

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U112618\
 Data File : VU028339.D
 Acq On : 26 Nov 2018 15:21
 Operator : MD/SY
 Sample : J5164-08 1.0ppb
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM

Quant Time: Nov 27 01:48:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U0112618DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Nov 27 01:03:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	48301	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	17090	0.96	ug/l	0.00
Spiked Amount	1.000		Recovery	=	96.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	15496	0.94	ug/l	0.00
Spiked Amount	1.000		Recovery	=	94.00%	

MMDadoda

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	17877	1.029	ug/l	93
3) Chloromethane	1.32	50	27494	0.930	ug/l	97
4) Vinyl Chloride	1.40	62	21050	1.040	ug/l	97
5) Bromomethane	1.63	94	6974	0.875	ug/l	92
6) Chloroethane	1.70	64	11849	1.003	ug/l	98
7) Trichlorofluoromethane	1.89	101	22557	1.020	ug/l	99
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	13691	1.077	ug/l	98
9) 1,1-Dichloroethene	2.29	96	11698	0.995	ug/l	97
10) Iodomethane	2.41	142	8370	1.052	ug/l	98
11) Allyl Chloride	2.59	41	30780	1.037	ug/l	97
12) Acrylonitrile	2.94	53	7873	2.102	ug/l	92
13) Acetone	2.33	43	17940	5.168	ug/l	99
14) Carbon Disulfide	2.48	76	45887	1.027	ug/l	100
15) Methylene Chloride	2.70	84	14949	1.042	ug/l	96
16) trans-1,2-Dichloroethene	2.98	96	12814	0.974	ug/l	96
17) 1,1-Dichloroethane	3.44	63	30139	1.027	ug/l	97
18) 2-Butanone	4.29	43	24918	4.804	ug/l	98
19) Cyclohexane	4.99	56	25294	0.993	ug/l	98
20) Methylcyclohexane	6.41	83	24439	0.980	ug/l	97
21) 2,2-Dichloropropane	4.23	77	23102	0.981	ug/l	100
22) cis-1,2-Dichloroethene	4.22	96	15385	0.999	ug/l	93
23) Diethyl Ether	2.11	59	12370	1.049	ug/l	94
24) tert-Butyl Alcohol	2.86	59	12088	10.216	ug/l	98
25) Methyl tert-Butyl Ether	3.01	73	36366	1.041	ug/l	97
26) Bromochloromethane	4.55	128	5773	0.983	ug/l	90
27) Chloroform	4.67	83	30342	1.072	ug/l	99
28) 1,1,1-Trichloroethane	4.91	97	21787	0.986	ug/l	97
29) 1,1-Dichloropropene	5.13	75	21083	0.995	ug/l	99
30) Carbon Tetrachloride	5.13	117	17801	0.998	ug/l	89
31) Isopropyl Ether	3.58	45	53255	1.014	ug/l	96
32) Ethyl-t-butyl ether	4.08	59	43150	0.997	ug/l	100
33) Tert-Amyl methyl ether	5.58	73	35299	0.983	ug/l #	97
34) Propionitrile	4.35	54	6559	5.034	ug/l #	62
35) Benzene	5.39	78	62677	1.004	ug/l	98
36) 1,2-Dichloroethane	5.41	62	19042	1.020	ug/l #	91
37) Trichloroethene	6.18	130	13749	1.012	ug/l	98
38) 1,2-Dichloropropane	6.43	63	18892	1.062	ug/l	96
39) Methacrylonitrile	4.56	41	7141	1.023	ug/l #	92
40) Methyl acrylate	4.43	55	9543	0.994	ug/l #	95
41) Tetrahydrofuran	4.66	42	6469	1.844	ug/l	96
42) 1-Chlorobutane	5.06	56	34151	1.014	ug/l	99

11/30/2018 2:33:43 PM

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U0112618\
 Data File : VU028339.D
 Acq On : 26 Nov 2018 15:21
 Operator : MD/SY
 Sample : J5164-08 1.0ppb
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 Client Sample ID :
 LOQ-WATER-02-QT4-2018

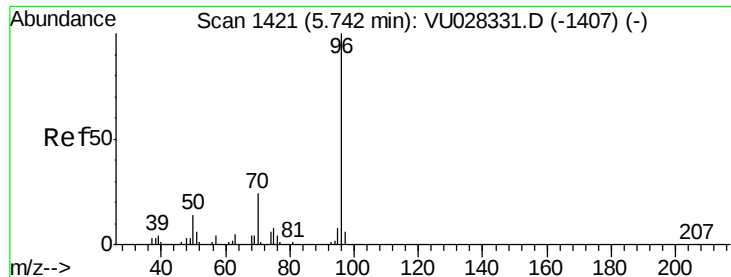
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM

Quant Time: Nov 27 01:48:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U0112618DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Nov 27 01:03:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	7654	1.010	ug/l	95
44) Bromodichloromethane	6.76	83	20552	1.027	ug/l	99
45) 4-Methyl-2-Pentanone	7.47	43	58748	4.828	ug/l	99
46) t-1,4-Dichloro-2-butene	10.52	75	6222m	1.398	ug/l	
47) Methyl methacrylate	6.63	69	14854	1.921	ug/l	98
48) Ethyl methacrylate	8.02	69	14344	0.927	ug/l	95 MMDadoda
49) Toluene	7.64	92	33634	0.971	ug/l	96
50) t-1,3-Dichloropropene	7.88	75	17540	0.913	ug/l	95
51) cis-1,3-Dichloropropene	7.27	75	23342	0.984	ug/l	98
52) 1,1,2-Trichloroethane	8.07	97	10186	0.958	ug/l	97
53) 1,3-Dichloropropane	8.24	76	19752	0.994	ug/l	96 11/30/2018 2:33:43 PM
54) 2-Hexanone	8.37	43	40805	4.662	ug/l	99
55) Dibromochloromethane	8.48	129	10854	0.959	ug/l	93
56) 1,2-Dibromoethane	8.58	107	9352	0.965	ug/l	100
58) Tetrachloroethene	8.22	164	13396	1.076	ug/l	95
59) Chlorobenzene	9.12	112	34594	0.959	ug/l	96
60) 1,1,1,2-Tetrachloroethane	9.21	131	11377	0.931	ug/l	96
61) Pentachloroethane	11.10	117	9258	0.974	ug/l	99
62) Hexachloroethane	12.14	117	7413	0.832	ug/l	99
63) Ethyl Benzene	9.25	91	65105	0.978	ug/l	99
64) m/p-Xylenes	9.38	106	45481	1.889	ug/l	100
65) o-Xylene	9.78	106	22928	0.987	ug/l	100
66) Styrene	9.79	104	37962	0.952	ug/l	99
67) Bromoform	9.96	173	5476	0.864	ug/l	96
69) Isopropylbenzene	10.16	105	58680	0.943	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.46	83	14107	0.989	ug/l	99
71) 1,2,3-Trichloropropane	10.49	75	11286m	1.135	ug/l	
72) Bromobenzene	10.45	156	13591	0.984	ug/l	99
73) n-propylbenzene	10.58	120	16557	1.026	ug/l	89
74) 2-Chlorotoluene	10.66	126	13895	0.983	ug/l	99
75) 1,3,5-Trimethylbenzene	10.77	105	49449	0.944	ug/l	98
76) 4-Chlorotoluene	10.77	126	14083	0.982	ug/l	99
77) tert-Butylbenzene	11.10	119	45969	0.932	ug/l	98
78) 1,2,4-Trimethylbenzene	11.15	105	50419	0.940	ug/l	96
79) sec-Butylbenzene	11.32	105	67121	0.977	ug/l	97
80) Nitrobenzene	12.87	77	2430	3.781	ug/l #	93
81) p-Isopropyltoluene	11.47	119	51510	0.943	ug/l	98
82) 1,3-Dichlorobenzene	11.41	146	27708	1.002	ug/l	95
83) 1,4-Dichlorobenzene	11.51	146	26908	0.977	ug/l	98
84) n-Butylbenzene	11.89	91	55387	0.966	ug/l	96
85) 1,2-Dichlorobenzene	11.88	146	26630	1.011	ug/l	97
86) 1,2-Dibromo-3-Chloropropan	12.66	75	2144	0.934	ug/l	91
87) 1,2,4-Trichlorobenzene	13.50	180	17102	0.924	ug/l	99
88) Hexachlorobutadiene	13.69	225	9692	0.968	ug/l	98
89) Naphthalene	13.74	128	31647	0.865	ug/l	99
90) 1,2,3-Trichlorobenzene	13.99	180	16834	0.964	ug/l	98

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1421

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

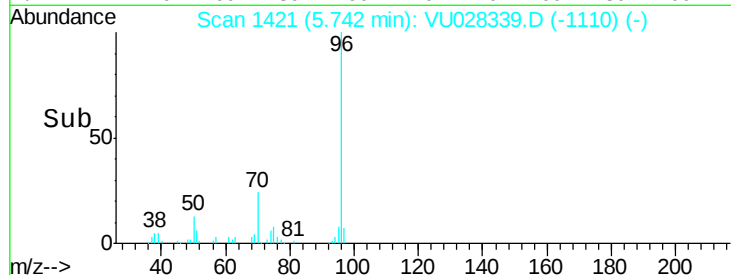
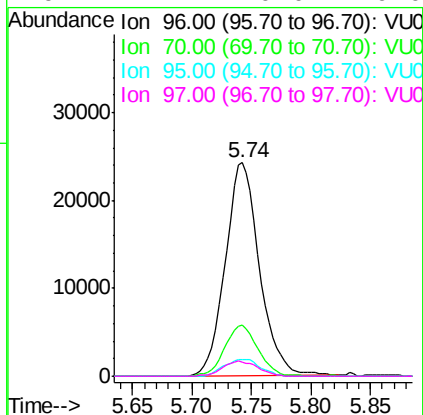
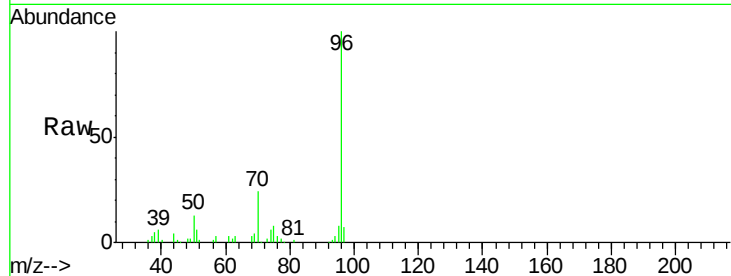
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	100		48301		
70	23.3	17.8	26.8		
95	8.3	7.6	11.4		
97	7.4	0.0	0.0		

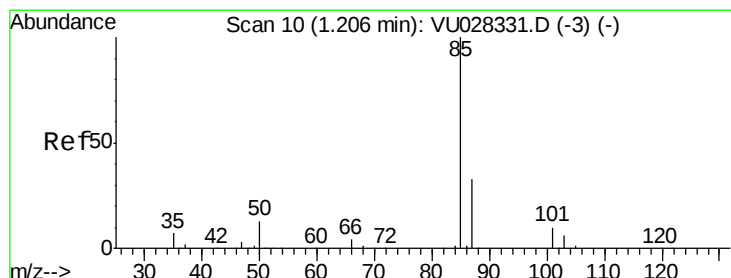
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



MMDadoda

11/30/2018 2:33:43 PM



#2

Dichlorodifluoromethane

Concen: 1.029 ug/l

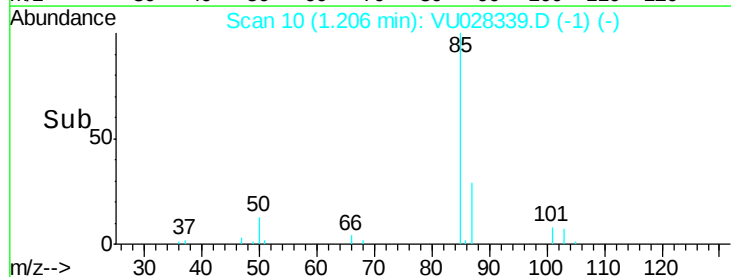
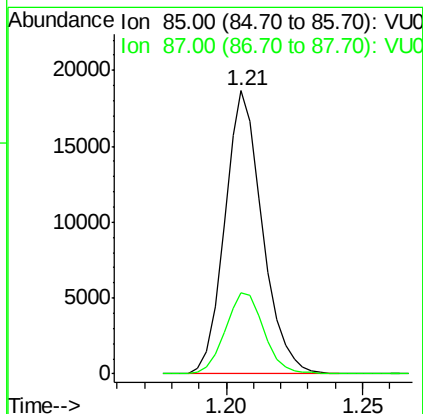
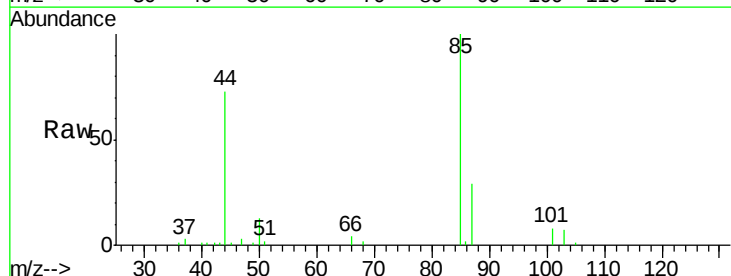
RT: 1.21 min Scan# 10

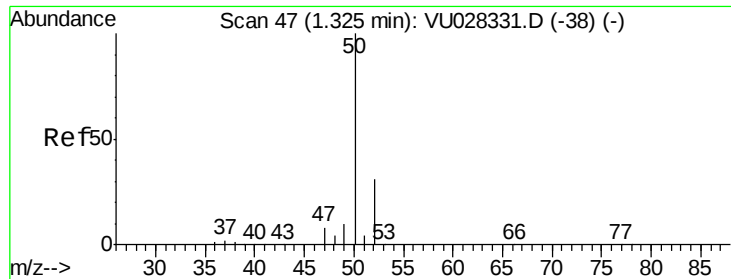
Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
85	100		17877		
87	28.8	16.3	48.8		





#3

Chloromethane

Concen: 0.930 ug/l

RT: 1.32 min Scan# 47

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 50 Resp: 27494

Ion Ratio Lower Upper

50 100

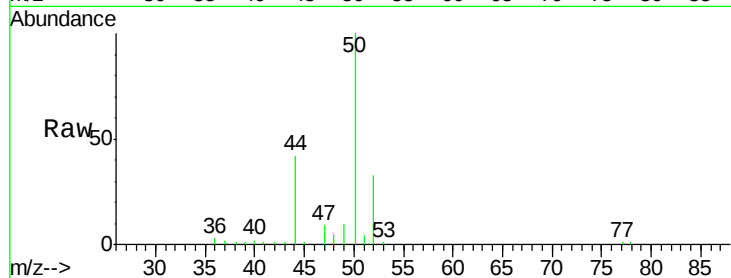
52 33.2 25.1 37.7

Manual Integrations

APPROVED

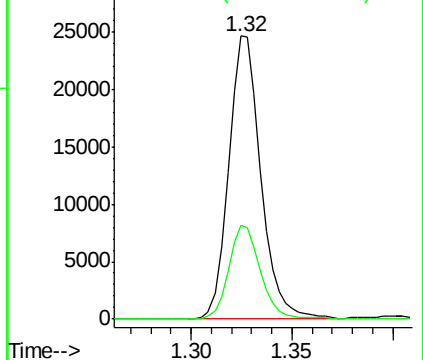
MMDadoda

11/30/2018 2:33:43 PM



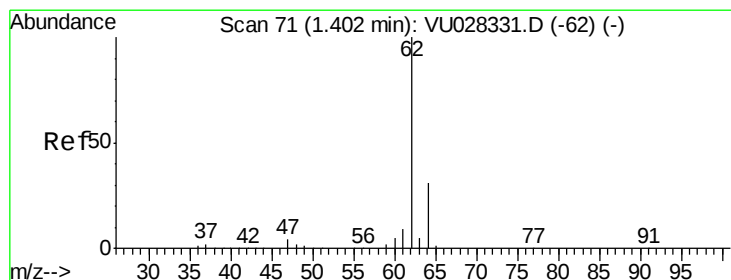
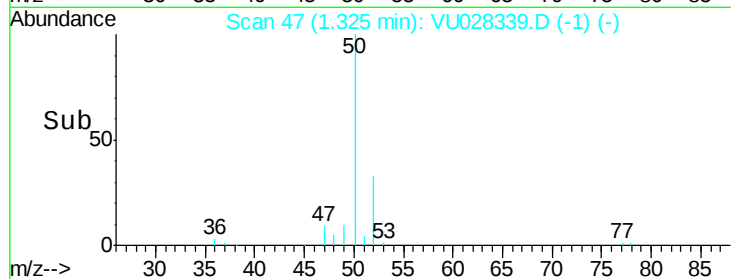
Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



