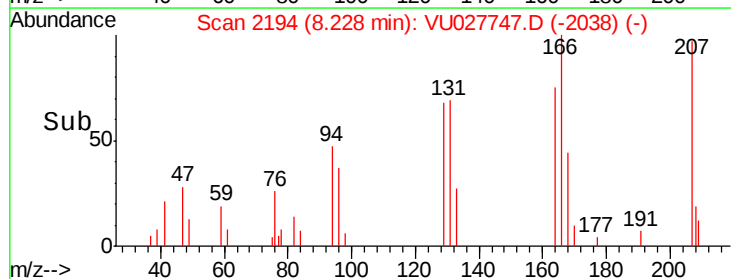
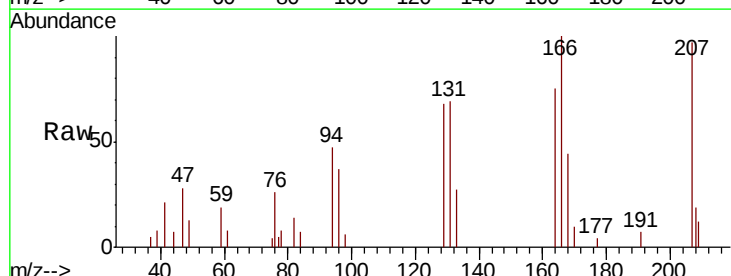
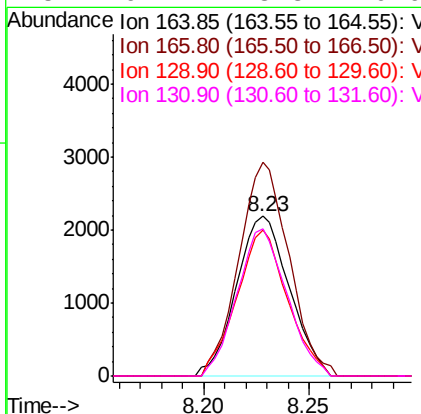
Manual Integrations
 APPROVED

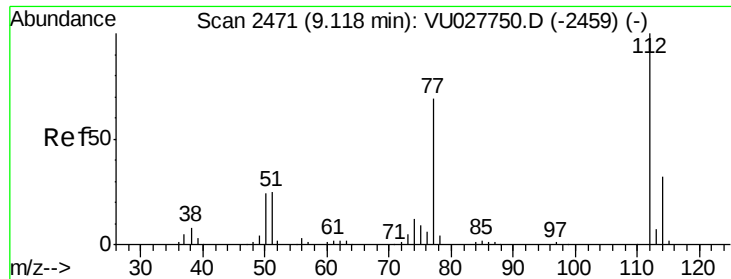
sam
 10/24/2018 2:18:57 PM



#58
 Tetrachloroethene
 Concen: 1.059 ug/l
 RT: 8.23 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion:	164	Resp:	3811
Ion	Ratio	Lower	Upper
164	100		
166	133.5	100.2	150.4
129	91.4	73.7	110.5
131	92.1	73.8	110.6





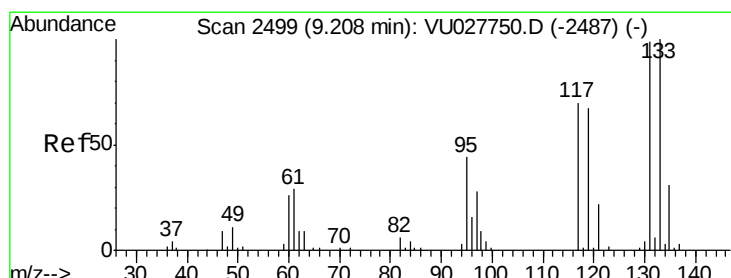
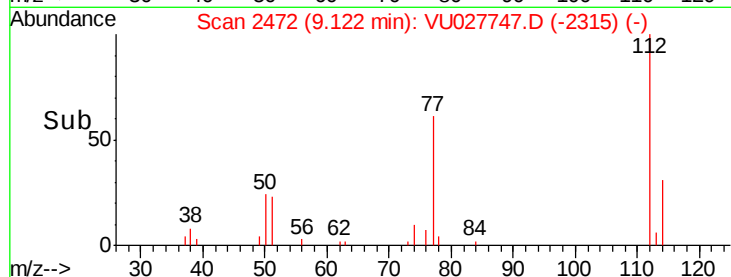
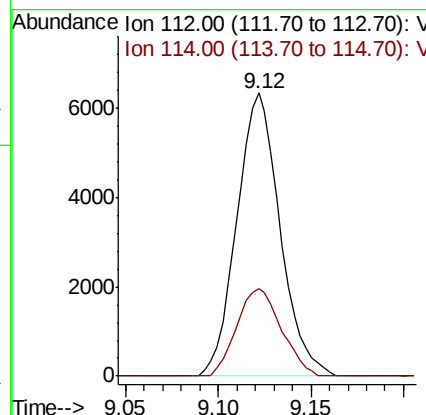
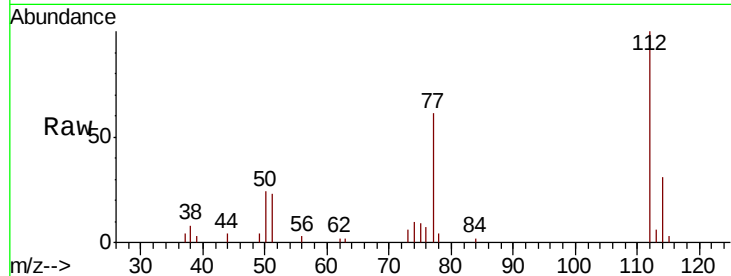
#59
Chlorobenzene
Concen: 1.001 ug/l
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion:112 Resp: 10256
Ion Ratio Lower Upper
112 100
114 31.0 25.4 38.0

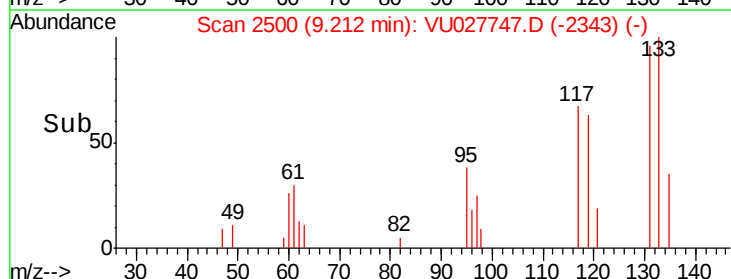
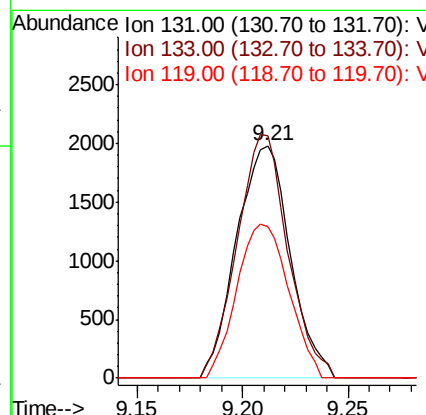
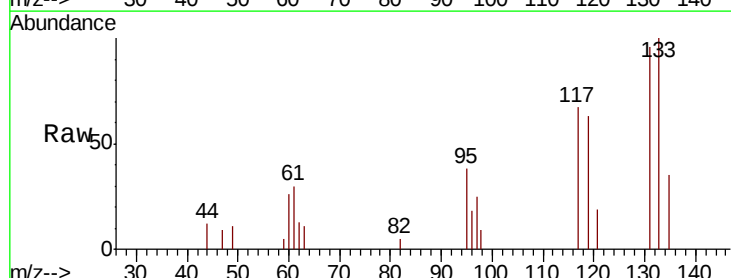
Manual Integrations
APPROVED

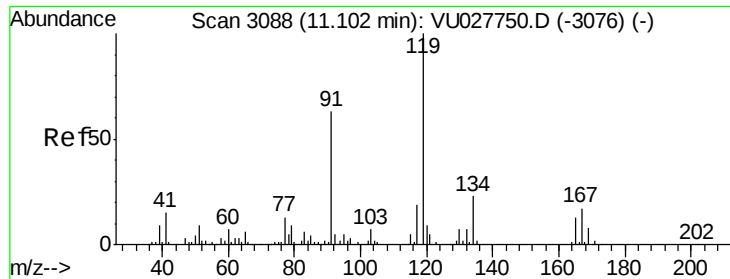
sam
10/24/2018 2:18:57 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 0.944 ug/l
RT: 9.21 min Scan# 2500
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion:131 Resp: 3505
Ion Ratio Lower Upper
131 100
133 99.1 77.5 116.3
119 64.0 52.0 78.0





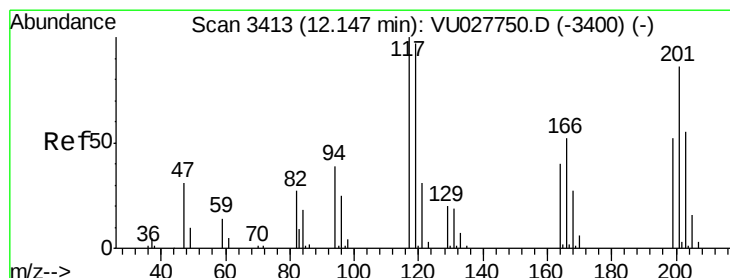
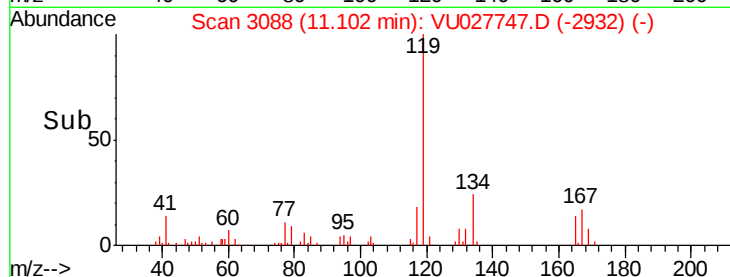
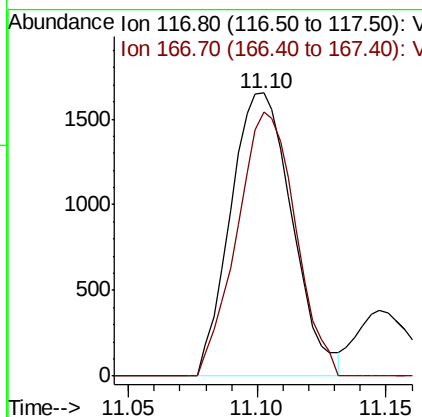
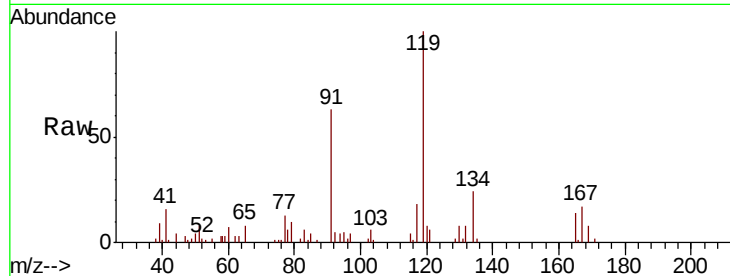
#61
 Pentachloroethane
 Concen: 0.955 ug/l
 RT: 11.10 min Scan# 3088
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion:117 Resp: 2744
 Ion Ratio Lower Upper
 117 100
 167 88.8 70.1 105.1

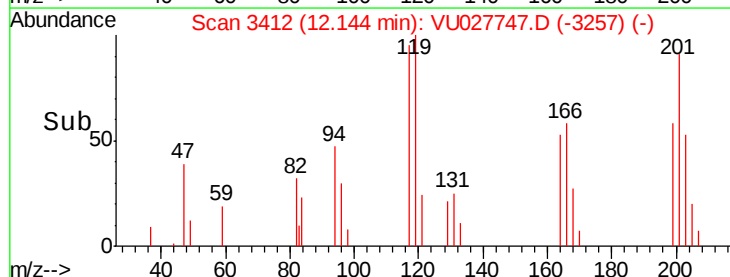
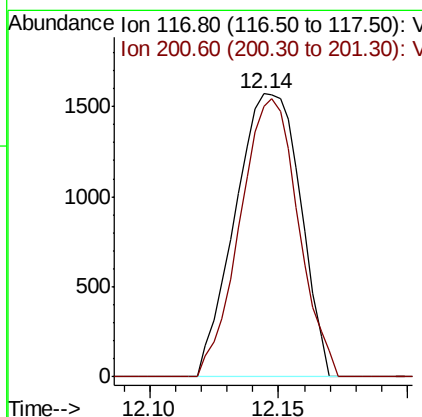
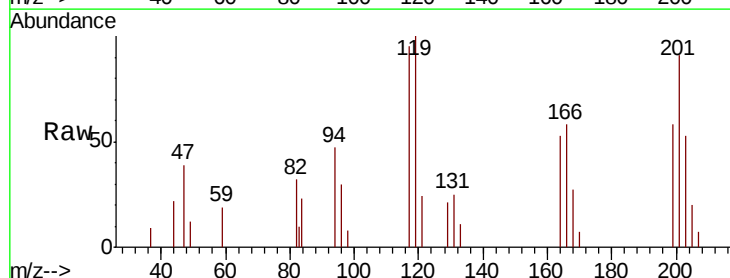
Manual Integrations
 APPROVED

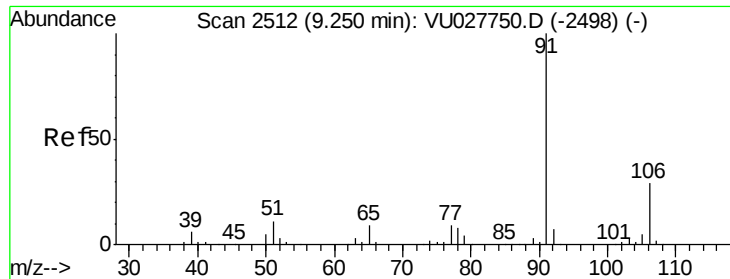
sam
 10/24/2018 2:18:57 PM



#62
 Hexachloroethane
 Concen: 0.893 ug/l
 RT: 12.14 min Scan# 3412
 Delta R.T. -0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion:117 Resp: 2765
 Ion Ratio Lower Upper
 117 100
 201 88.0 66.0 99.0





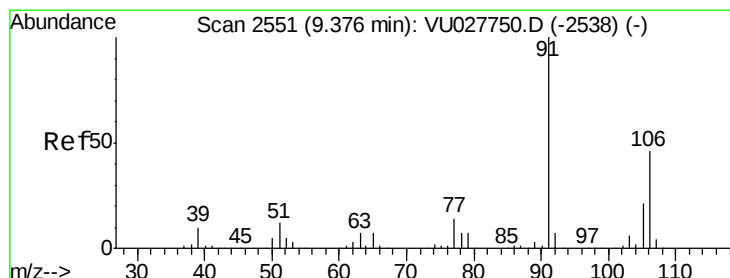
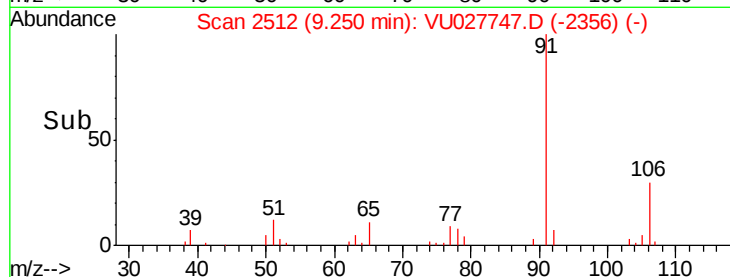
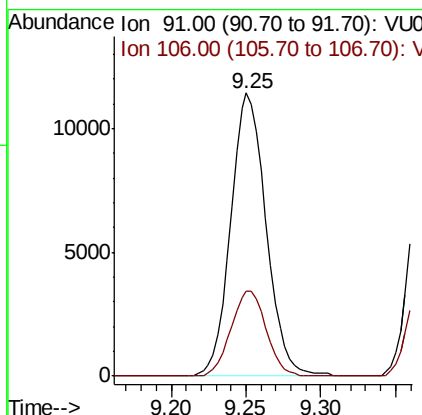
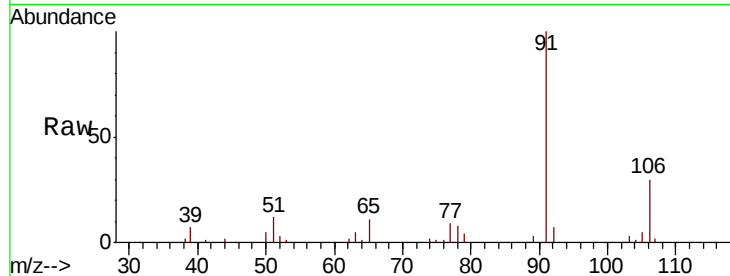
#63
Ethyl Benzene
Concen: 0.993 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 18795
Ion Ratio Lower Upper
91 100
106 29.9 23.5 35.3

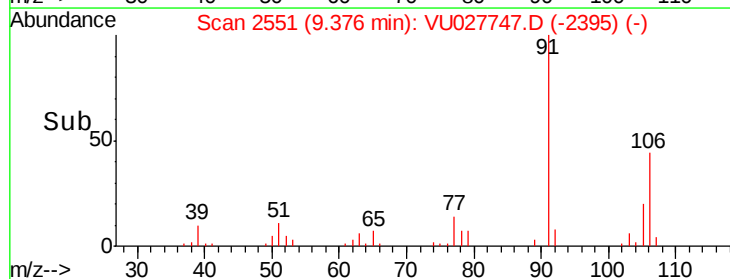
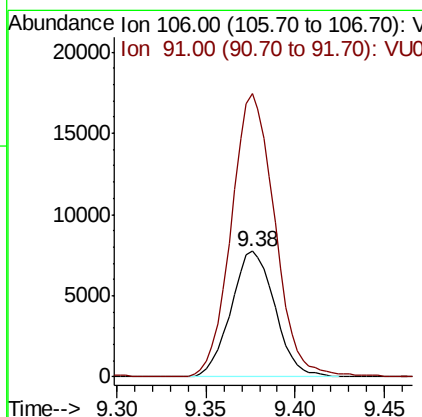
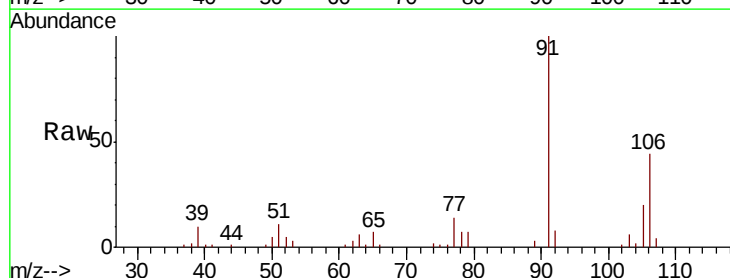
Manual Integrations
APPROVED

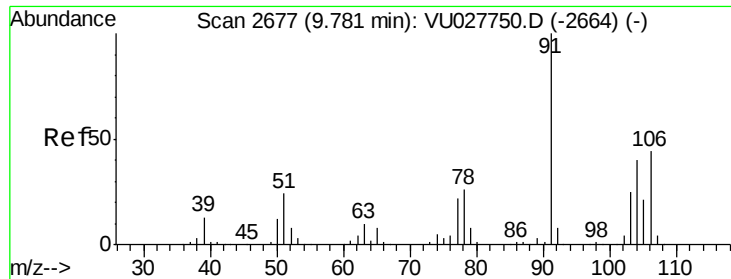
sam
10/24/2018 2:18:57 PM



#64
m/p-Xylenes
Concen: 1.916 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion: 106 Resp: 13263
Ion Ratio Lower Upper
106 100
91 222.8 173.3 259.9





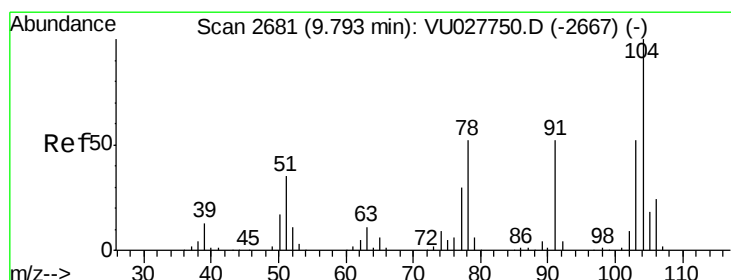
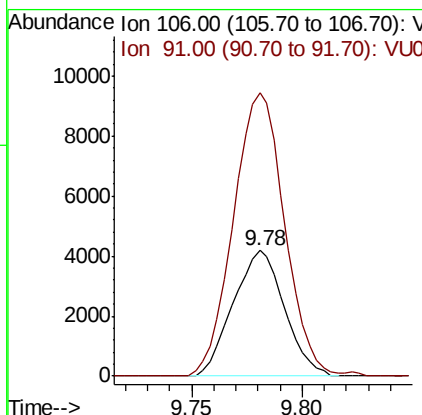
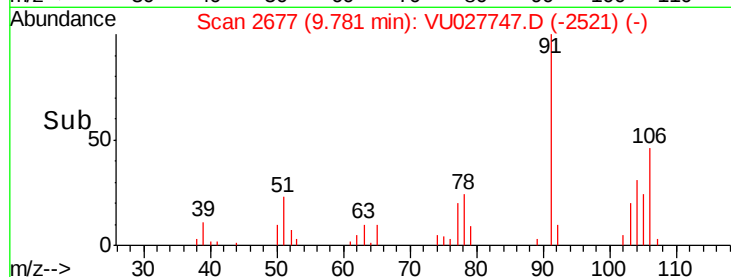
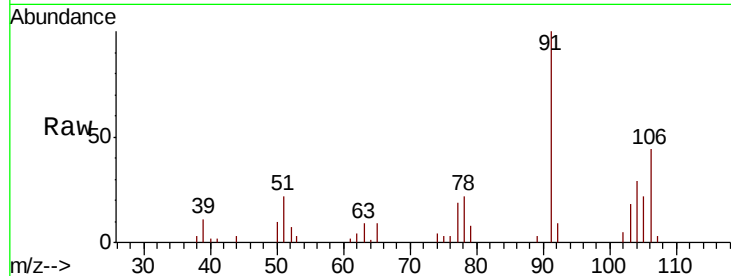
#65
o-Xylene
Concen: 0.975 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion:106 Resp: 6740
Ion Ratio Lower Upper
106 100
91 225.4 113.4 340.2