MMDadoda

11/30/2018 2:33:43 PM



#4

Vinyl Chloride

Concen: 1.040 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028339.D

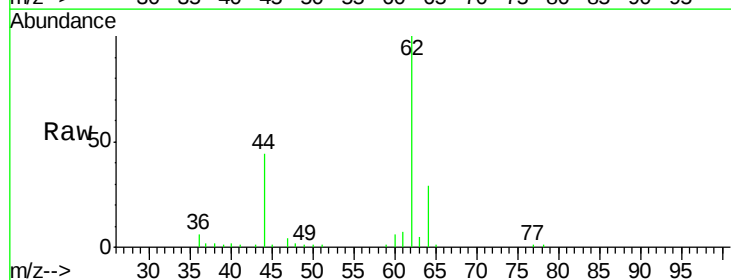
Acq: 26 Nov 2018 15:21

Tgt Ion: 62 Resp: 21050

Ion Ratio Lower Upper

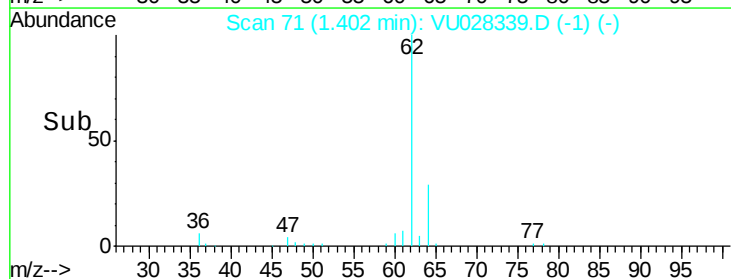
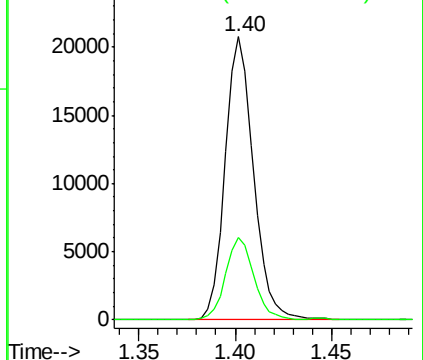
62 100

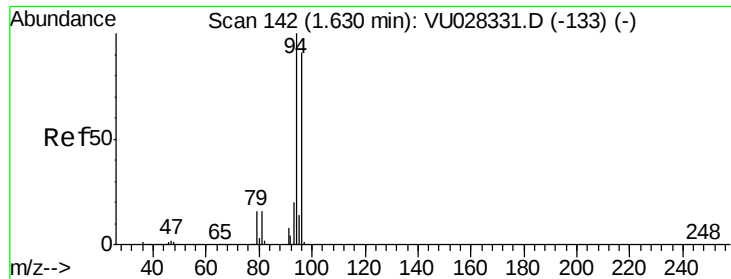
64 29.1 24.7 37.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 0.875 ug/l

RT: 1.63 min Scan# 142

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 94 Resp: 6974

Ion Ratio Lower Upper

94 100

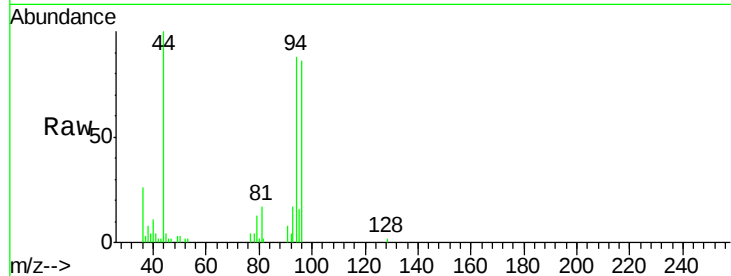
96 98.7 73.1 109.7

Manual Integrations

APPROVED

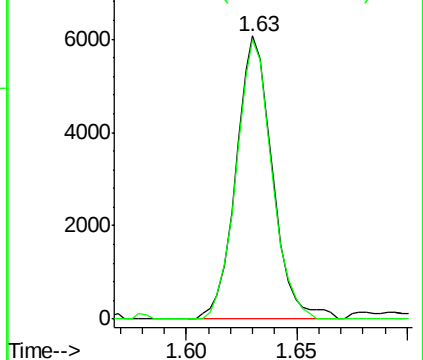
MMDadoda

11/30/2018 2:33:43 PM



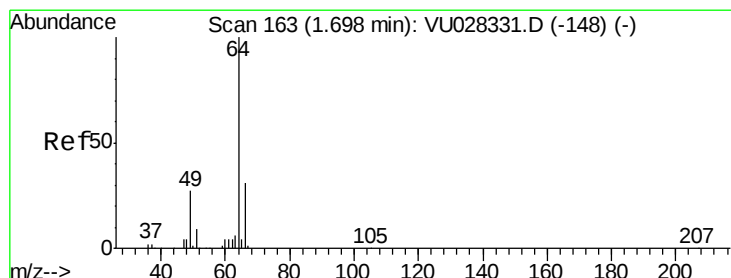
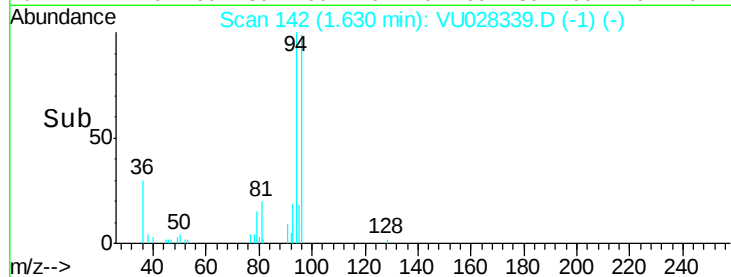
Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



MMDadoda

11/30/2018 2:33:43 PM



#6

Chloroethane

Concen: 1.003 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU028339.D

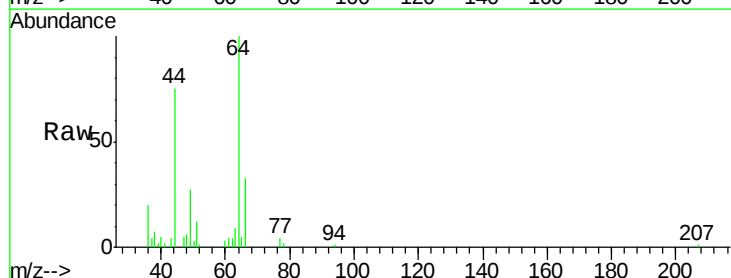
Acq: 26 Nov 2018 15:21

Tgt Ion: 64 Resp: 11849

Ion Ratio Lower Upper

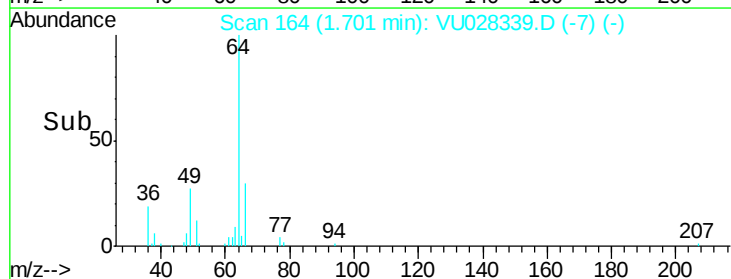
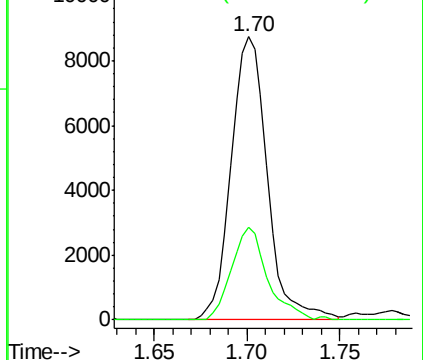
64 100

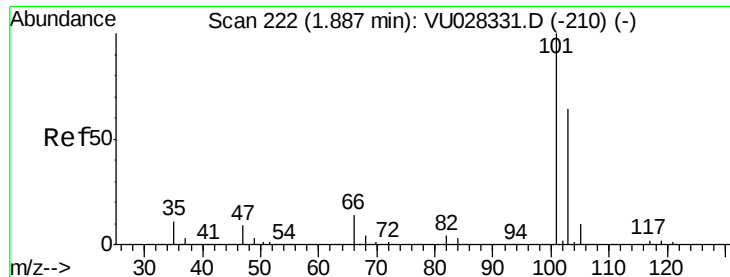
66 32.7 25.1 37.7



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

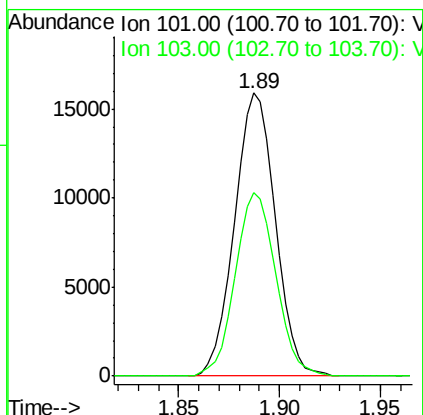
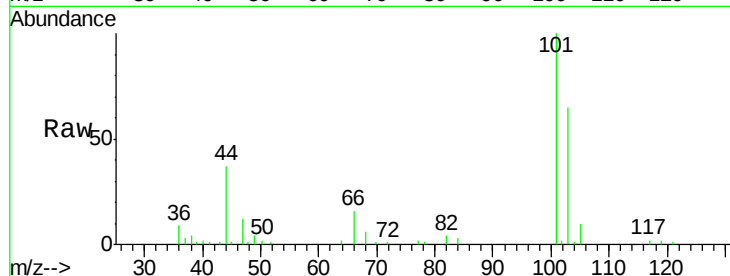
Trichlorofluoromethane
Concen: 1.020 ug/l
RT: 1.89 min Scan# 222
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion:101 Resp: 22557
Ion Ratio Lower Upper
101 100
103 65.0 51.4 77.0

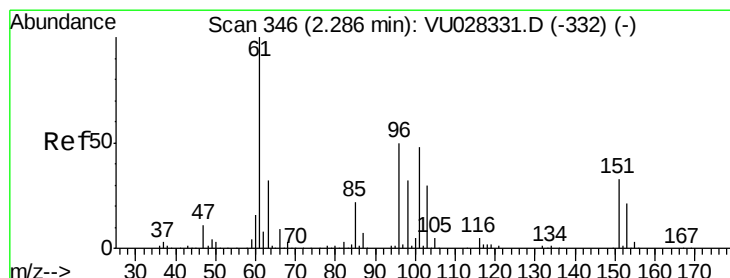
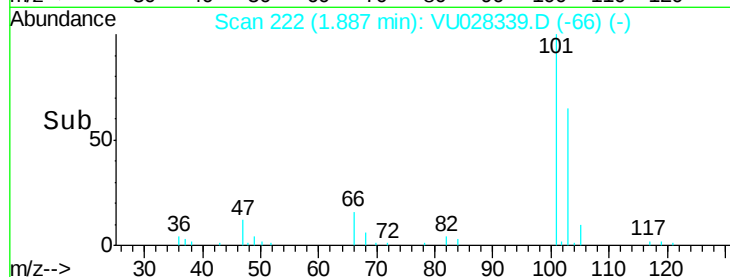
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



MMDadoda

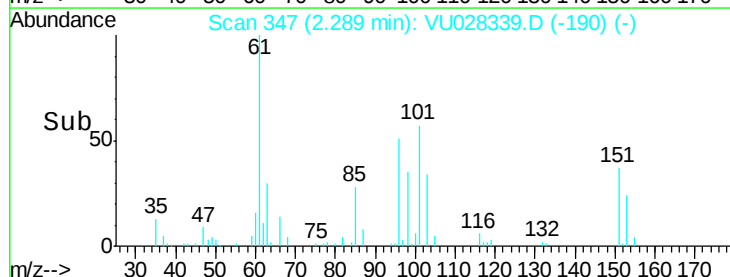
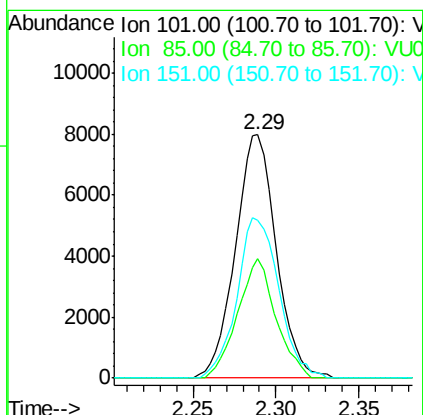
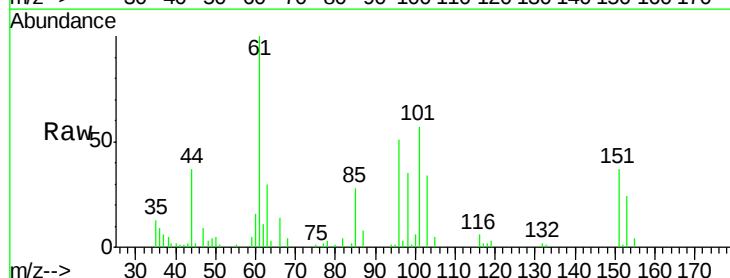
11/30/2018 2:33:43 PM

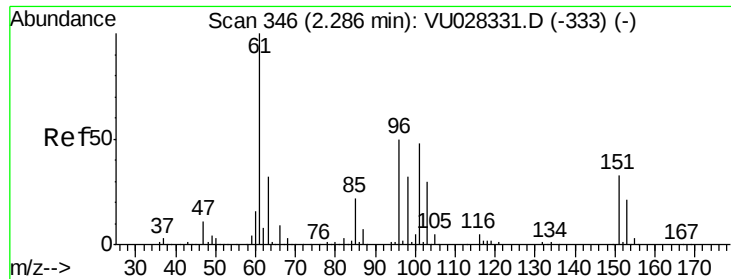


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.077 ug/l
RT: 2.29 min Scan# 347
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion:101 Resp: 13691
Ion Ratio Lower Upper
101 100
85 45.6 36.7 55.1
151 67.6 55.8 83.6





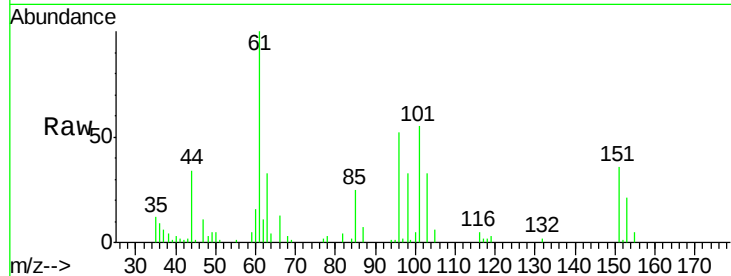
#9
 1,1-Dichloroethene
 Concen: 0.995 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	11698		
61	192.6	0.0	597.6	
98	64.3	0.0	127.6	

Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM

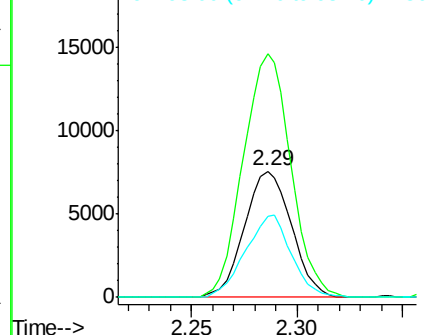


Abundance

Ion 96.00 (95.70 to 96.70): VU0

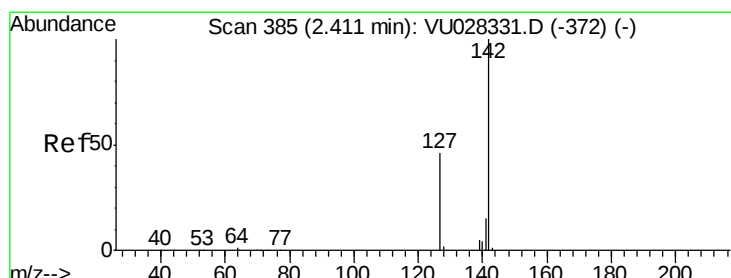
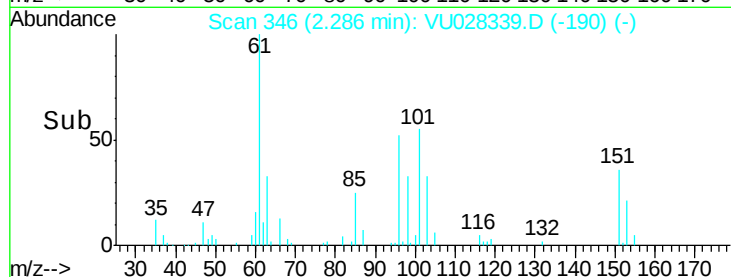
Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



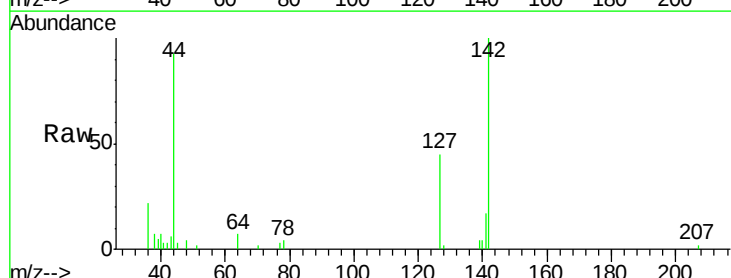
MMDadoda

11/30/2018 2:33:43 PM



#10
 Iodomethane
 Concen: 1.052 ug/l
 RT: 2.41 min Scan# 385
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

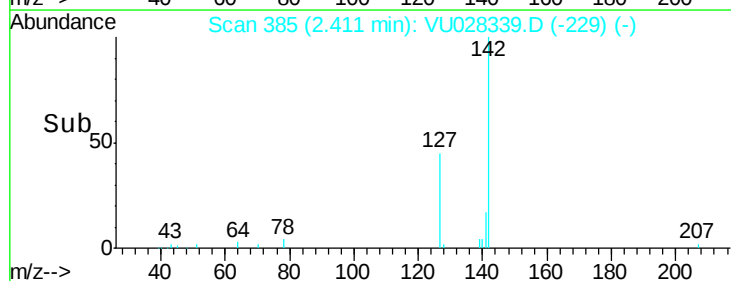
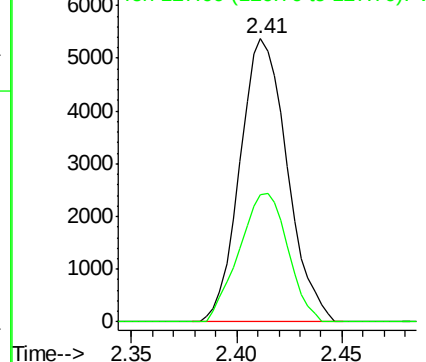
Tgt Ion	Ratio	Resp	Lower	Upper
142	100	8370		
127	46.7	36.4	54.6	

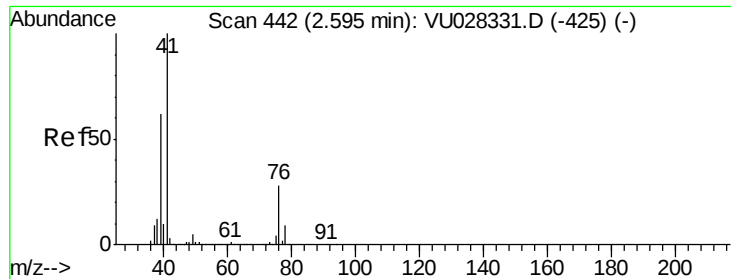


Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V





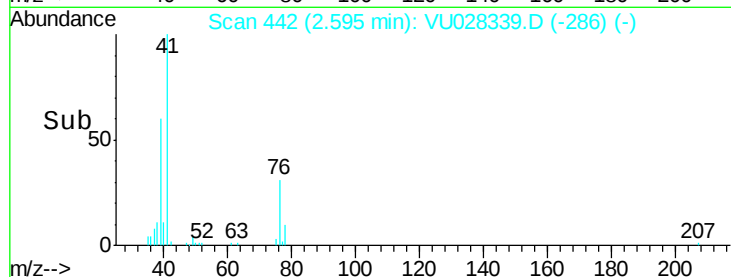
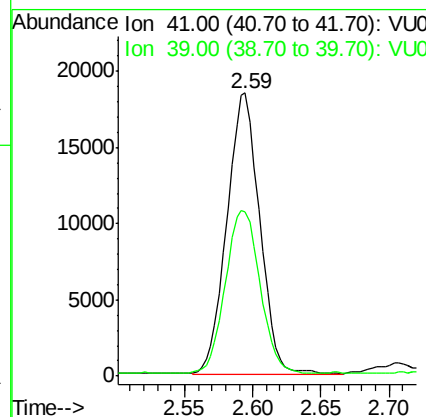
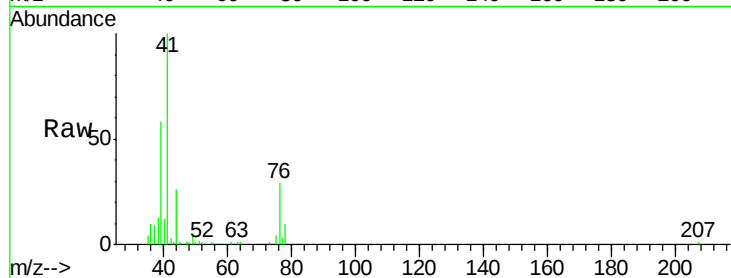
#11
 Allyl Chloride
 Concen: 1.037 ug/l
 RT: 2.59 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion: 41 Resp: 30780
 Ion Ratio Lower Upper
 41 100
 39 61.4 50.8 76.2

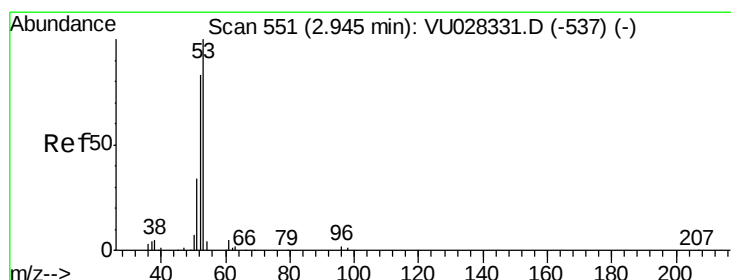
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM



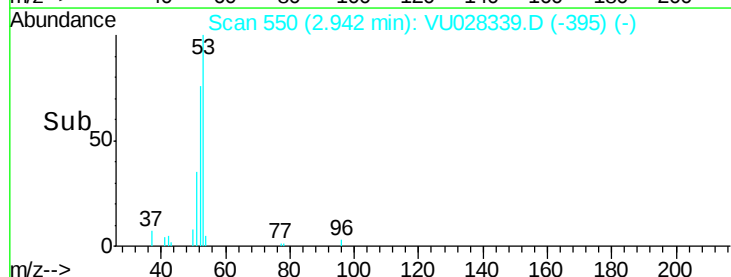
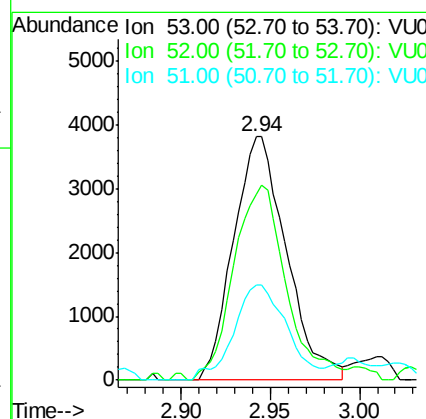
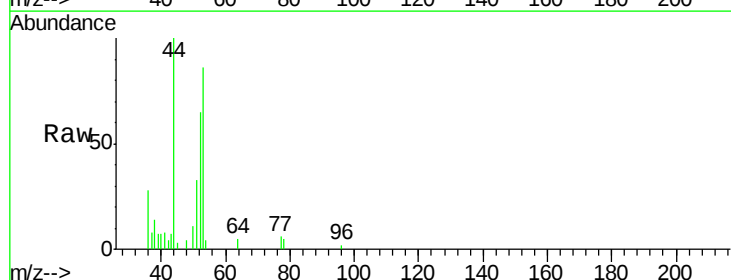
MMDadoda

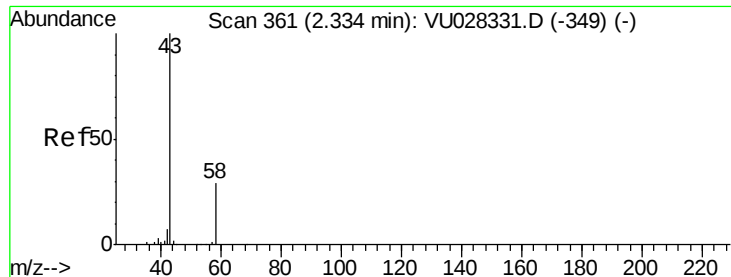
11/30/2018 2:33:43 PM



#12
 Acrylonitrile
 Concen: 2.102 ug/l
 RT: 2.94 min Scan# 550
 Delta R.T. -0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion: 53 Resp: 7873
 Ion Ratio Lower Upper
 53 100
 52 78.9 69.3 103.9
 51 39.2 27.8 41.8





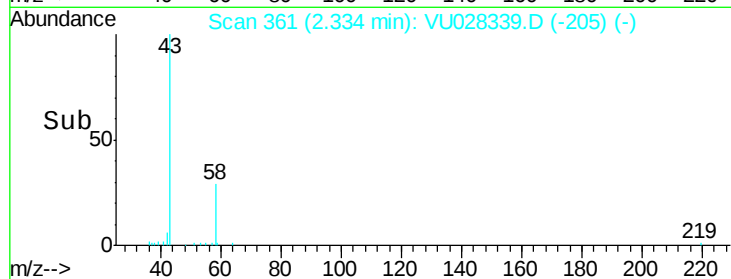
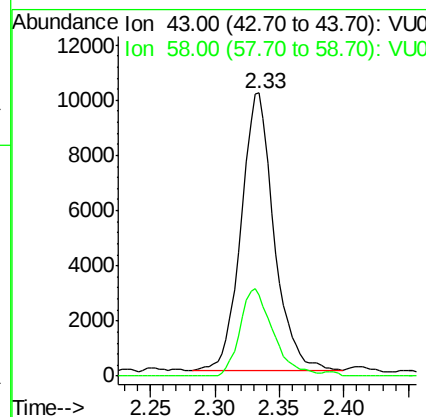
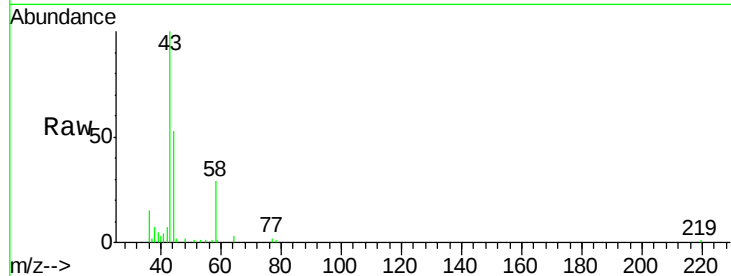
#13
Acetone
Concen: 5.168 ug/l
RT: 2.33 min Scan# 361
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 43 Resp: 17940
Ion Ratio Lower Upper
43 100
58 29.2 23.1 34.7

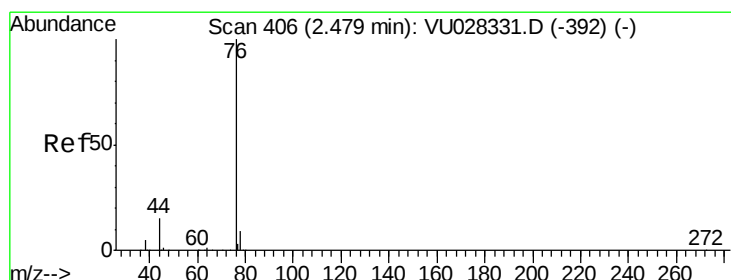
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



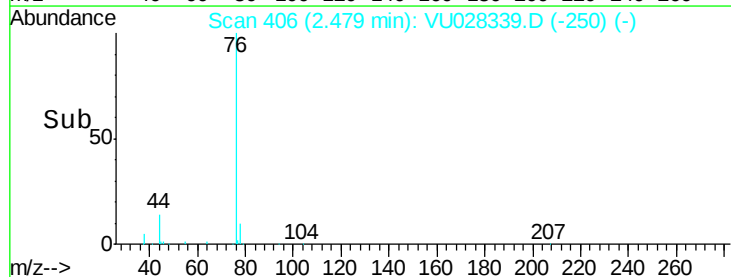
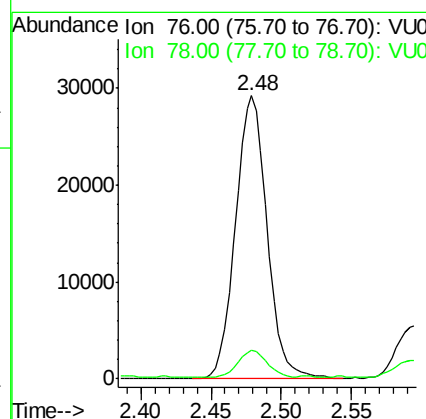
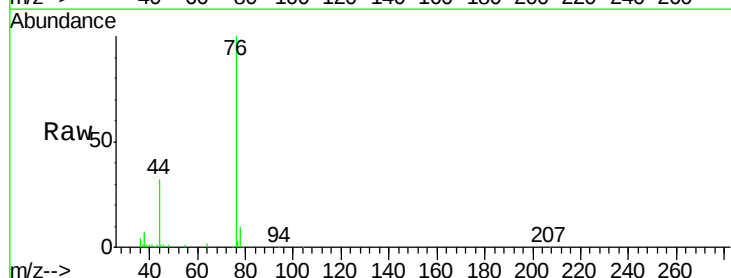
MMDadoda

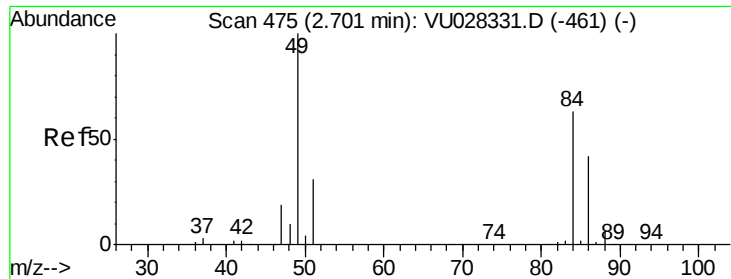
11/30/2018 2:33:43 PM



#14
Carbon Disulfide
Concen: 1.027 ug/l
RT: 2.48 min Scan# 406
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion: 76 Resp: 45887
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.2





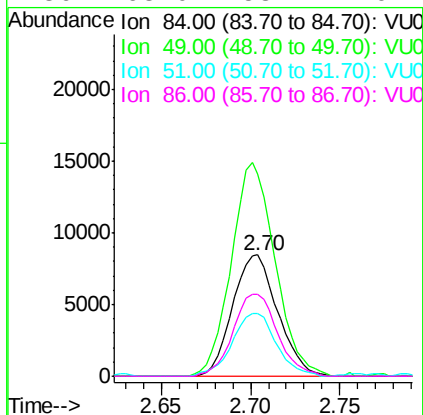
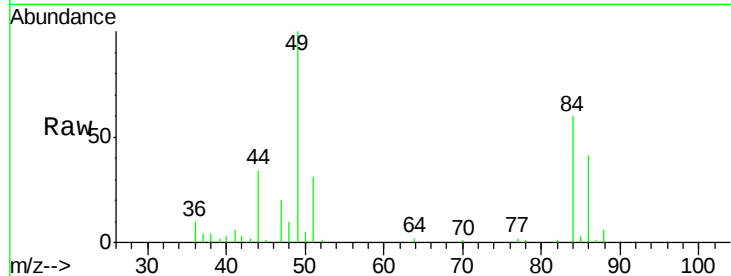
#15
Methylene Chloride
Concen: 1.042 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion:	84	Resp:	14949
Ion	Ratio	Lower	Upper
84	100		
49	166.7	127.7	191.5
51	52.2	0.0	98.2
86	68.0	53.1	79.7