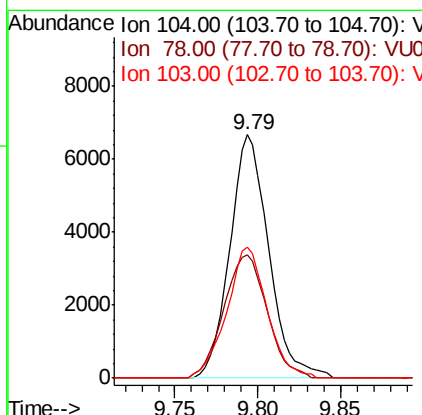
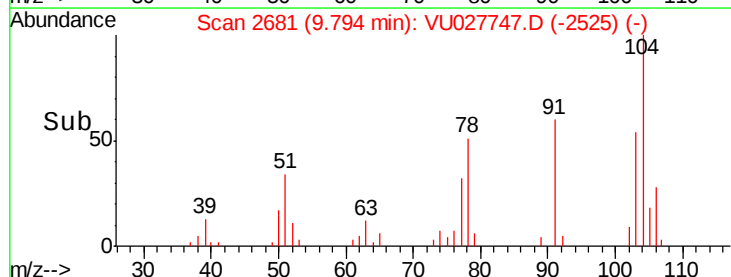
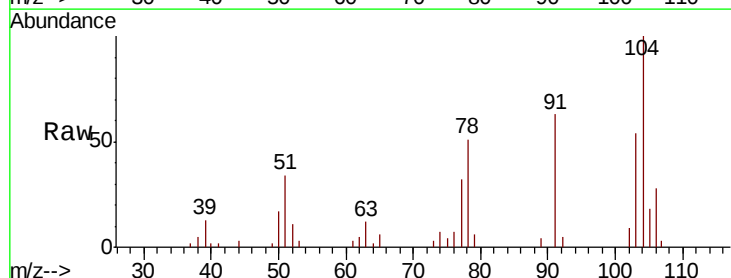
Manual Integrations
APPROVED

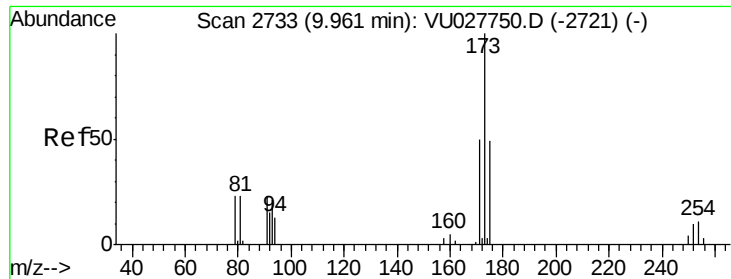
sam
10/24/2018 2:18:57 PM



#66
Styrene
Concen: 0.952 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion:104 Resp: 10889
Ion Ratio Lower Upper
104 100
78 56.4 45.2 67.8
103 55.7 44.8 67.2





#67

Bromoform

Concen: 0.902 ug/l

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

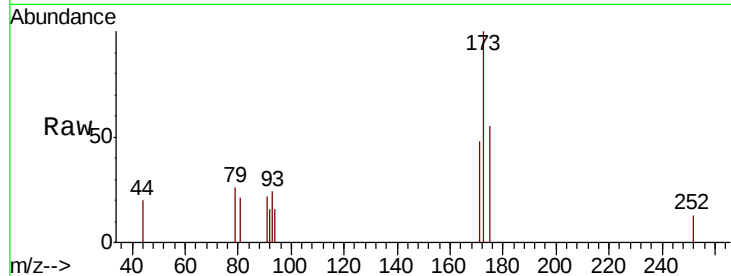
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.8	39.6	59.4
254	0.0	7.8	11.6

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM

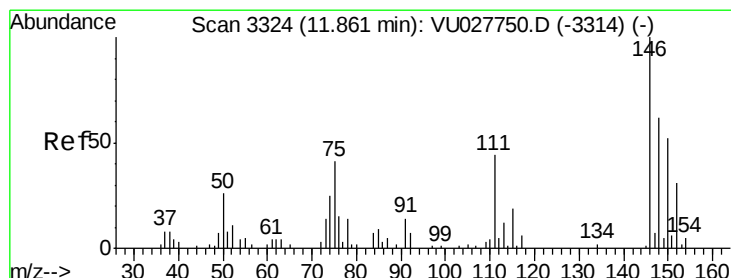
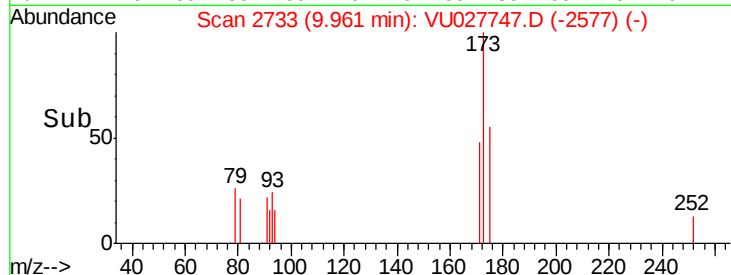
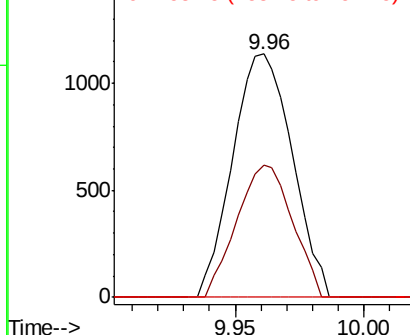


Abundance

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: 0.902 ug/l

RT: 11.86 min Scan# 3324

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

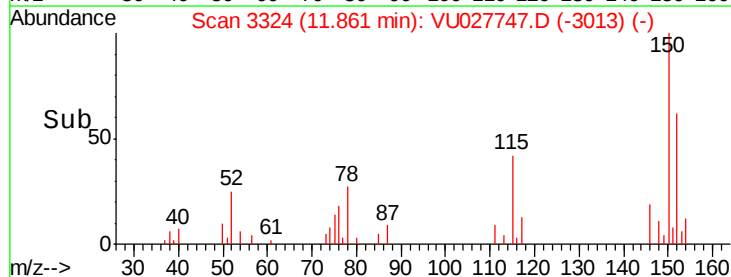
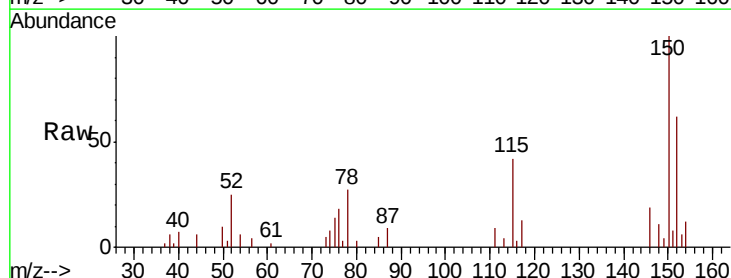
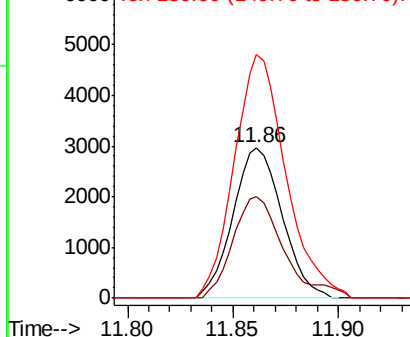
Tgt Ion	Ratio	Lower	Upper
152	100		
115	70.0	0.0	130.2
150	170.5	0.0	650.6

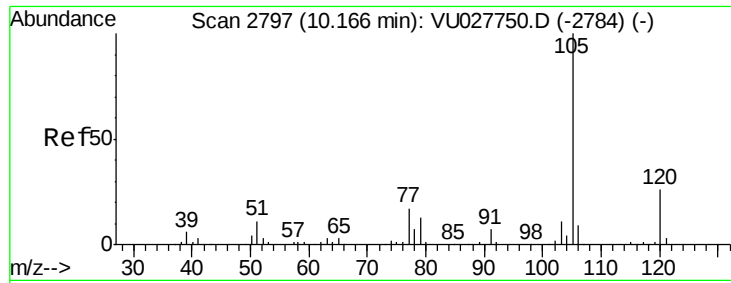
Abundance

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





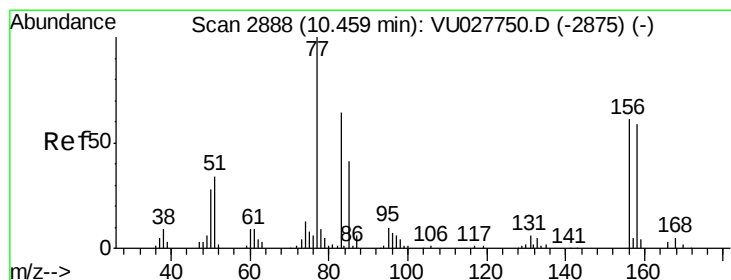
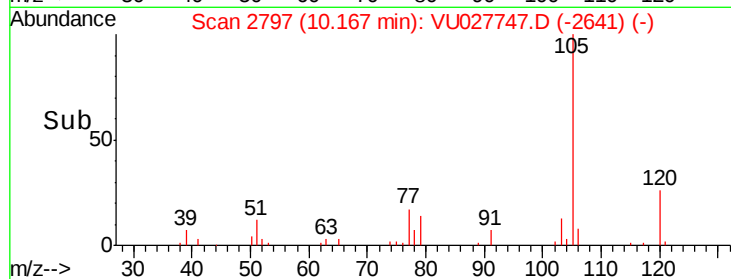
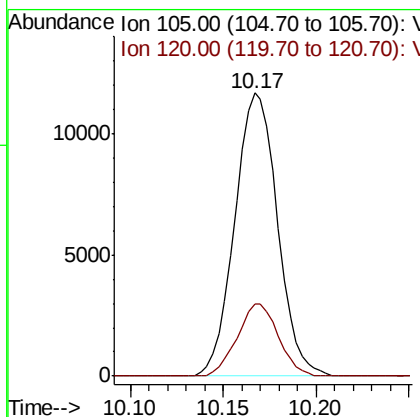
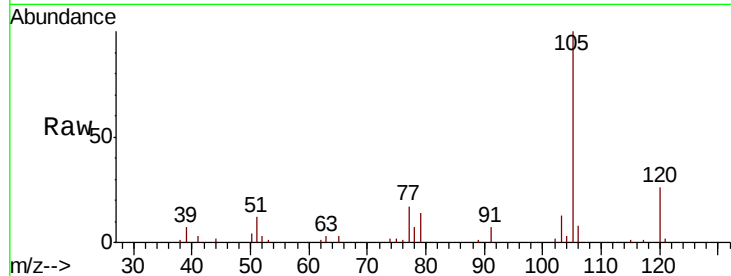
#69
Isopropylbenzene
Concen: 1.009 ug/l
RT: 10.17 min Scan# 2797
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampled :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.6	12.8	38.3

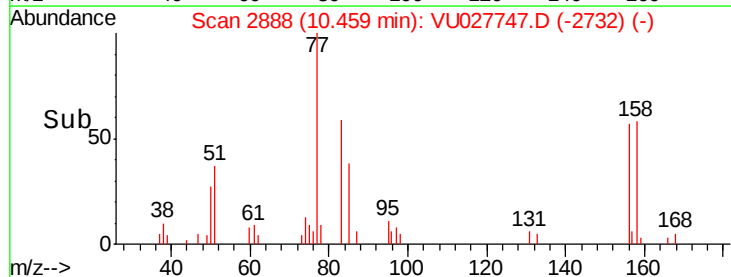
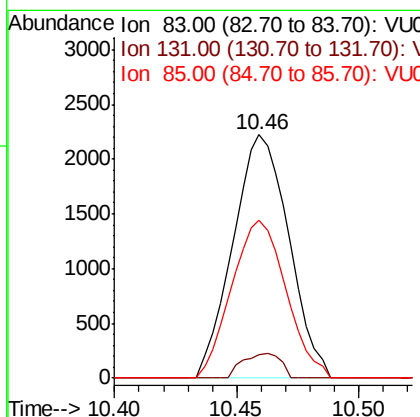
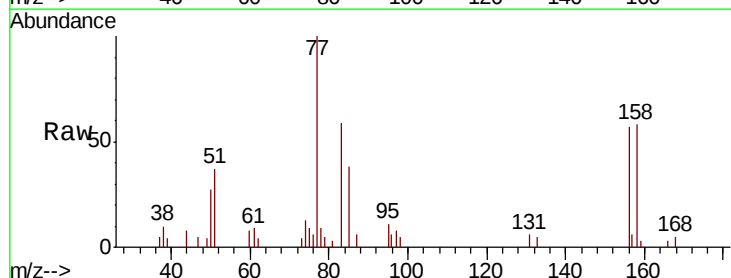
Manual Integrations
APPROVED

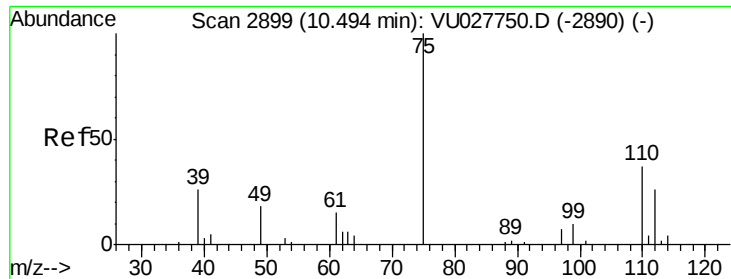
sam
10/24/2018 2:18:57 PM



#70
1,1,2,2-Tetrachloroethane
Concen: 0.946 ug/l
RT: 10.46 min Scan# 2888
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
83	100		
131	6.8	7.7	11.5#
85	63.3	51.2	76.8





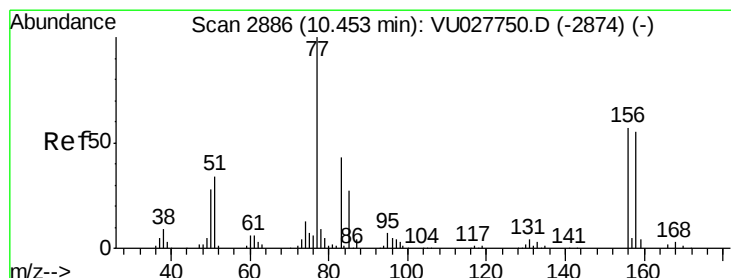
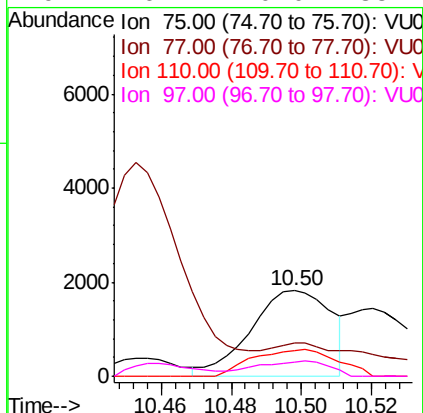
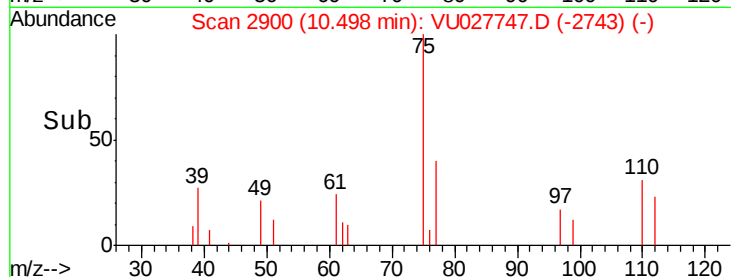
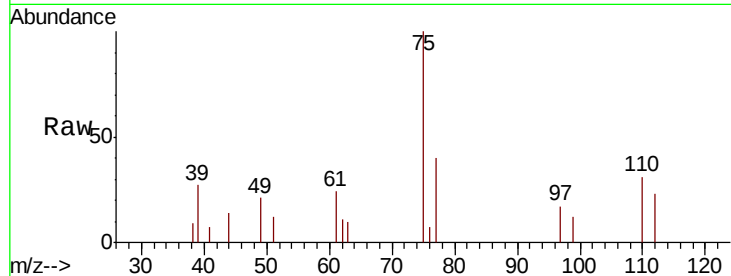
#71
 1,2,3-Trichloropropane
 Concen: 1.001 ug/l m
 RT: 10.50 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion:	75	Resp:	2896
Ion Ratio	Lower	Upper	
75	100		
77	52.2	0.0	0.0#
110	32.7	0.0	68.2
97	16.1	0.0	35.2

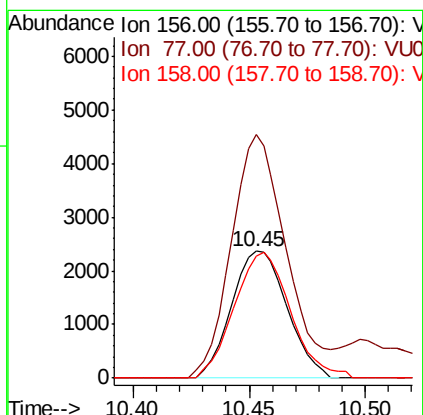
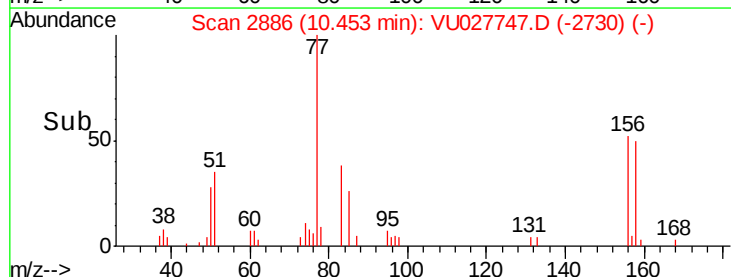
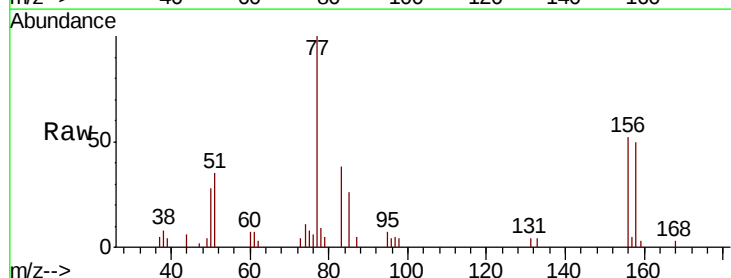
Manual Integrations
 APPROVED

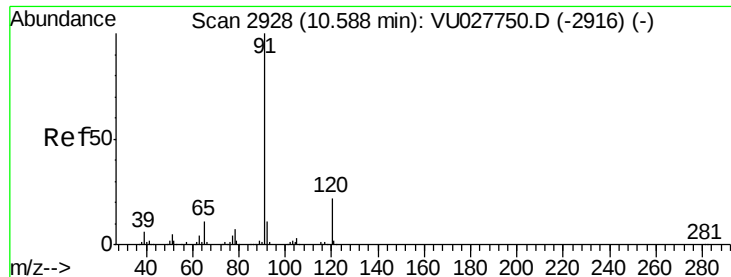
sam
 10/24/2018 2:18:57 PM



#72
 Bromobenzene
 Concen: 0.951 ug/l
 RT: 10.45 min Scan# 2886
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion:	156	Resp:	3933
Ion Ratio	Lower	Upper	
156	100		
77	189.8	0.0	349.4
158	100.9	0.0	191.4





#73

n-propylbenzene

Concen: 0.931 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:120 Resp: 4412

Ion Ratio Lower Upper

120 100

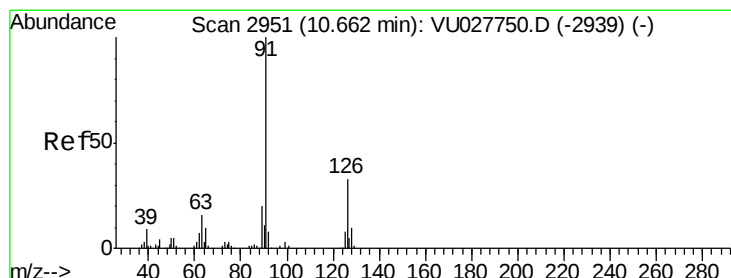
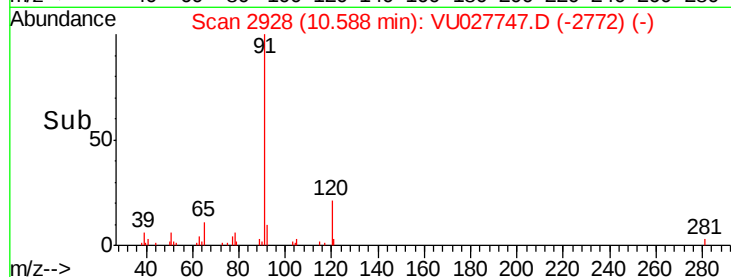
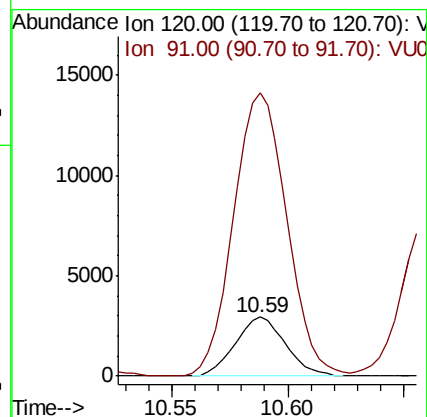
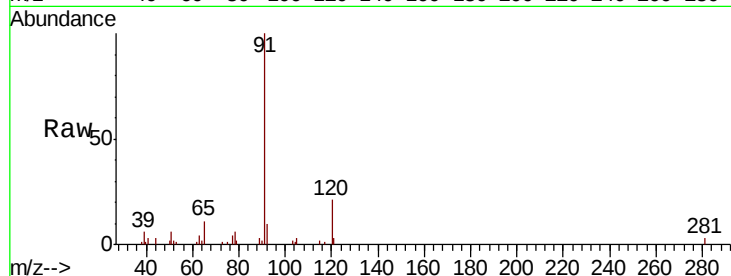
91 511.0 369.0 553.6