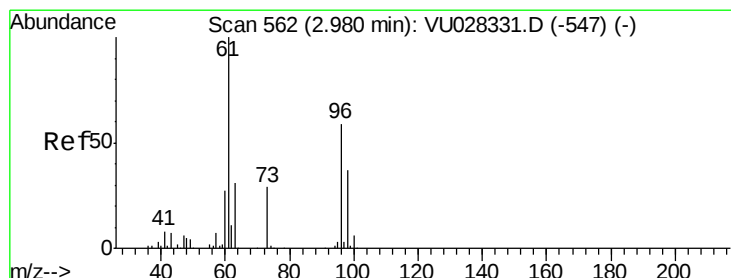
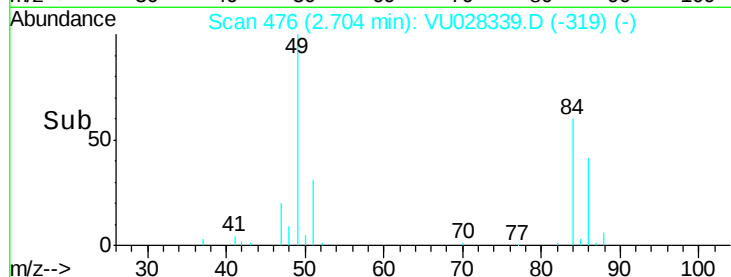
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



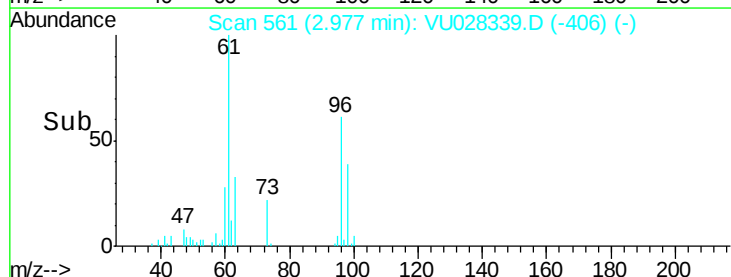
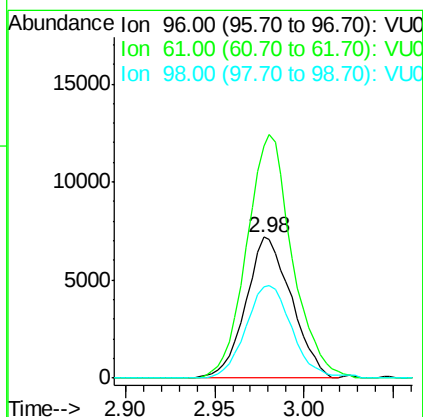
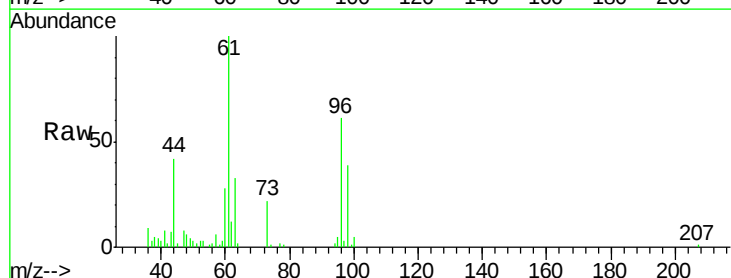
MMDadoda

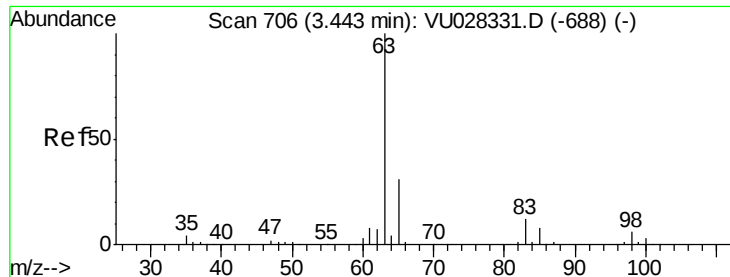
11/30/2018 2:33:43 PM



#16
trans-1,2-Dichloroethene
Concen: 0.974 ug/l
RT: 2.98 min Scan# 561
Delta R.T. -0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion:	96	Resp:	12814
Ion	Ratio	Lower	Upper
96	100		
61	165.0	136.4	204.6
98	64.8	49.8	74.8





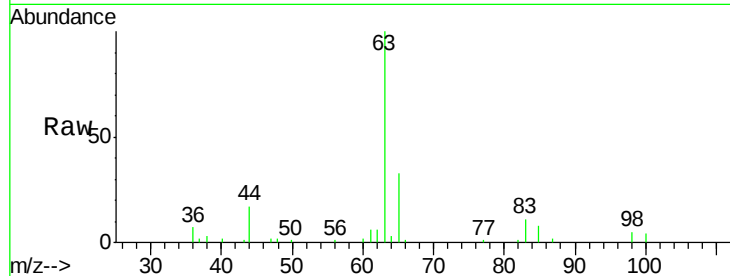
#17
 1,1-Dichloroethane
 Concen: 1.027 ug/l
 RT: 3.44 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

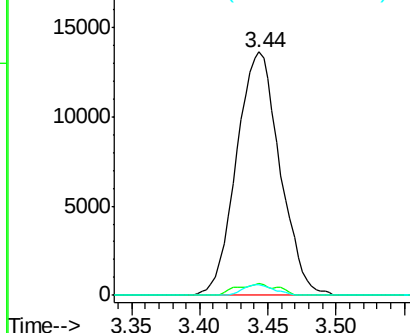
Tgt Ion	Ratio	Resp	Lower	Upper
63	100	30139		
98	4.6		3.0	9.0
100	4.4		1.8	5.3

Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM

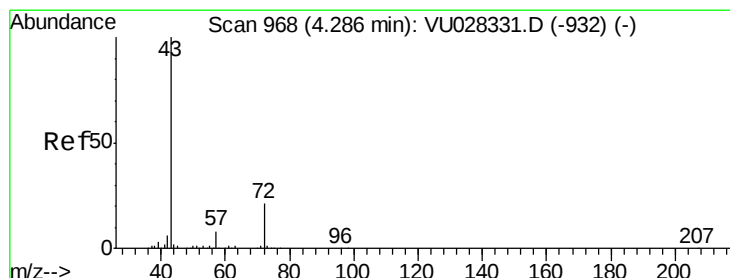
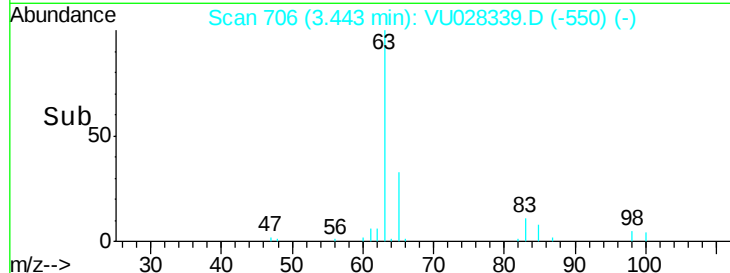


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0



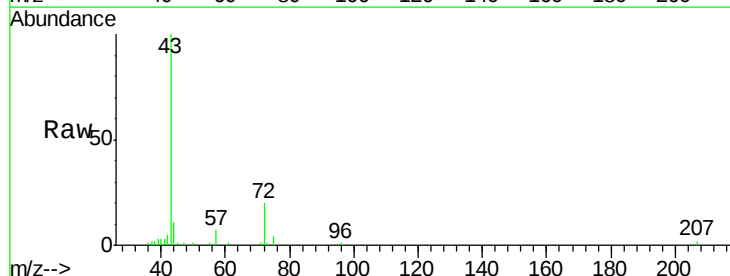
MMDadoda

11/30/2018 2:33:43 PM

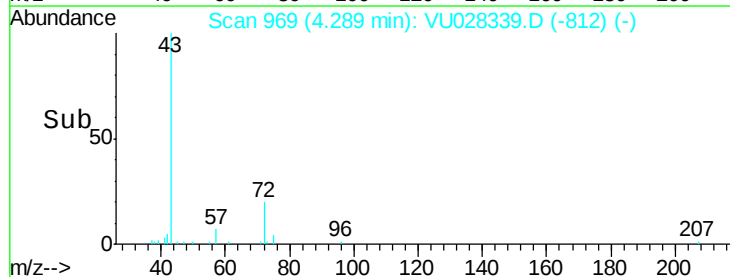
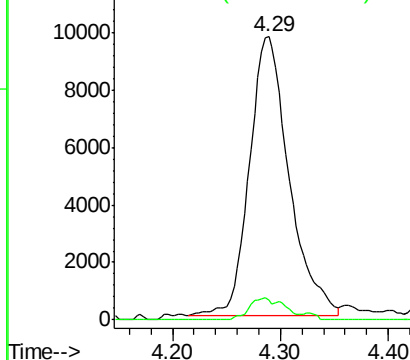


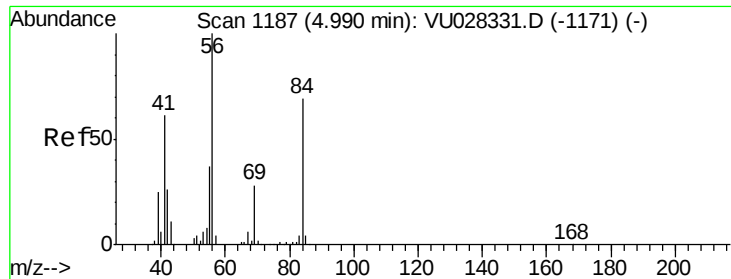
#18
 2-Butanone
 Concen: 4.804 ug/l
 RT: 4.29 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	24918		
57	6.9		0.0	15.0



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





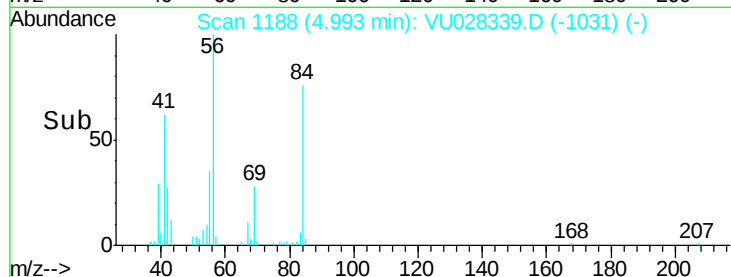
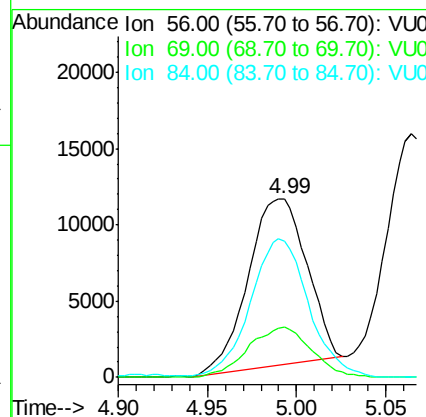
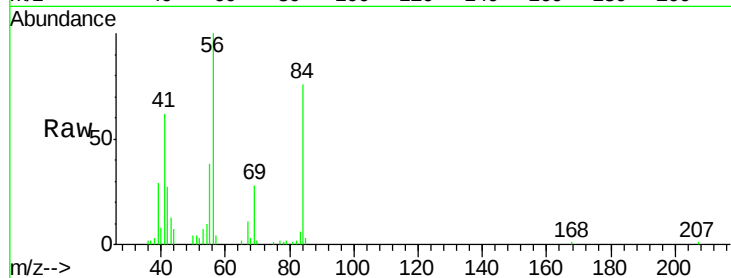
#19
Cyclohexane
Concen: 0.993 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.2	25.0	37.6
84	80.8	62.6	94.0

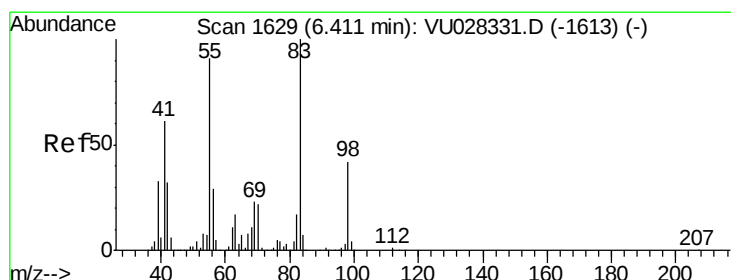
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



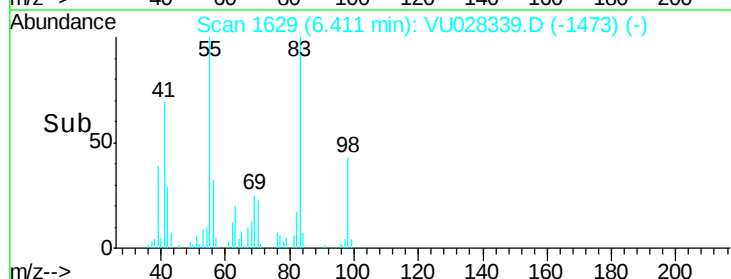
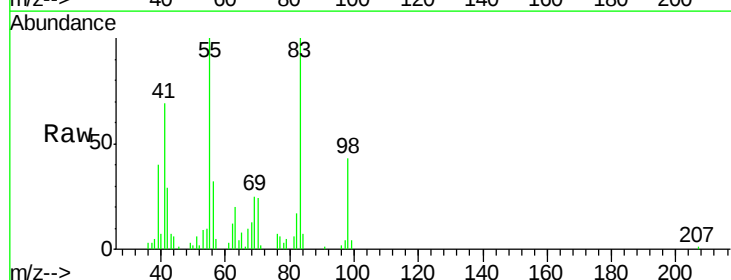
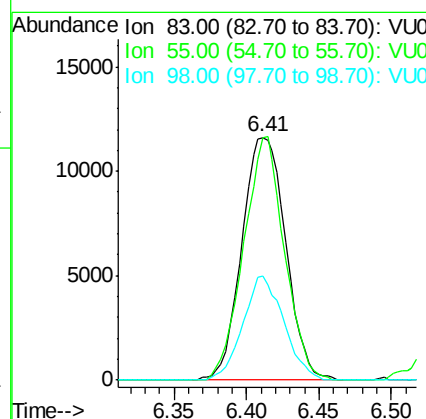
MMDadoda

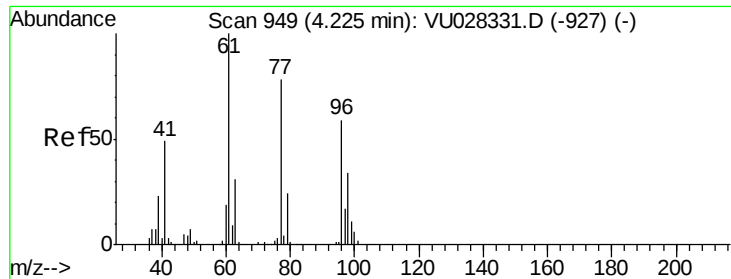
11/30/2018 2:33:43 PM



#20
Methylcyclohexane
Concen: 0.980 ug/l
RT: 6.41 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
83	100		
55	93.0	72.6	108.8
98	39.9	33.8	50.8





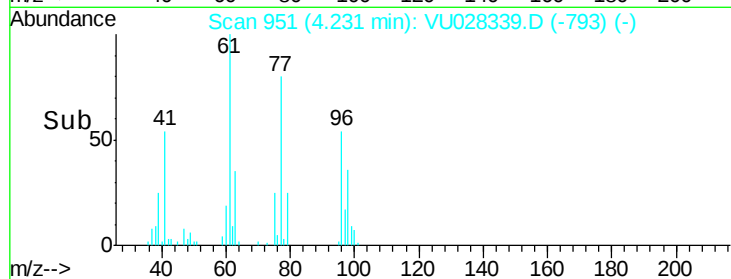
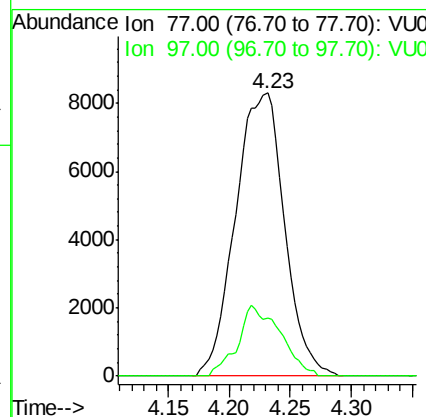
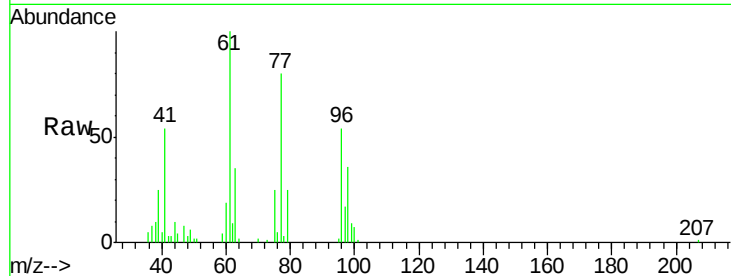
#21
 2,2-Dichloropropane
 Concen: 0.981 ug/l
 RT: 4.23 min Scan# 951
 Delta R.T. 0.01 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion: 77 Resp: 23102
 Ion Ratio Lower Upper
 77 100
 97 21.8 17.4 26.2

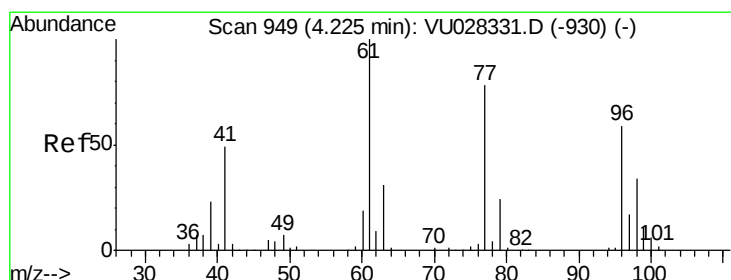
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM



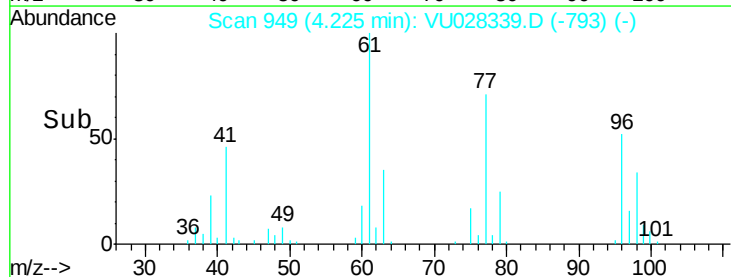
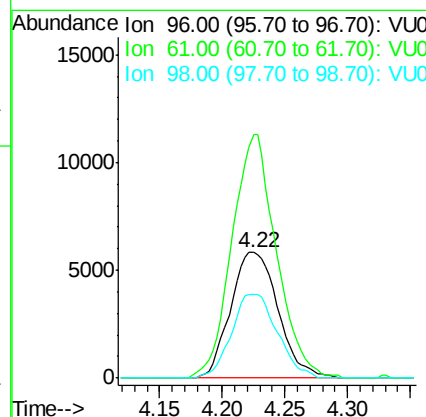
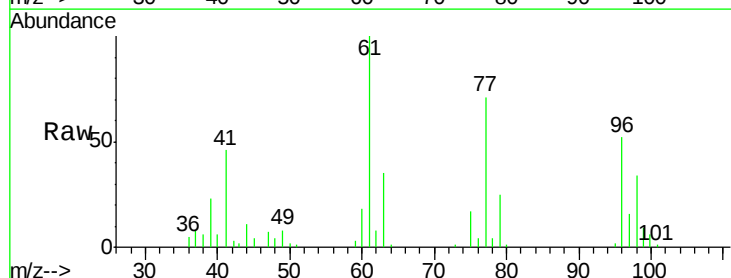
MMDadoda

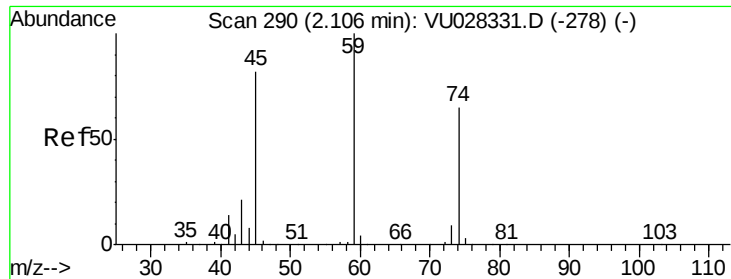
11/30/2018 2:33:43 PM



#22
 cis-1,2-Dichloroethene
 Concen: 0.999 ug/l
 RT: 4.22 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion: 96 Resp: 15385
 Ion Ratio Lower Upper
 96 100
 61 180.2 0.0 423.0
 98 64.0 30.3 91.0





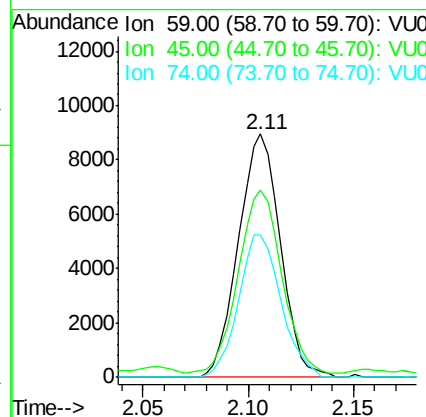
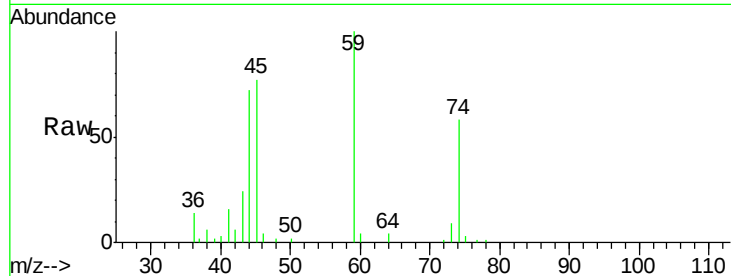
#23
Diethyl Ether
Concen: 1.049 ug/l
RT: 2.11 min Scan# 290
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
59	100		
45	79.0	66.4	99.6
74	59.3	52.2	78.4

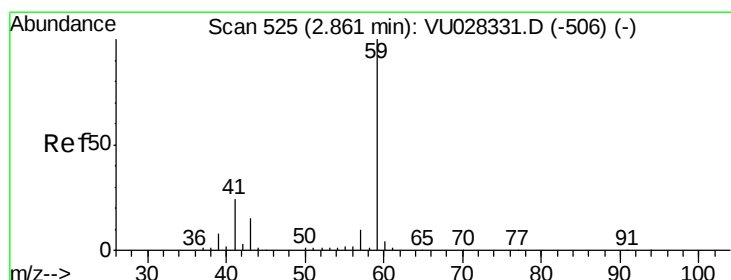
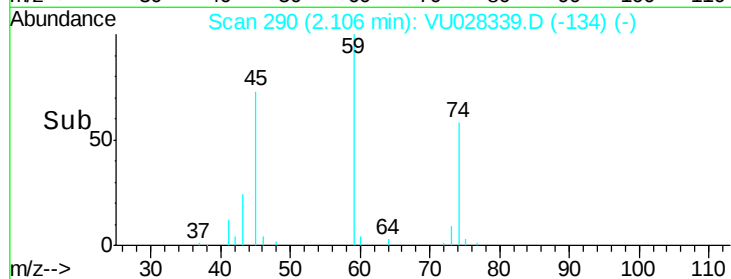
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



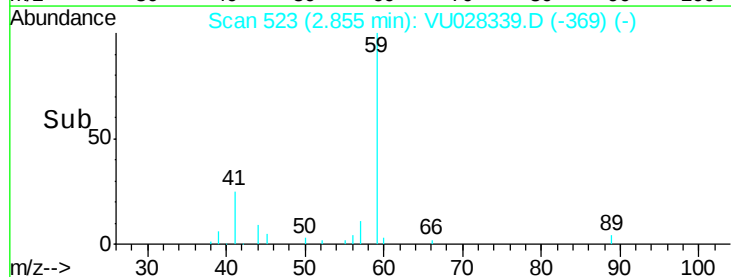
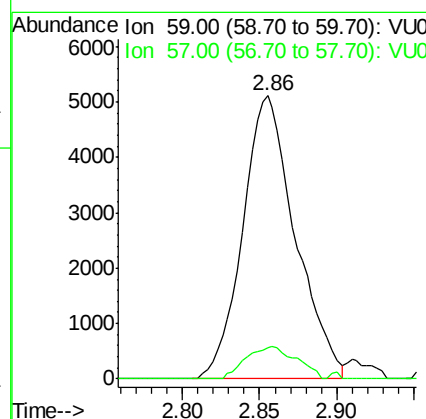
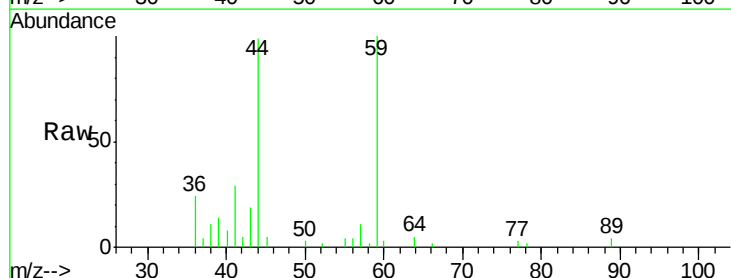
MMDadoda

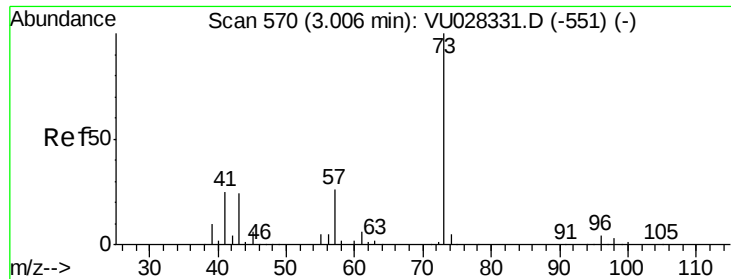
11/30/2018 2:33:43 PM



#24
tert-Butyl Alcohol
Concen: 10.216 ug/l
RT: 2.86 min Scan# 523
Delta R.T. -0.01 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.2	12.4





#25

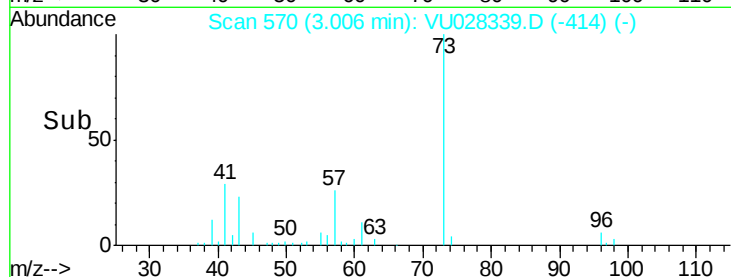
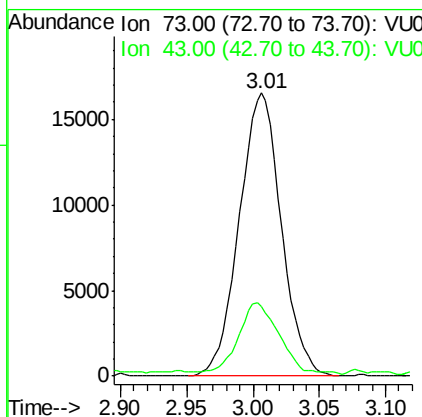
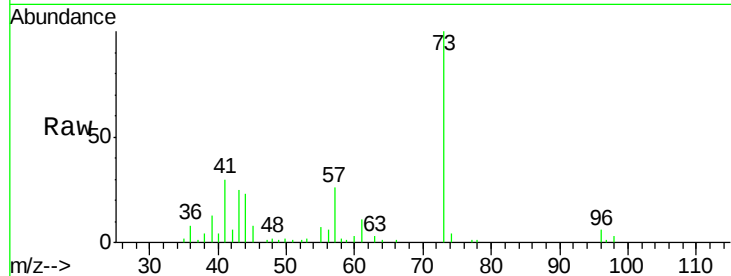
Methyl tert-Butyl Ether
Concen: 1.041 ug/l
RT: 3.01 min Scan# 570
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 73 Resp: 36366
Ion Ratio Lower Upper
73 100
43 24.4 18.5 27.7

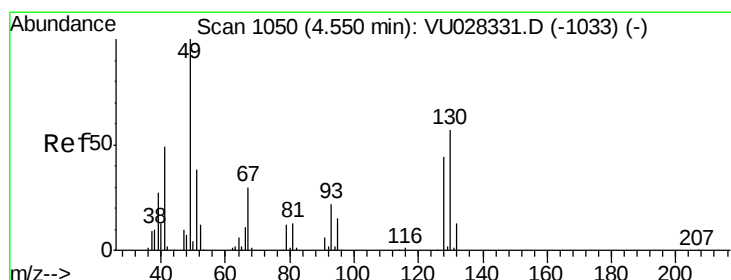
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



MMDadoda

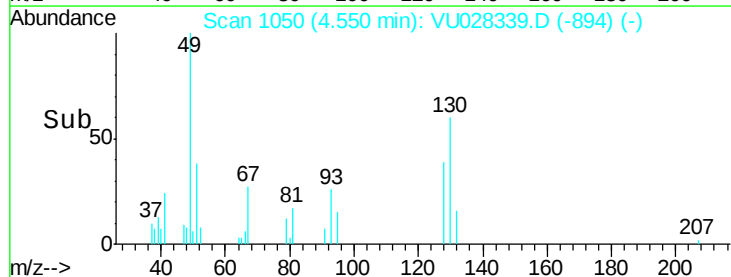
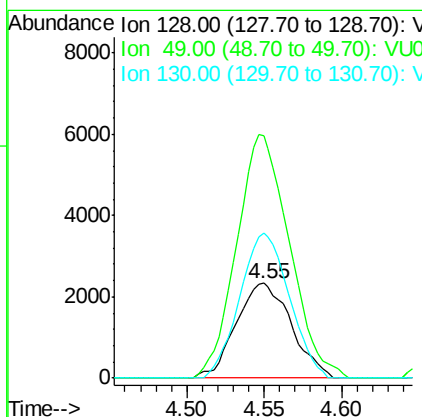
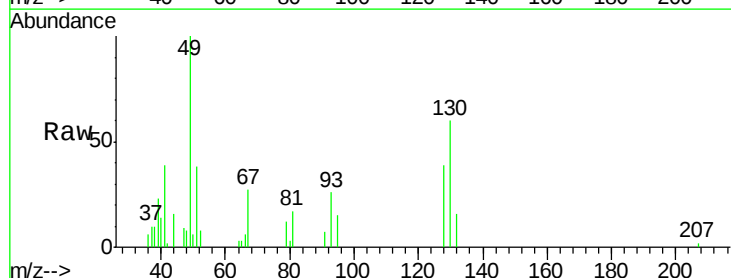
11/30/2018 2:33:43 PM

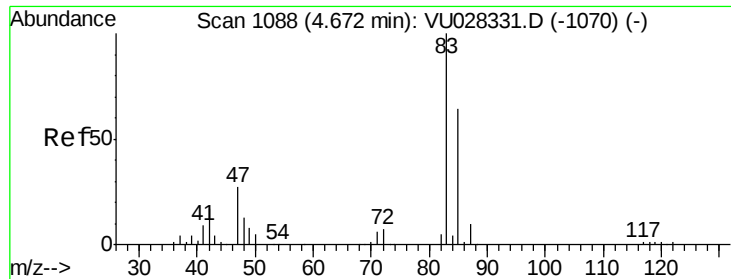


#26

Bromochloromethane
Concen: 0.983 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion: 128 Resp: 5773
Ion Ratio Lower Upper
128 100
49 245.8 0.0 457.6
130 137.7 101.4 152.2





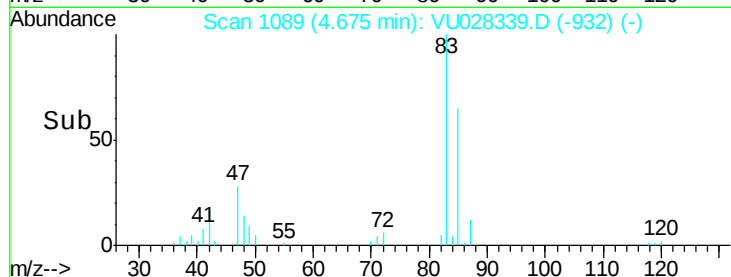
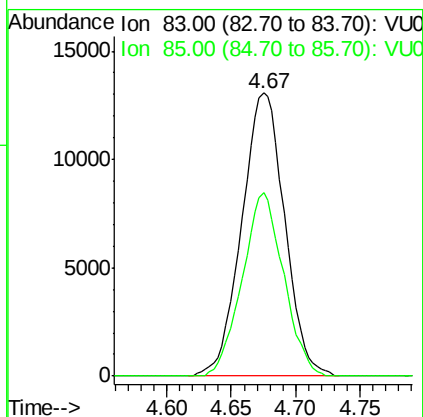
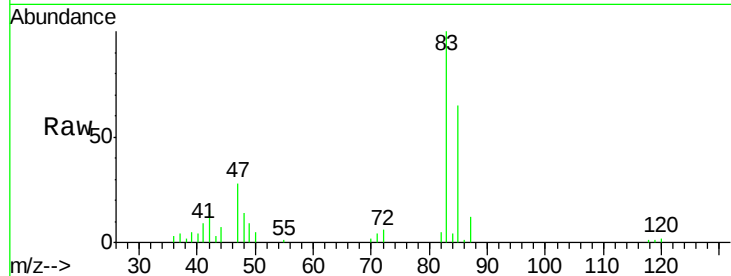
#27
Chloroform
Concen: 1.072 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 83 Resp: 30342
Ion Ratio Lower Upper
83 100
85 64.8 0.0 128.0