Manual Integrations

APPROVED

sam

10/24/2018 2:18:57 PM



#74

2-Chlorotoluene

Concen: 0.936 ug/l

RT: 10.67 min Scan# 2952

Delta R.T. 0.00 min

Lab File: VU027747.D

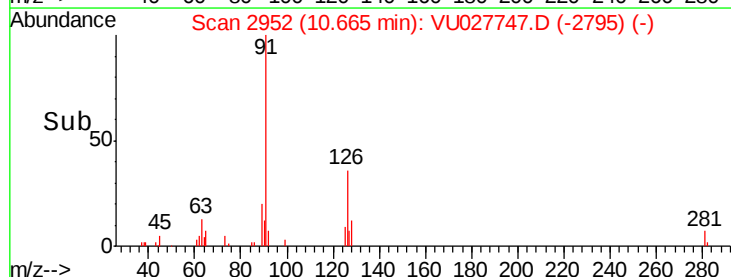
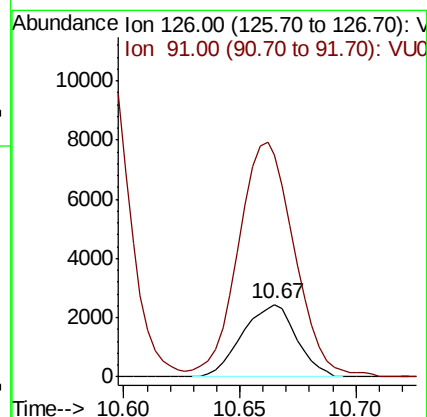
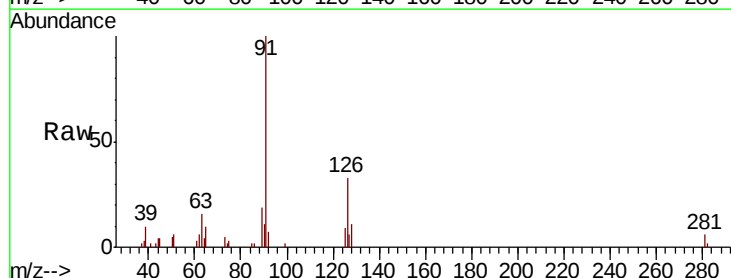
Acq: 22 Oct 2018 18:21

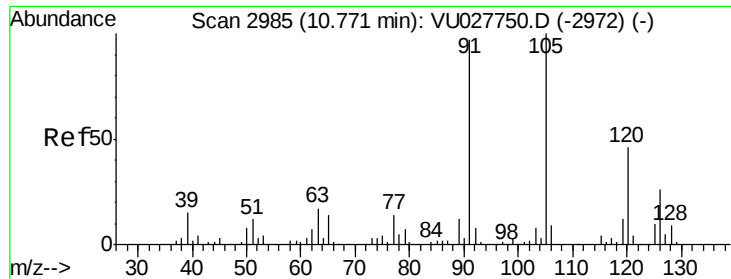
Tgt Ion:126 Resp: 3961

Ion Ratio Lower Upper

126 100

91 337.0 0.0 628.8





#75

1,3,5-Trimethylbenzene

Concen: 0.966 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 14913

Ion Ratio Lower Upper

105 100

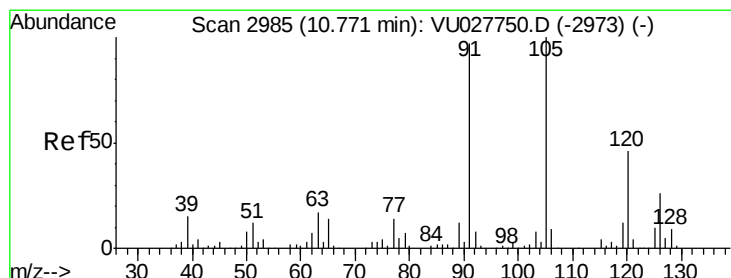
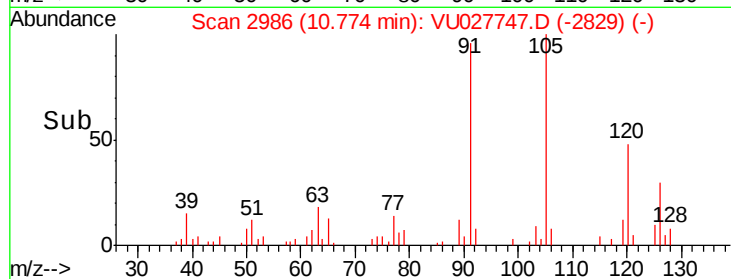
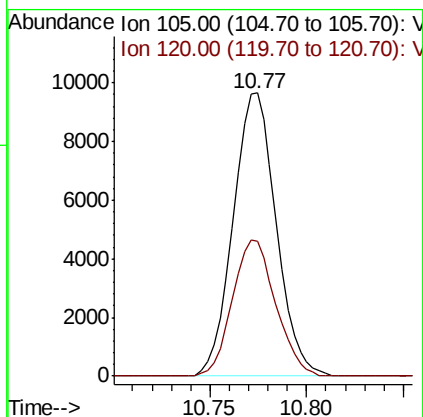
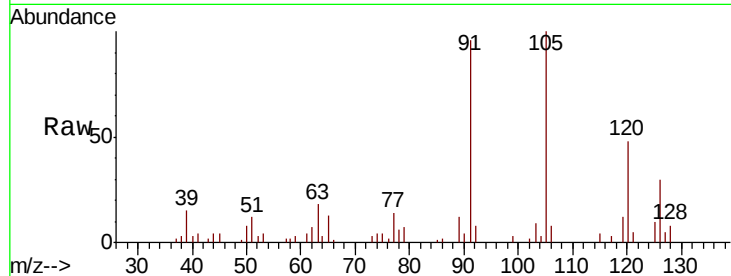
120 48.3 37.2 55.8

Manual Integrations

APPROVED

sam

10/24/2018 2:18:57 PM



#76

4-Chlorotoluene

Concen: 1.038 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027747.D

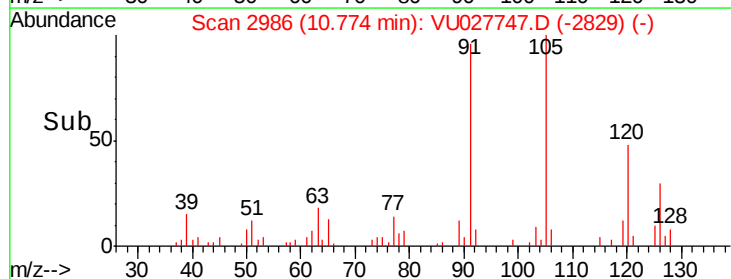
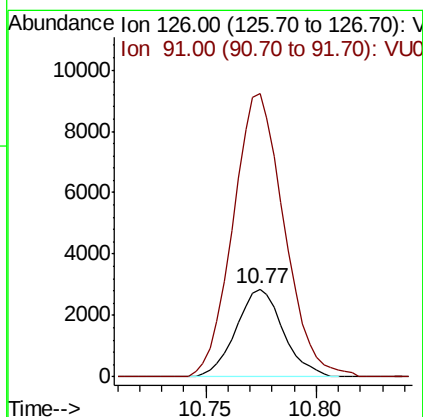
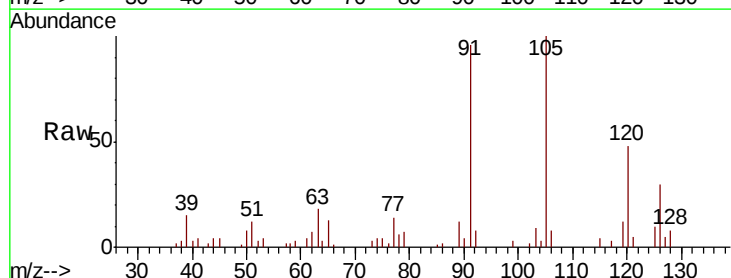
Acq: 22 Oct 2018 18:21

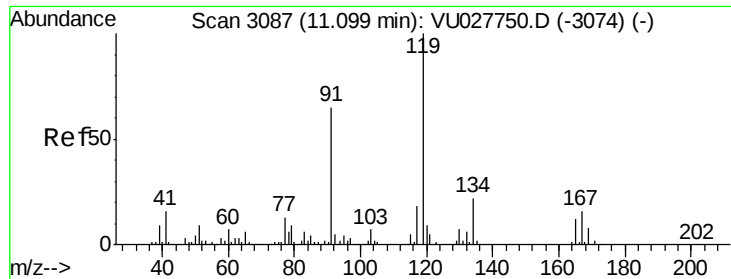
Tgt Ion:126 Resp: 4231

Ion Ratio Lower Upper

126 100

91 351.3 0.0 734.4





#77

tert-Butylbenzene

Concen: 1.002 ug/l

RT: 11.10 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

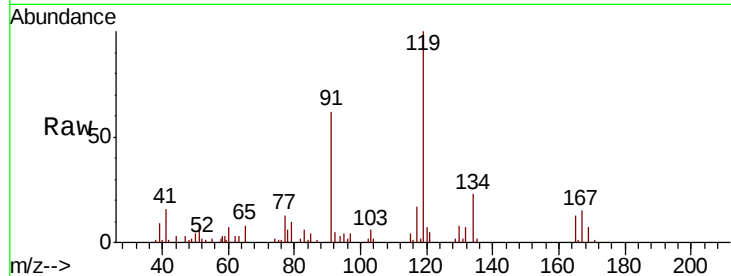
ClientSampleId :

VSTDIC001

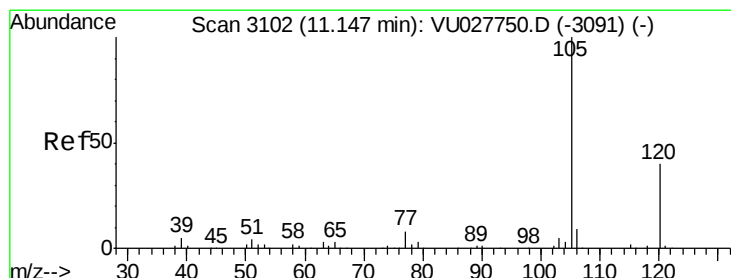
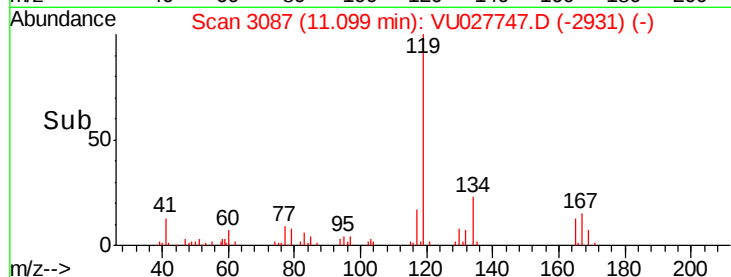
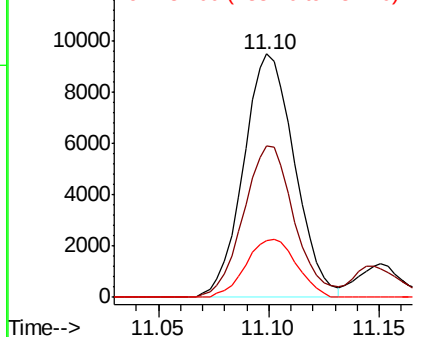
Tot Ion:	119	Resp:	15340
Ion Ratio	Lower	Upper	
119	100		
91	61.8	31.8	95.4
134	23.4	17.7	26.5