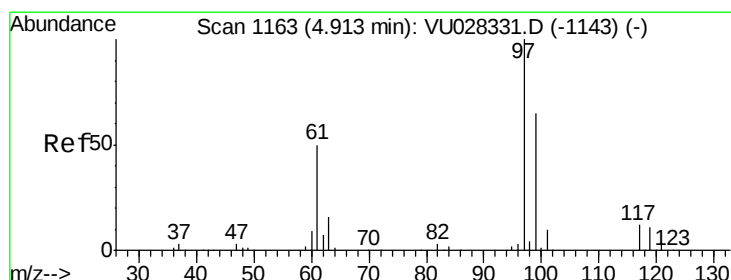
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



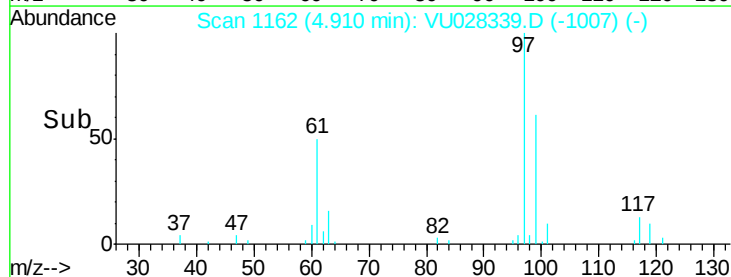
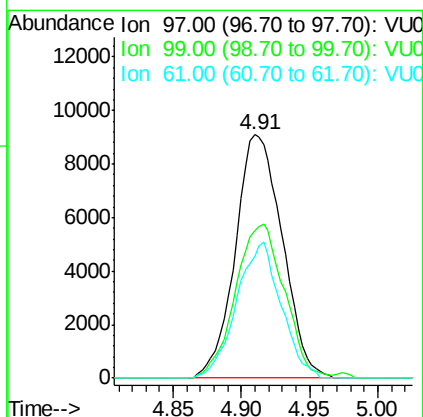
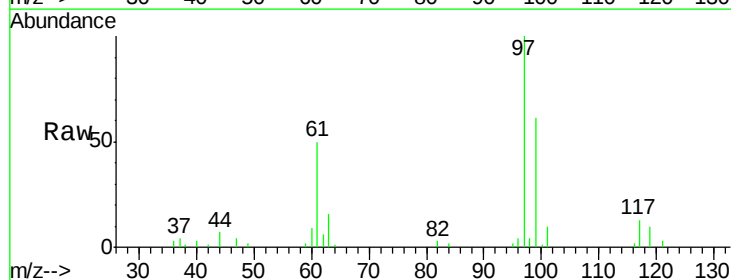
MMDadoda

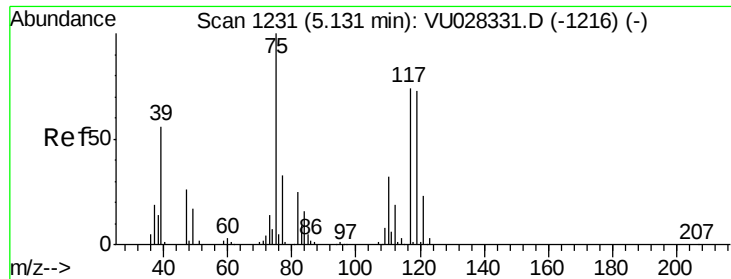
11/30/2018 2:33:43 PM



#28
1,1,1-Trichloroethane
Concen: 0.986 ug/l
RT: 4.91 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion: 97 Resp: 21787
Ion Ratio Lower Upper
97 100
99 65.9 32.2 96.6
61 52.8 24.9 74.7





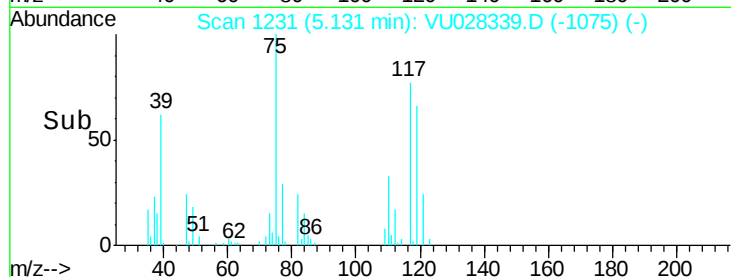
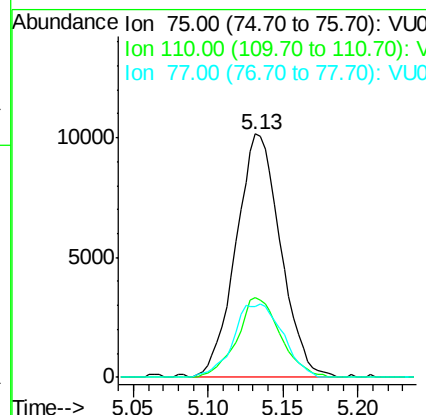
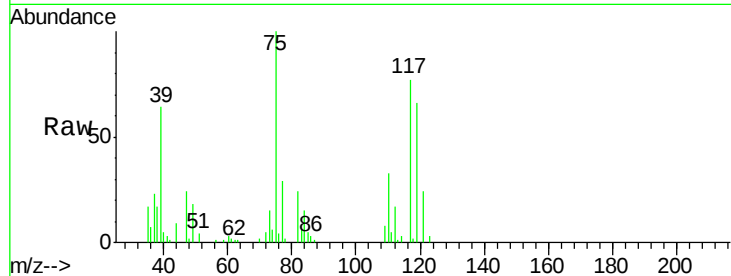
#29
1,1-Dichloropropene
Concen: 0.995 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.6	15.8	47.3
77	33.2	25.4	38.0

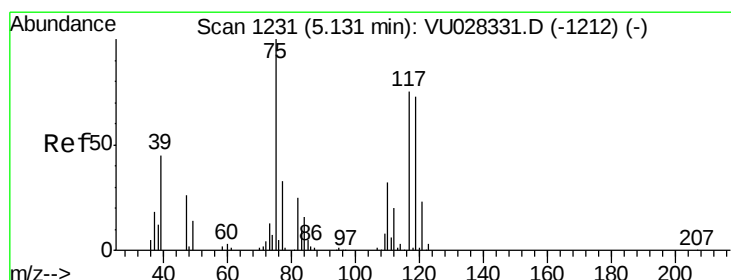
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



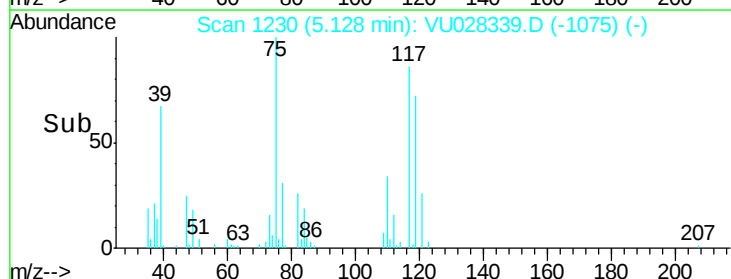
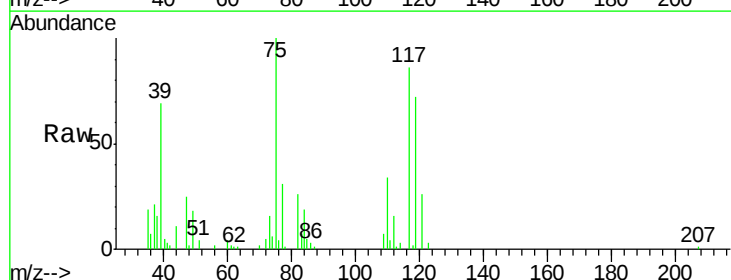
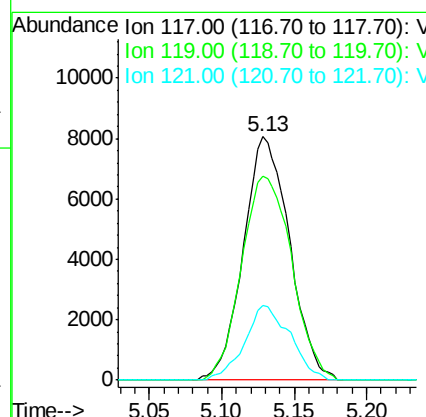
MMDadoda

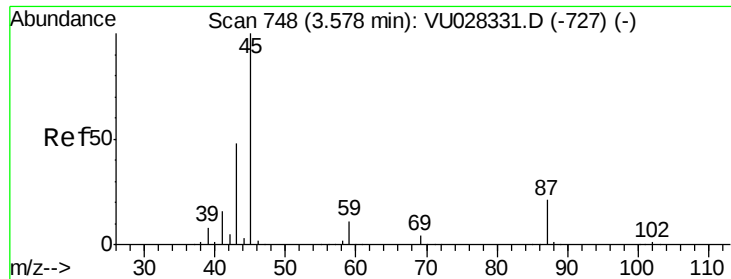
11/30/2018 2:33:43 PM



#30
Carbon Tetrachloride
Concen: 0.998 ug/l
RT: 5.13 min Scan# 1230
Delta R.T. -0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	83.5	78.2	117.4
121	30.7	24.7	37.1





#31

Isopropyl Ether

Concen: 1.014 ug/l

RT: 3.58 min Scan# 748

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 45 Resp: 53255

Ion Ratio Lower Upper

45 100

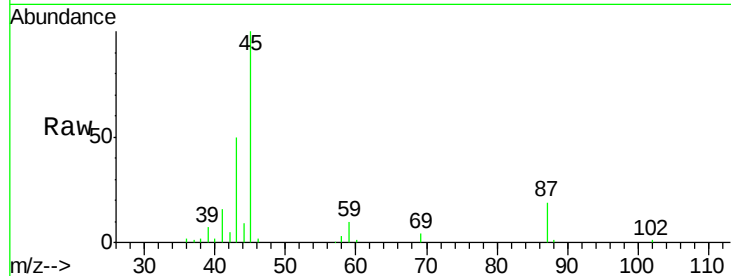
43 51.2 24.2 72.6

Manual Integrations

APPROVED

MMDadoda

11/30/2018 2:33:43 PM



Abundance Ion 45.00 (44.70 to 45.70): VU028339.D (-592) (-)

Ion 43.00 (42.70 to 43.70): VU028339.D (-592) (-)

Time-->

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

3.58

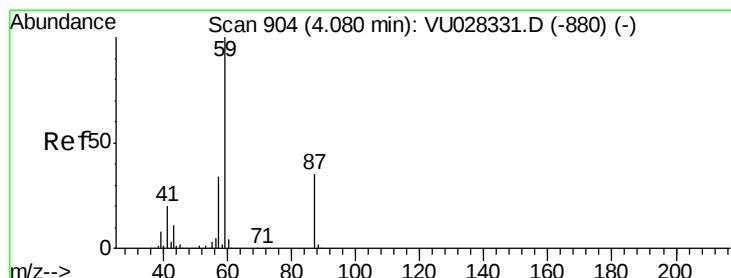
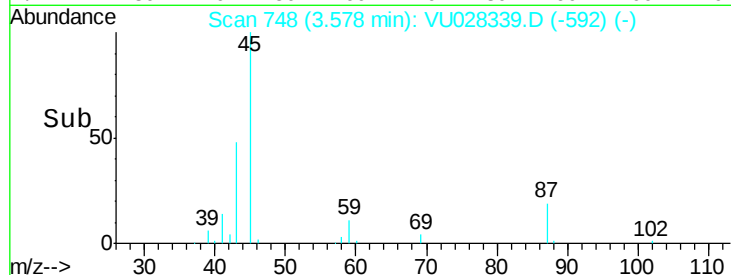
3.58

3.58

3.58

3.58

3.58



#32

Ethyl-t-butyl ether

Concen: 0.997 ug/l

RT: 4.08 min Scan# 904

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Tgt Ion: 59 Resp: 43150

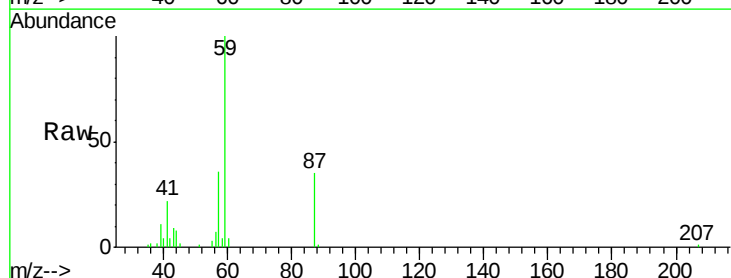
Ion Ratio Lower Upper

59 100

87 35.2 28.2 42.4

MMDadoda

11/30/2018 2:33:43 PM



Abundance Ion 59.00 (58.70 to 59.70): VU028339.D (-748) (-)

Ion 87.00 (86.70 to 87.70): VU028339.D (-748) (-)

Time-->

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

4.08

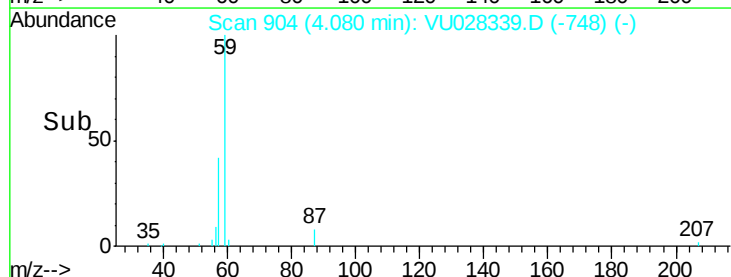
4.08

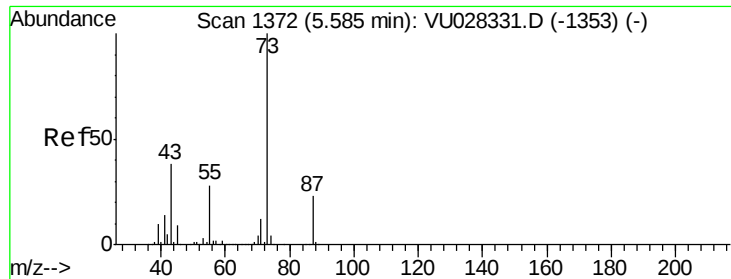
4.08

4.08

4.08

4.08





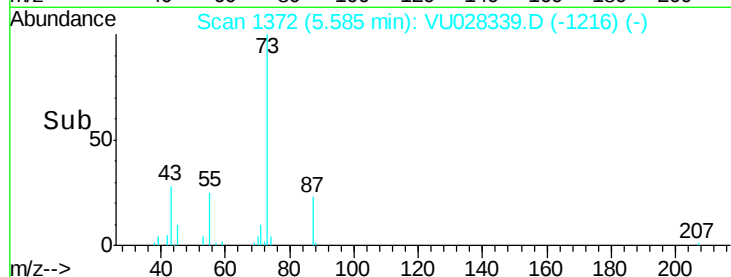
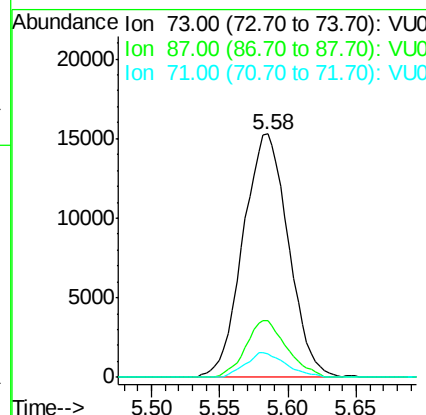
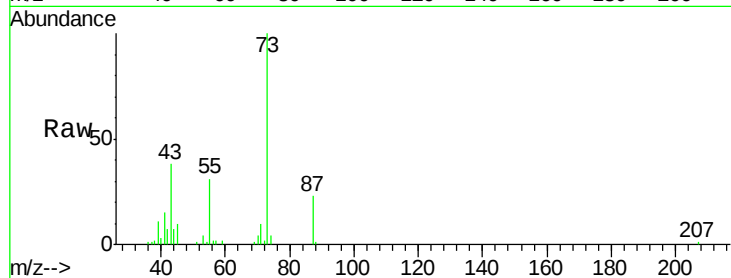
#33
Tert-Amyl methyl ether
Concen: 0.983 ug/l
RT: 5.58 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
73	100		
87	21.0	17.6	26.4
71	9.2	9.2	13.8#