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM



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



#78

1,2,4-Trimethylbenzene

Concen: 0.953 ug/l

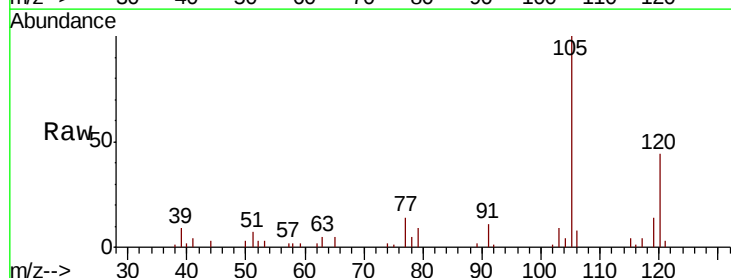
RT: 11.15 min Scan# 3103

Delta R.T. 0.00 min

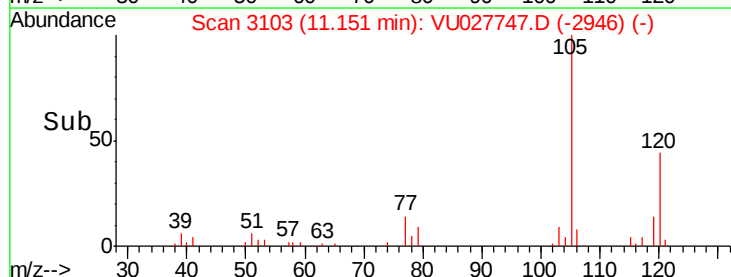
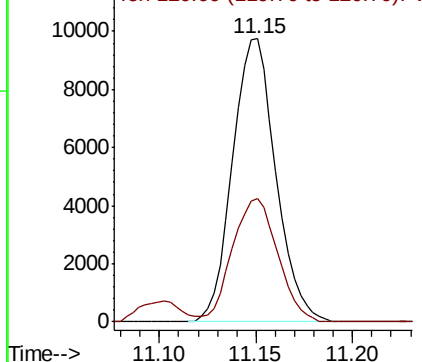
Lab File: VU027747.D

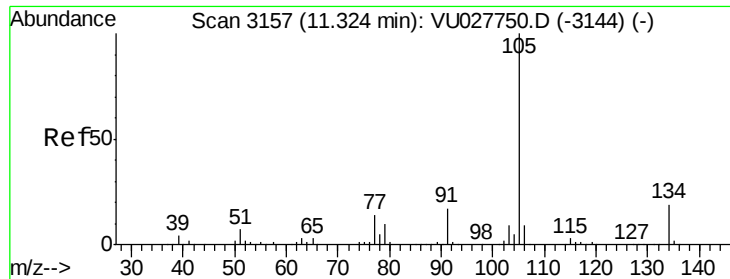
Acq: 22 Oct 2018 18:21

Tgt Ion:	105	Resp:	15167
Ion Ratio	Lower	Upper	
105	100		
120	45.7	21.6	64.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 1.003 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 19654

Ion Ratio Lower Upper

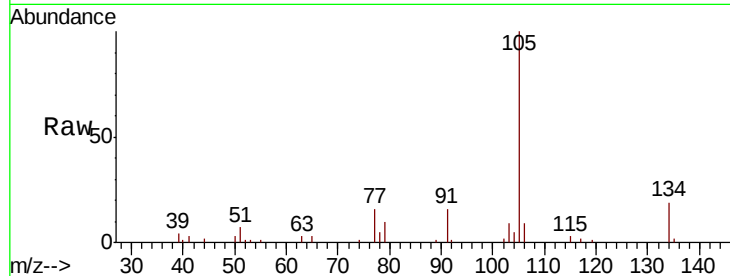
105 100

134 19.4 15.2 22.8

Manual Integrations
APPROVED

sam

10/24/2018 2:18:57 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

15000

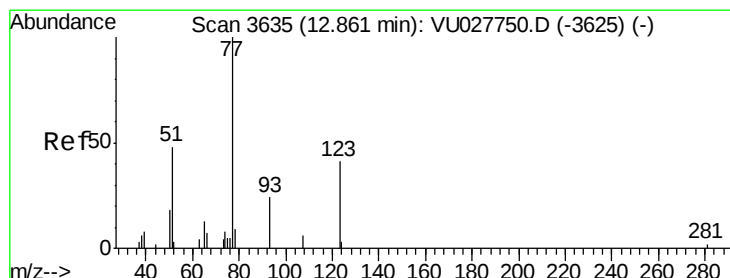
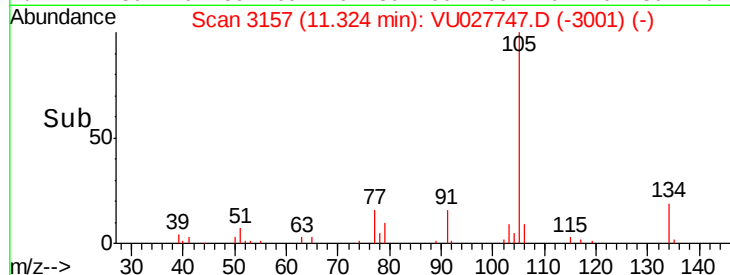
11.32

10000

5000

0

Time--> 11.25 11.30 11.35



#80

Nitrobenzene

Concen: 2.237 ug/l

RT: 12.87 min Scan# 3638

Delta R.T. 0.01 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

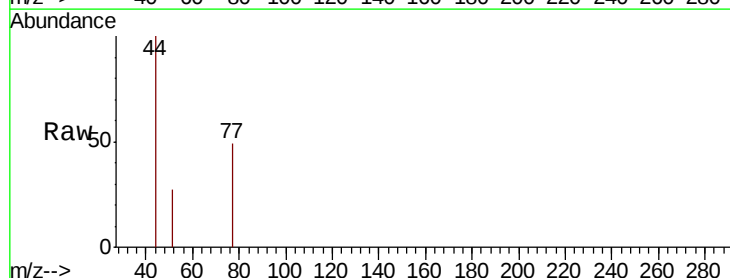
Tgt Ion: 77 Resp: 387

Ion Ratio Lower Upper

77 100

123 0.0 16.9 59.9#

65 0.0 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

250

200

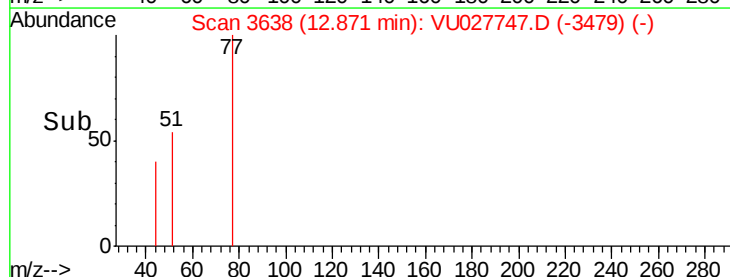
150

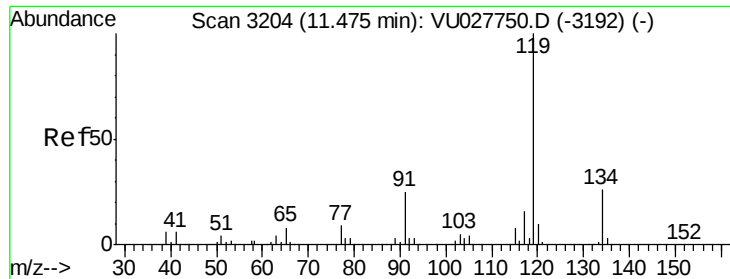
100

50

0

Time--> 12.85 12.90





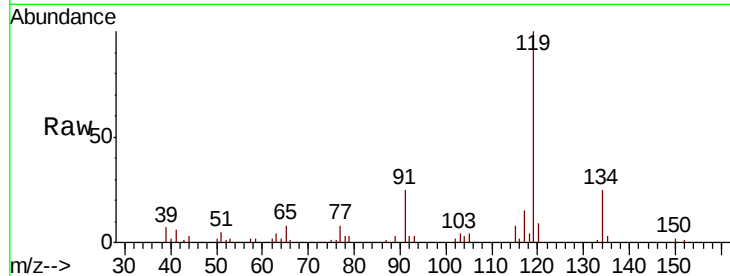
#81
 p-Isopropyltoluene
 Concen: 0.995 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	26.3	20.2	30.4

Manual Integrations
 APPROVED

sam
 10/24/2018 2:18:57 PM

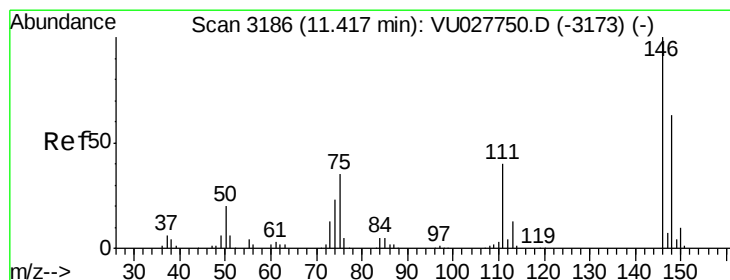
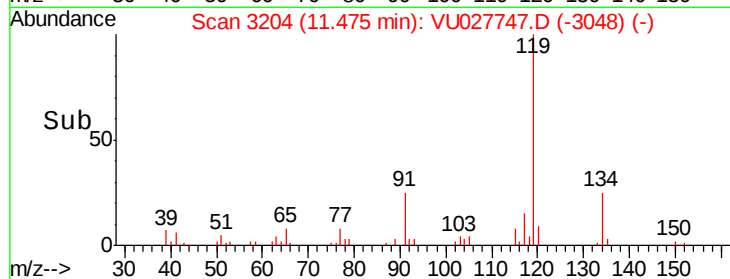
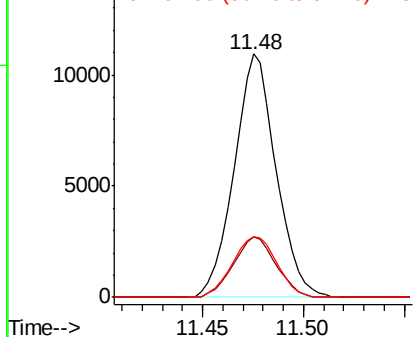


Abundance

Ion 119.00 (118.70 to 119.70): V

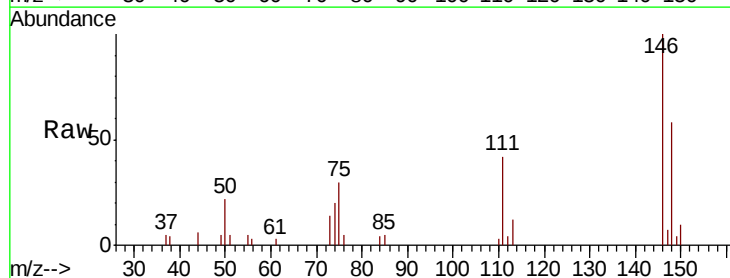
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#82
 1,3-Dichlorobenzene
 Concen: 1.035 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	32.7	49.1
148	59.3	50.6	75.8

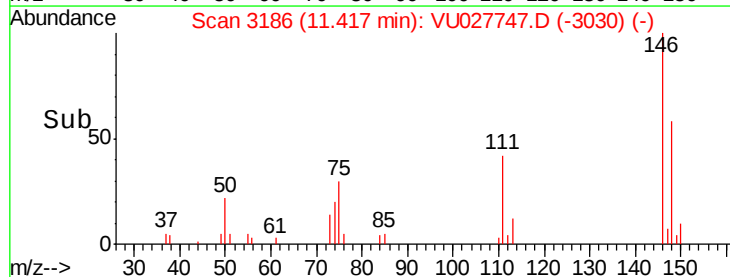
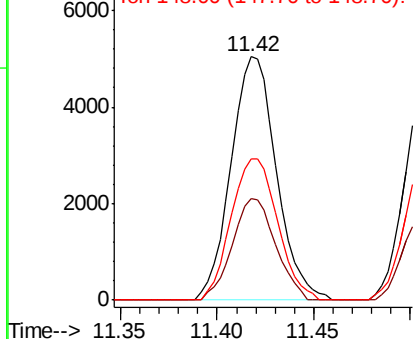


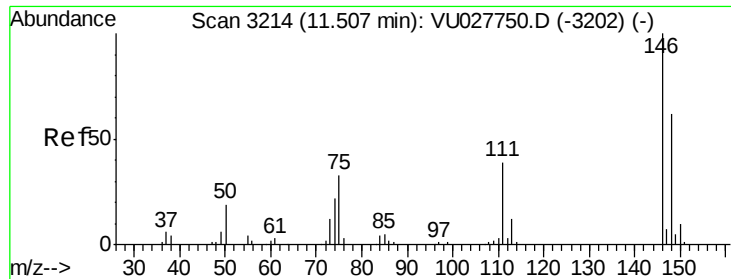
Abundance

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





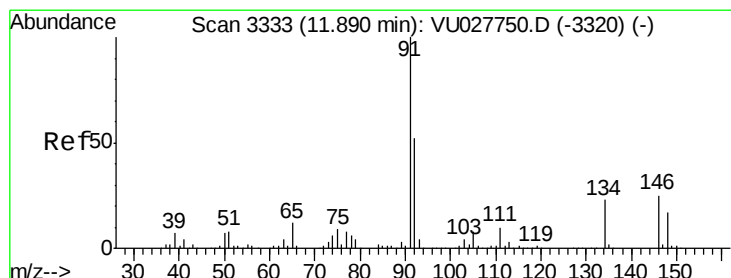
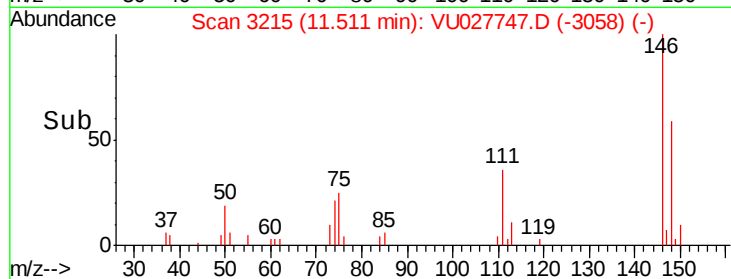
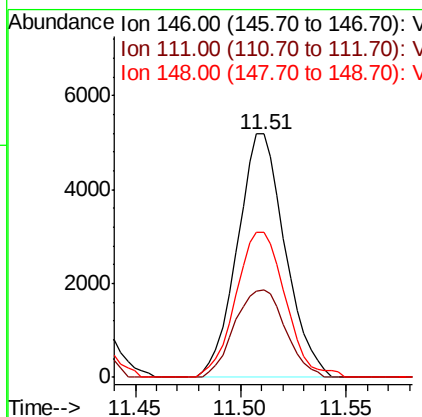
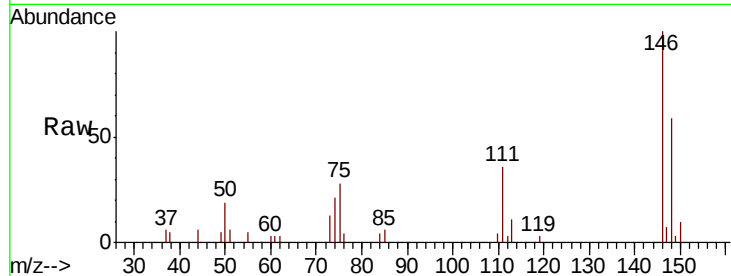
#83
 1,4-Dichlorobenzene
 Concen: 1.039 ug/l
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	32.0	48.0
148	62.1	50.9	76.3

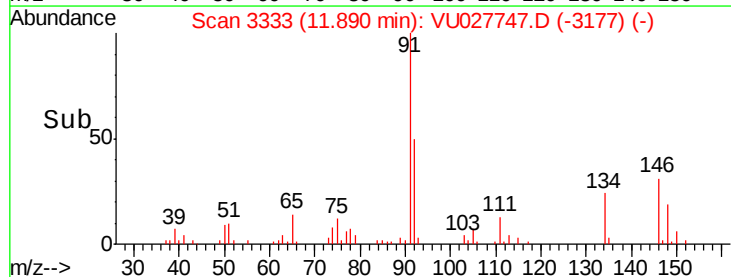
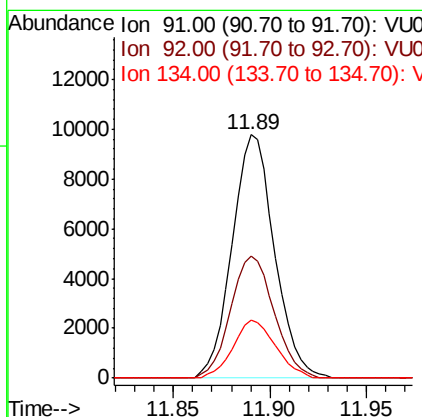
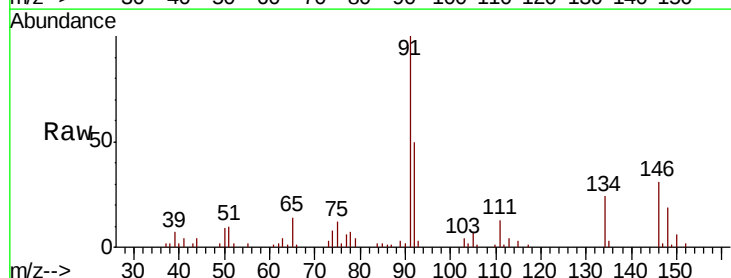
Manual Integrations
 APPROVED

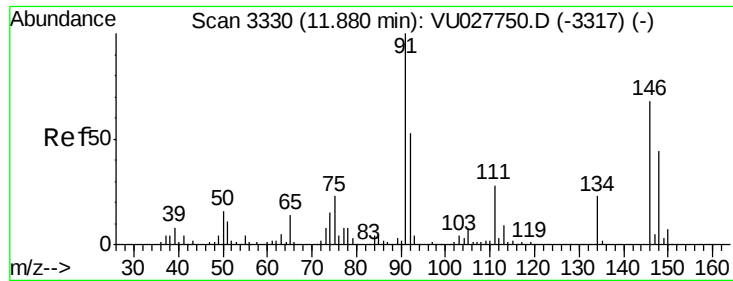
sam
 10/24/2018 2:18:57 PM



#84
 n-Butylbenzene
 Concen: 0.986 ug/l
 RT: 11.89 min Scan# 3333
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.5	42.1	63.1
134	23.8	18.6	28.0





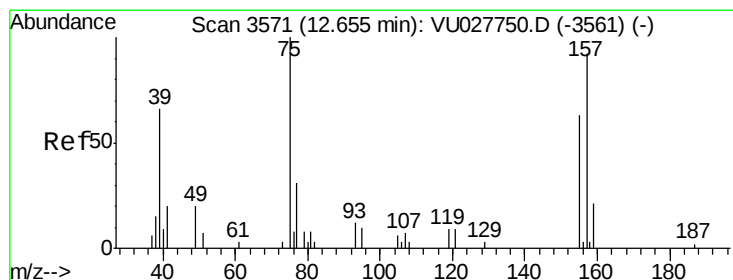
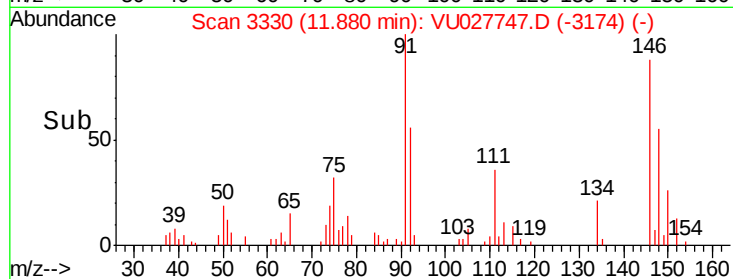
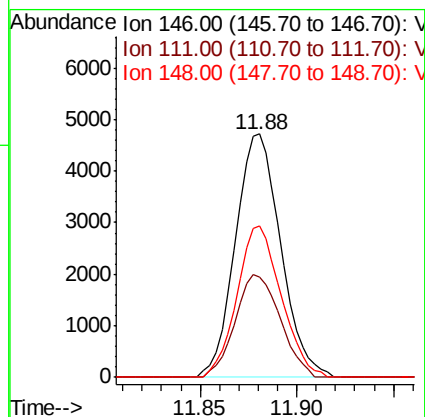
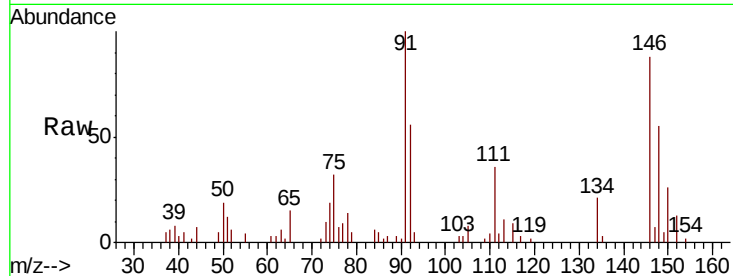
#85
 1,2-Dichlorobenzene
 Concen: 1.015 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	60.5	32.2	96.6

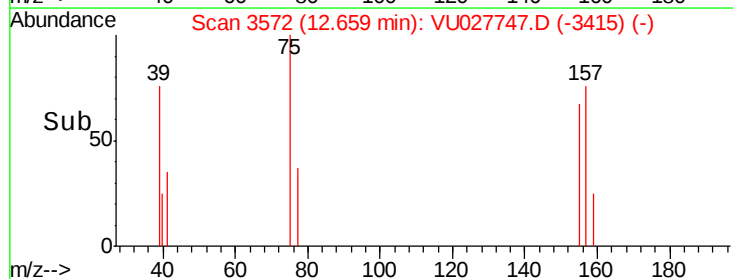
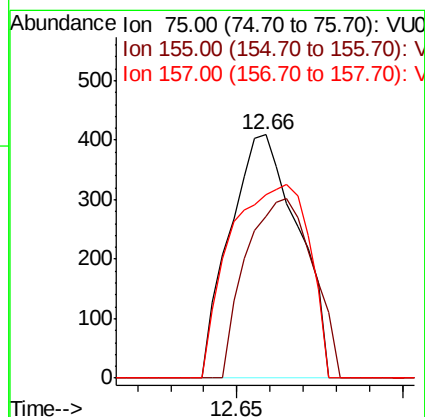
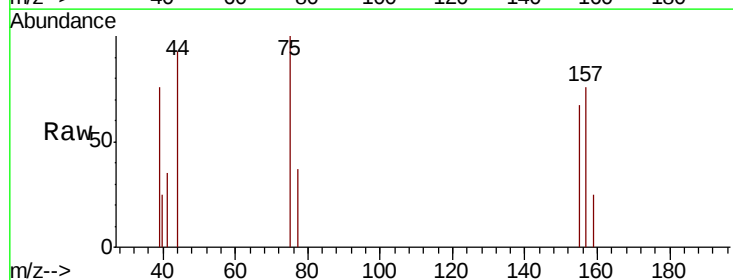
Manual Integrations
 APPROVED