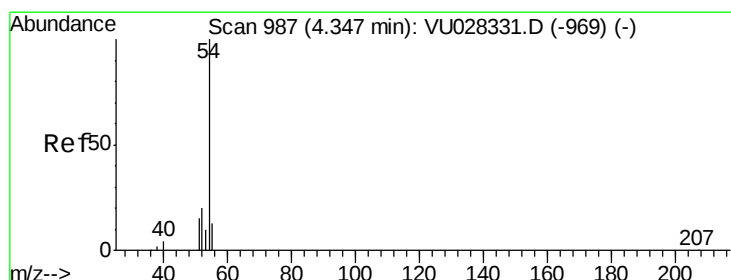
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



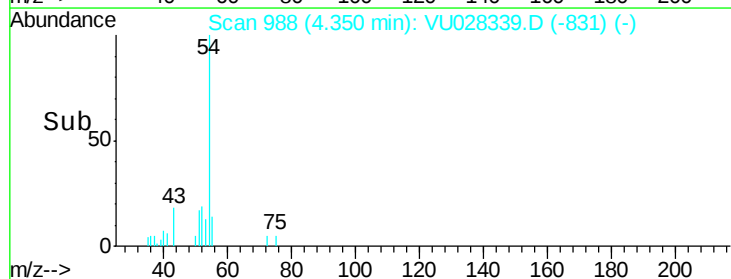
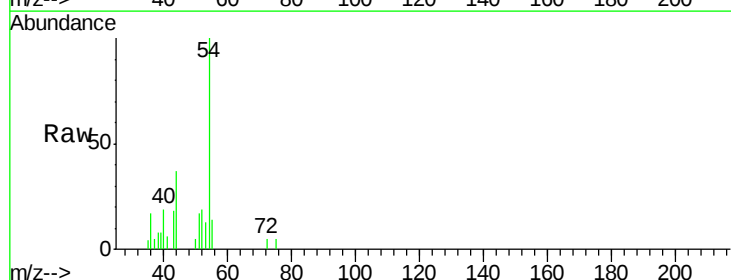
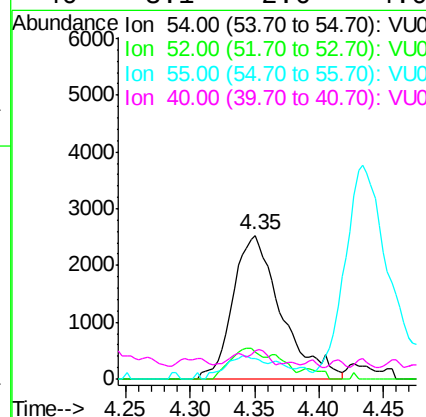
MMDadoda

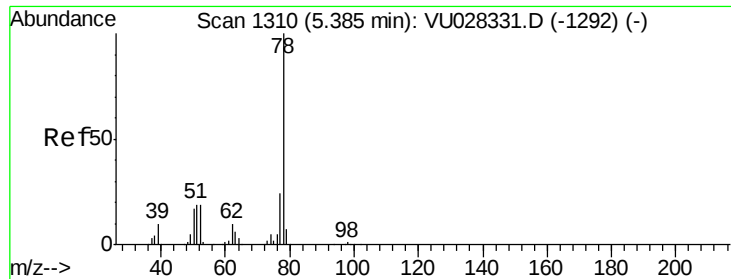
11/30/2018 2:33:43 PM



#34
Propionitrile
Concen: 5.034 ug/l
RT: 4.35 min Scan# 988
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
54	100		
52	0.0	16.6	25.0#
55	0.0	12.9	19.3#
40	3.1	2.6	4.0





#35

Benzene

Concen: 1.004 ug/l

RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 78 Resp: 62677

Ion Ratio Lower Upper

78 100

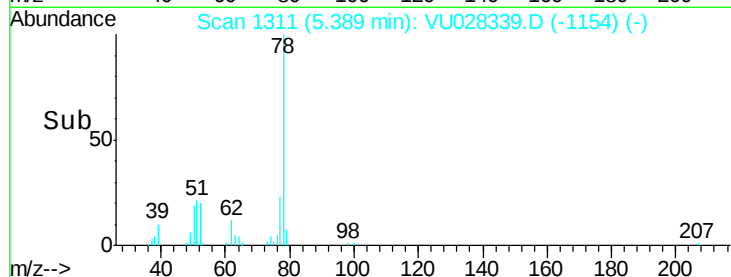
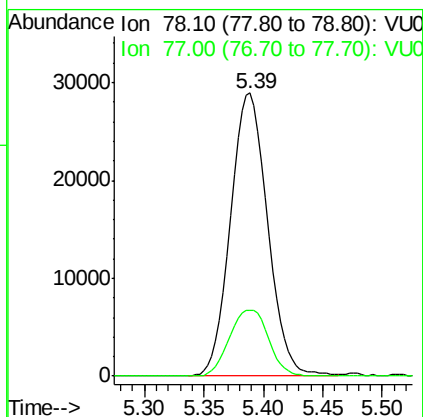
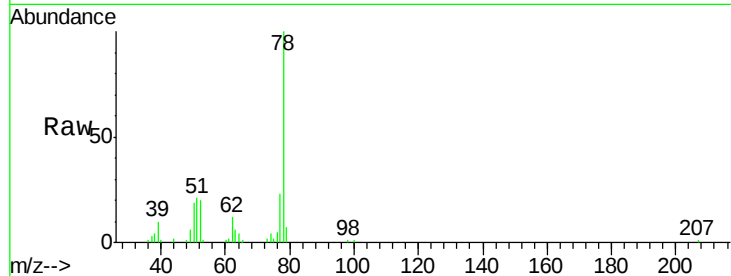
77 23.3 19.5 29.3

Manual Integrations

APPROVED

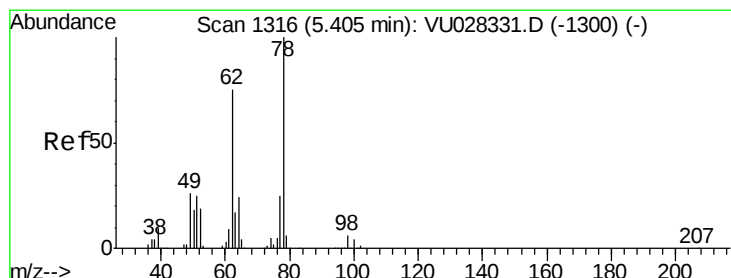
MMDadoda

11/30/2018 2:33:43 PM



MMDadoda

11/30/2018 2:33:43 PM



#36

1,2-Dichloroethane

Concen: 1.020 ug/l

RT: 5.41 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VU028339.D

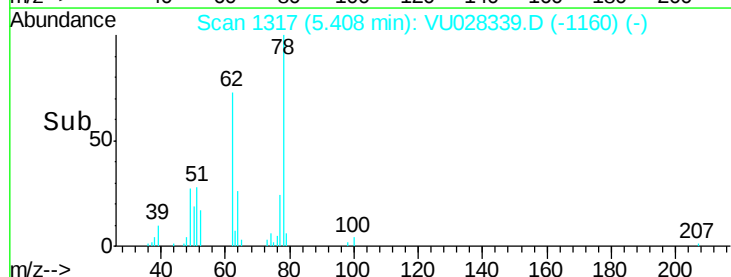
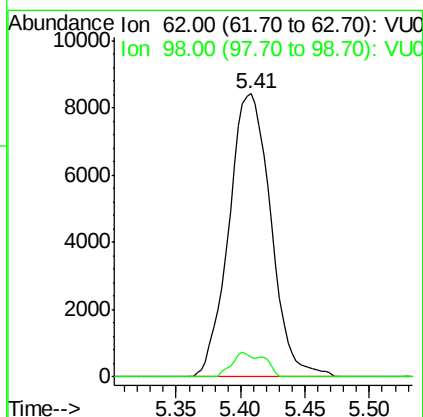
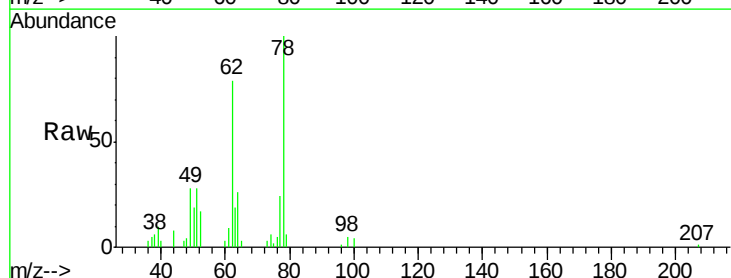
Acq: 26 Nov 2018 15:21

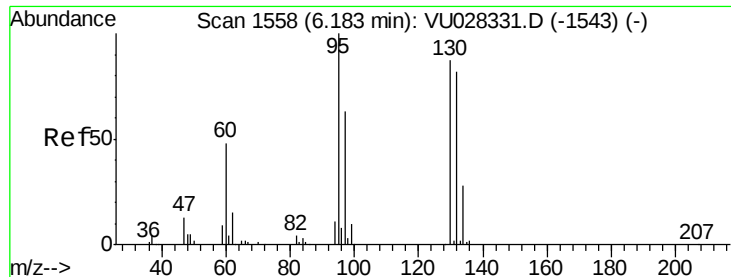
Tgt Ion: 62 Resp: 19042

Ion Ratio Lower Upper

62 100

98 4.4 6.0 9.0#





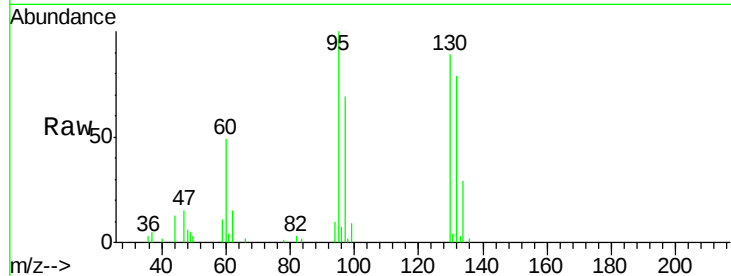
#37
 Trichloroethene
 Concen: 1.012 ug/l
 RT: 6.18 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

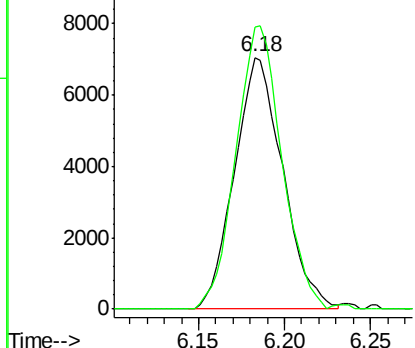
Tgt Ion: 130 Resp: 13749
 Ion Ratio Lower Upper
 130 100
 95 112.0 91.5 137.3

Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM

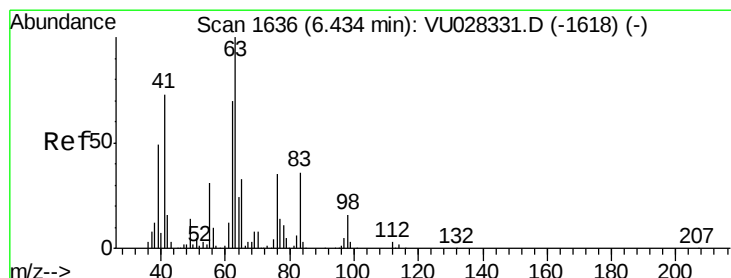
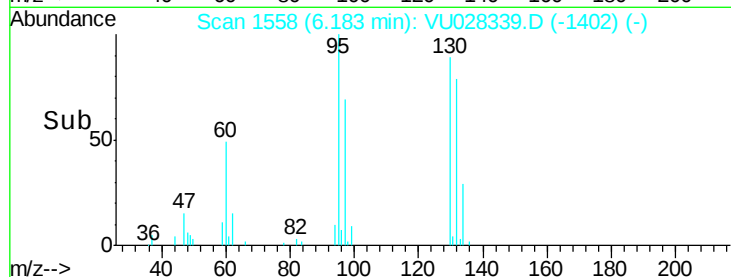


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VU0



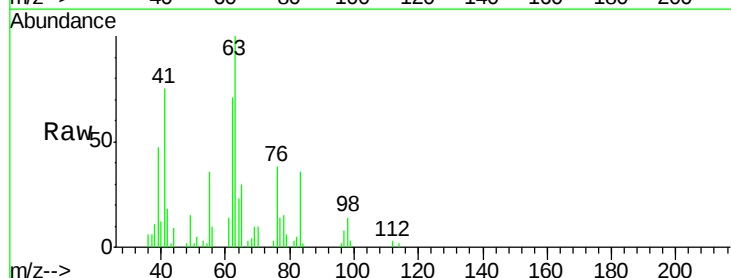
MMDadoda

11/30/2018 2:33:43 PM

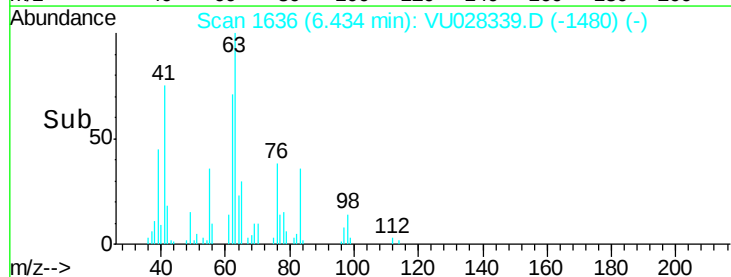
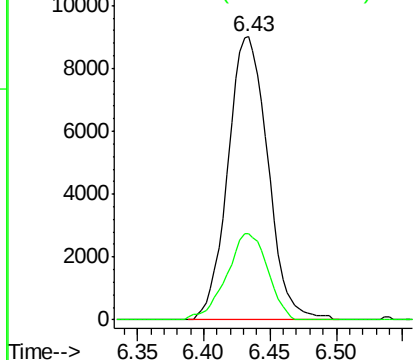


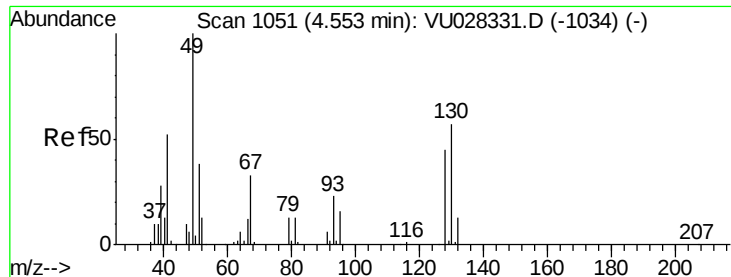
#38
 1,2-Dichloropropane
 Concen: 1.062 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion: 63 Resp: 18892
 Ion Ratio Lower Upper
 63 100
 65 30.4 26.2 39.4



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





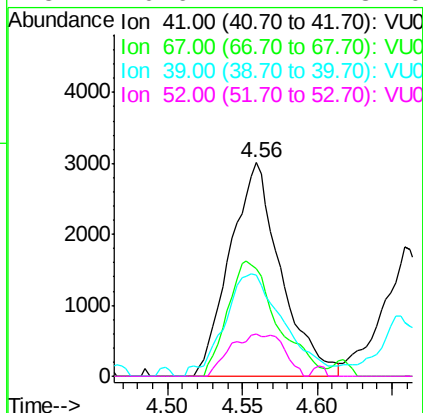
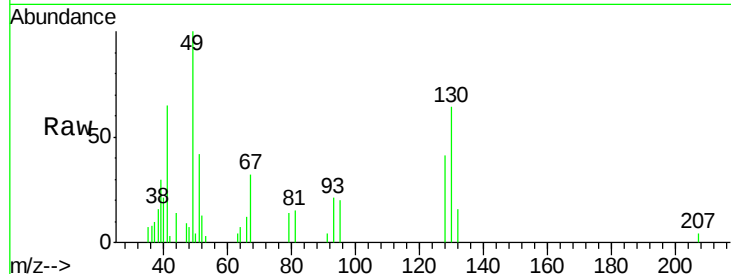
#39
Methacrylonitrile
Concen: 1.023 ug/l
RT: 4.56 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
41	100		
67	52.6	48.2	72.4
39	55.5	42.9	64.3
52	20.6	21.4	32.0#