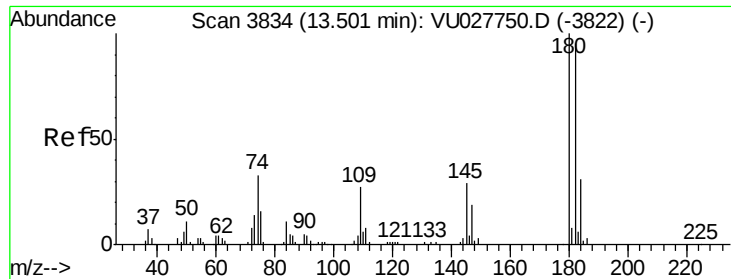
sam
 10/24/2018 2:18:57 PM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.890 ug/l
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU027747.D
 Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.5	55.5	83.3
157	92.2	71.0	106.4





#87

1,2,4-Trichlorobenzene

Concen: 0.910 ug/l

RT: 13.50 min Scan# 3835

Delta R.T. 0.00 min

Lab File: VU027747.D

Acq: 22 Oct 2018 18:21

Instrument :

MSVOA_U

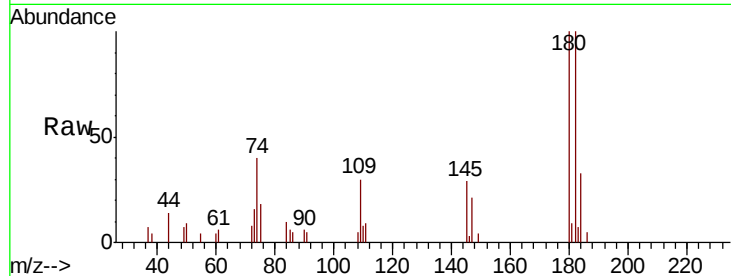
ClientSampleId :

VSTDIC001

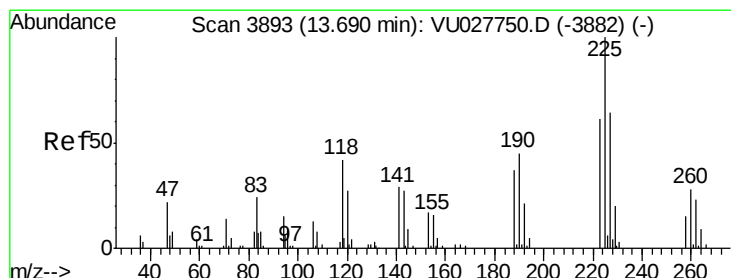
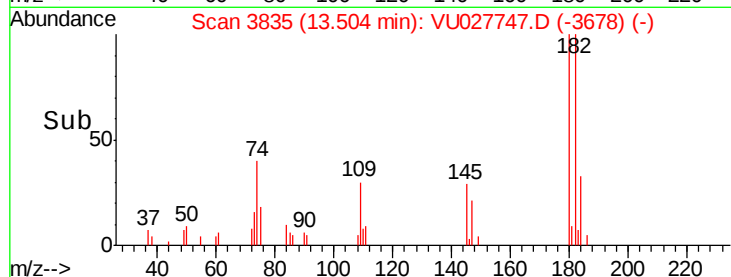
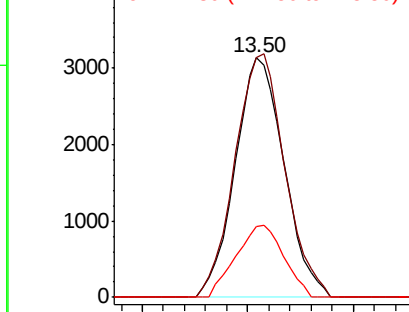
Tot Ion:	180	Resp:	5054
Ion Ratio	Lower	Upper	
180	100		
182	103.3	75.9	113.9
145	29.3	23.6	35.4

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM



Abundance Ion 179.70 (179.40 to 180.40): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#88

Hexachlorobutadiene

Concen: 0.996 ug/l

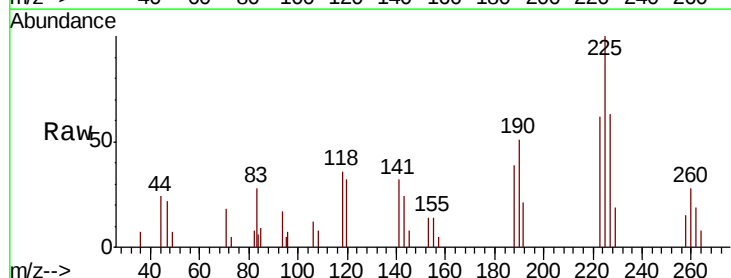
RT: 13.69 min Scan# 3893

Delta R.T. 0.00 min

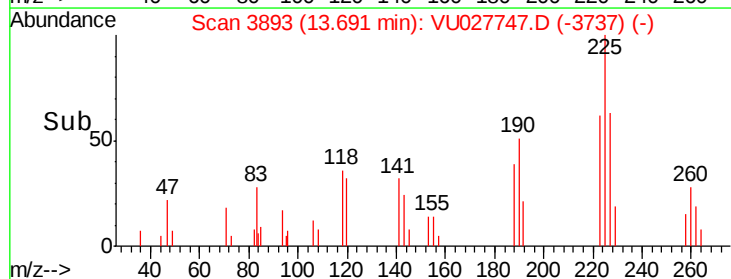
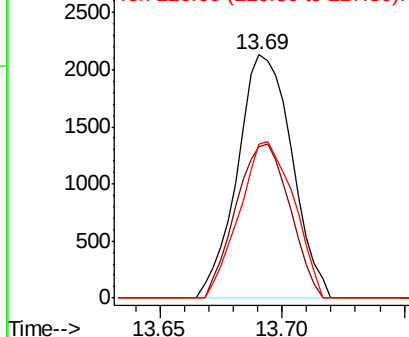
Lab File: VU027747.D

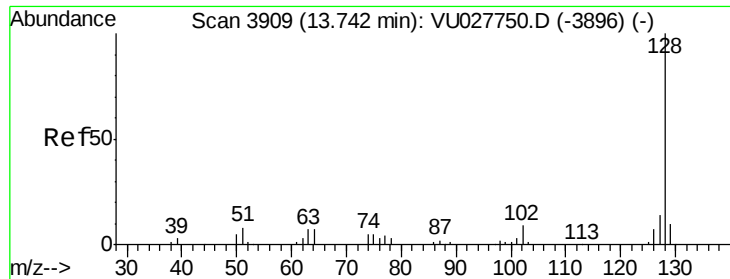
Acq: 22 Oct 2018 18:21

Tgt Ion:	225	Resp:	3294
Ion Ratio	Lower	Upper	
225	100		
223	62.9	49.6	74.4
227	64.0	51.1	76.7



Abundance Ion 224.60 (224.30 to 225.30): V
Ion 222.60 (222.30 to 223.30): V
Ion 226.60 (226.30 to 227.30): V





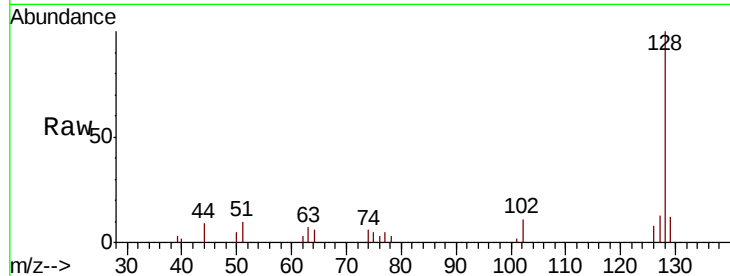
#89
Naphthalene
Concen: 0.882 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

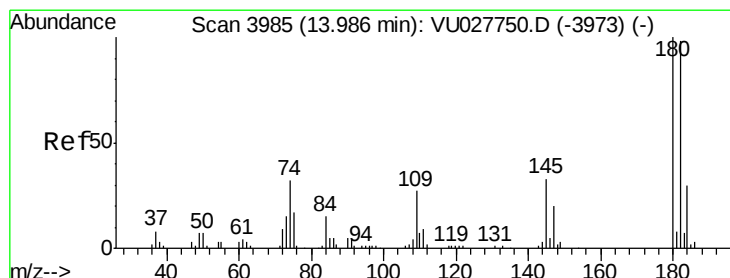
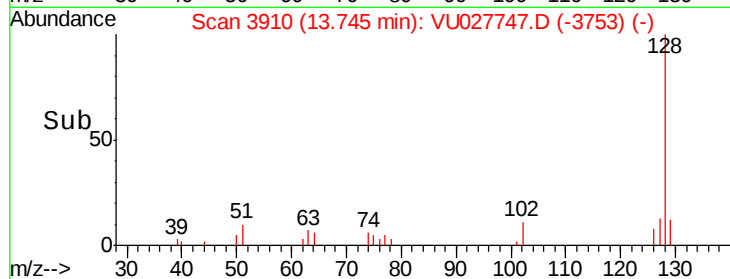
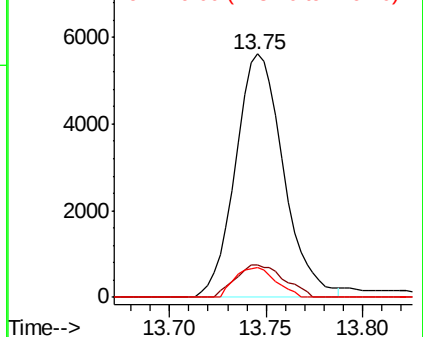
Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.7	16.1
129	10.4	8.5	12.7

Manual Integrations
APPROVED

sam
10/24/2018 2:18:57 PM

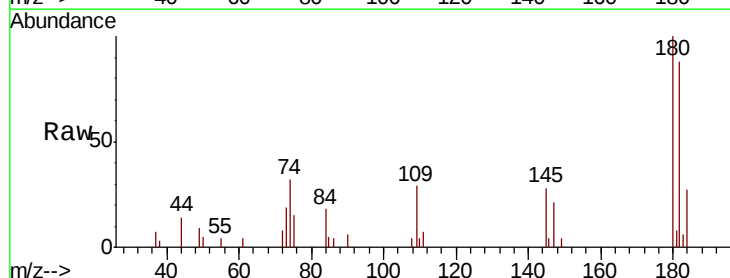


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#90
1,2,3-Trichlorobenzene
Concen: 1.002 ug/l
RT: 13.99 min Scan# 3986
Delta R.T. 0.00 min
Lab File: VU027747.D
Acq: 22 Oct 2018 18:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.0	115.6
145	29.9	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