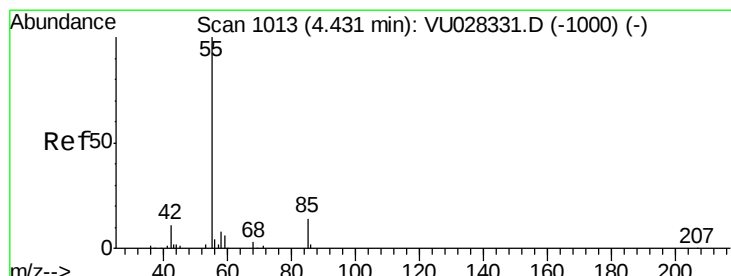
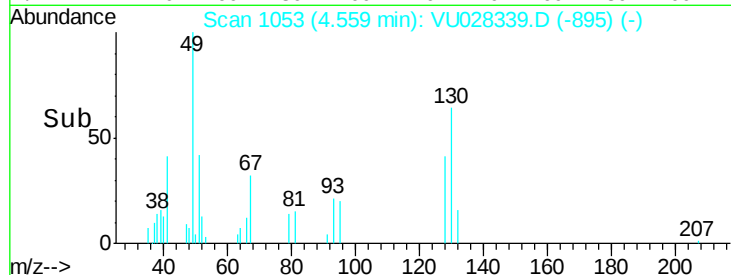
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



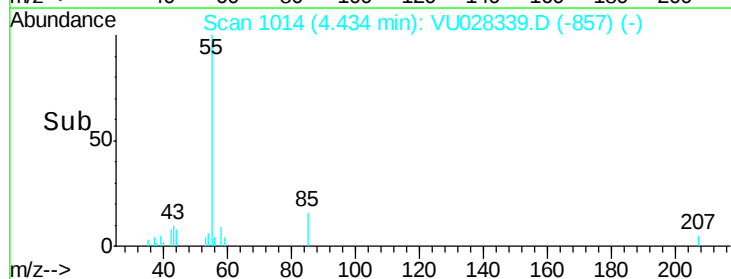
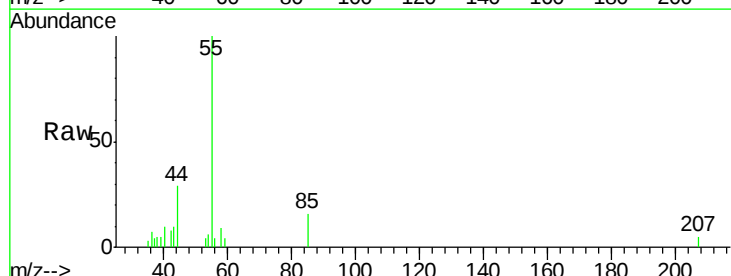
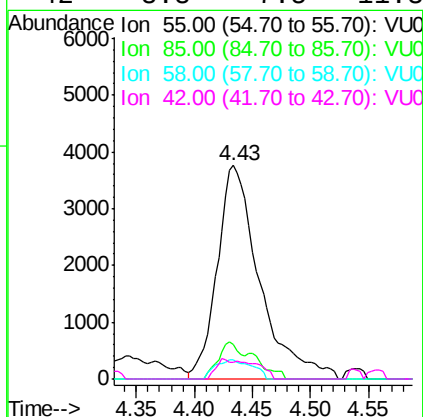
MMDadoda

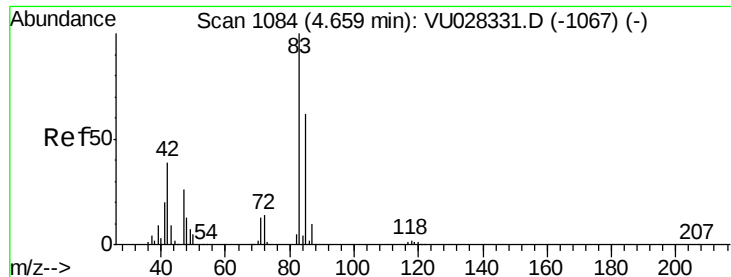
11/30/2018 2:33:43 PM



#40
Methyl acrylate
Concen: 0.994 ug/l
RT: 4.43 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
55	100		
85	9.3	10.9	16.3#
58	7.8	6.4	9.6
42	8.8	7.5	11.3





#41

Tetrahydrofuran

Concen: 1.844 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

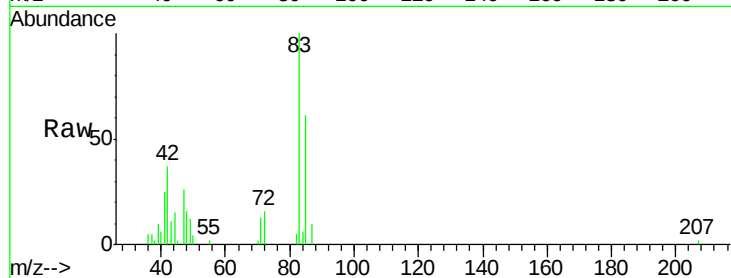
ClientSampleId :

LOQ-WATER-02-QT4-2018

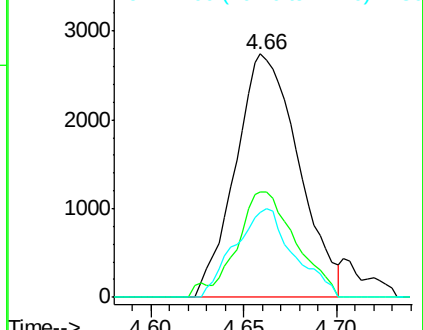
Tgt Ion:	42	Resp:	6469
Ion	Ratio	Lower	Upper
42	100		
72	40.7	29.8	44.6
71	34.0	25.9	38.9

Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM

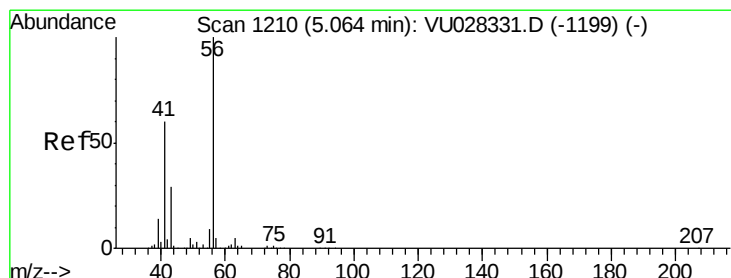
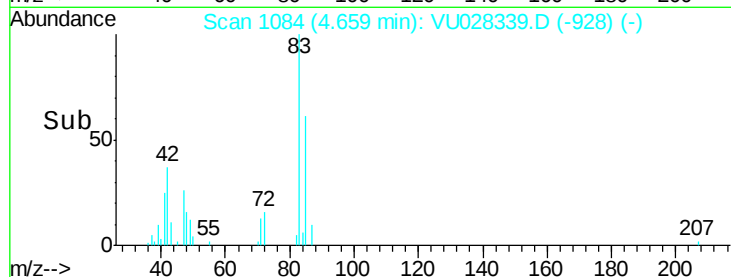


Abundance Ion 42.00 (41.70 to 42.70): VU028339.D (-928) (-)



MMDadoda

11/30/2018 2:33:43 PM



#42

1-Chlorobutane

Concen: 1.014 ug/l

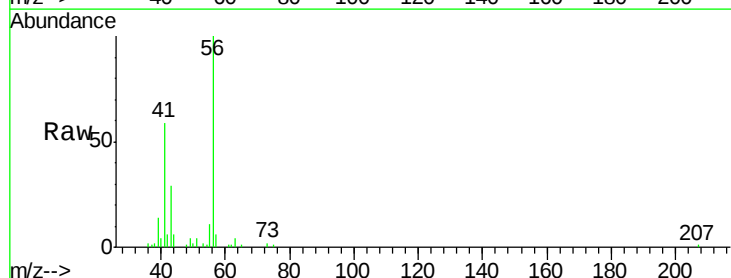
RT: 5.06 min Scan# 1210

Delta R.T. 0.00 min

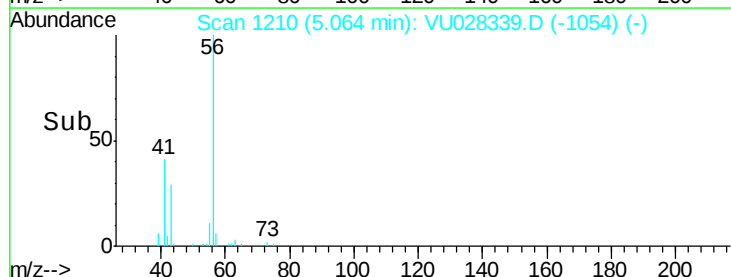
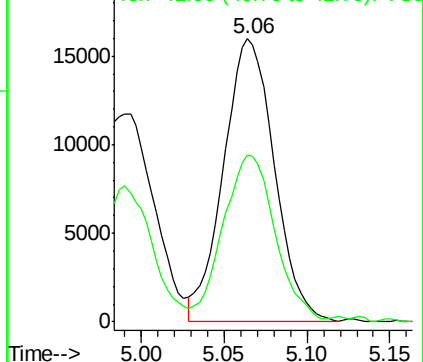
Lab File: VU028339.D

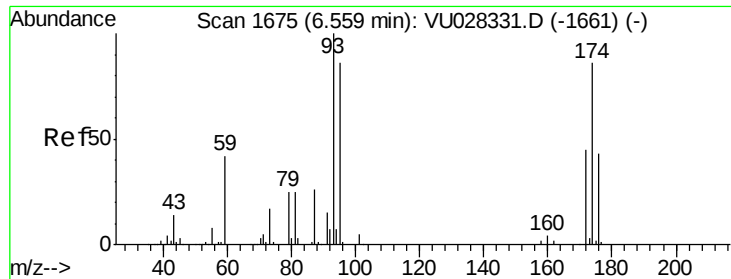
Acq: 26 Nov 2018 15:21

Tgt Ion:	56	Resp:	34151
Ion	Ratio	Lower	Upper
56	100		
41	58.6	29.8	89.3



Abundance Ion 56.00 (55.70 to 56.70): VU028339.D (-1054) (-)





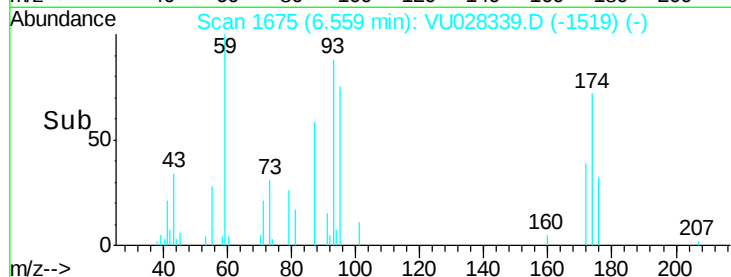
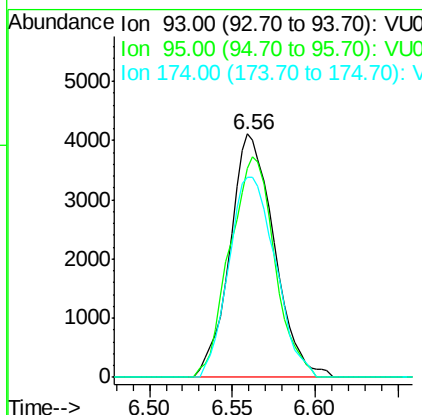
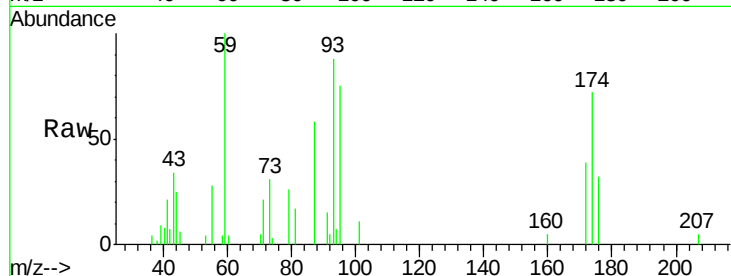
#43
Dibromomethane
Concen: 1.010 ug/l
RT: 6.56 min Scan# 1675
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 93 Resp: 7654
Ion Ratio Lower Upper
93 100
95 91.5 66.6 99.8
174 86.5 69.4 104.2

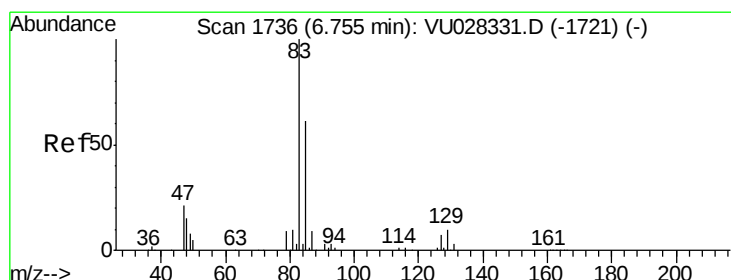
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



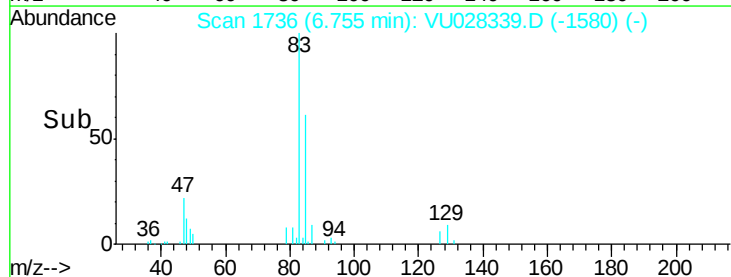
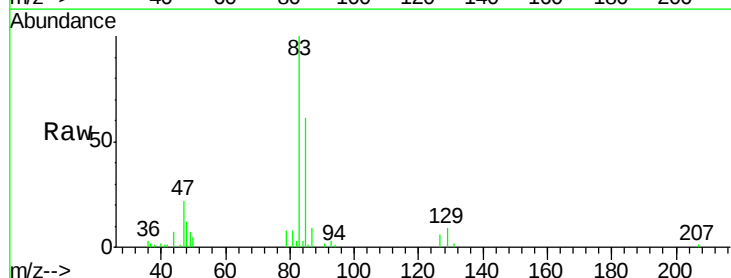
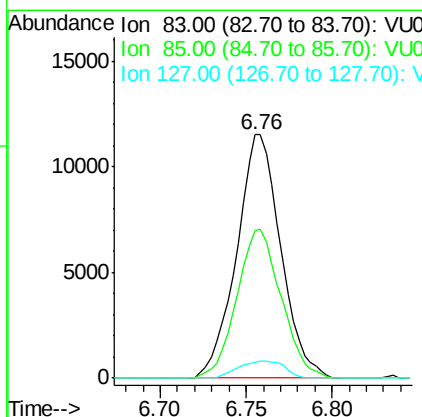
MMDadoda

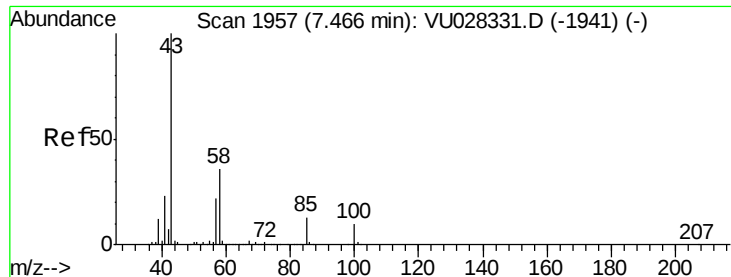
11/30/2018 2:33:43 PM



#44
Bromodichloromethane
Concen: 1.027 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion: 83 Resp: 20552
Ion Ratio Lower Upper
83 100
85 60.8 49.0 73.6
127 6.4 5.7 8.5





#45

4-Methyl-2-Pentanone

Concen: 4.828 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

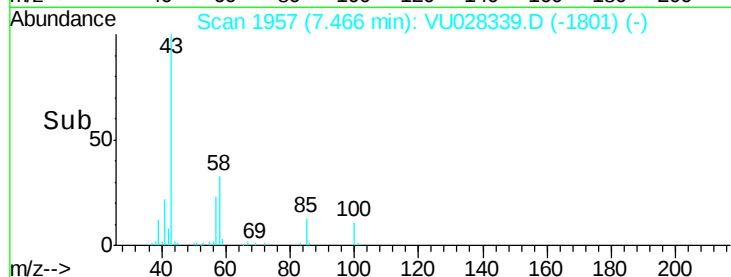
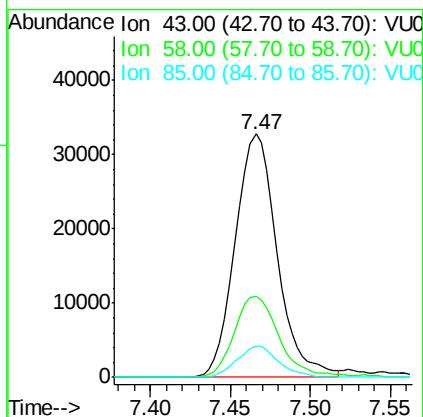
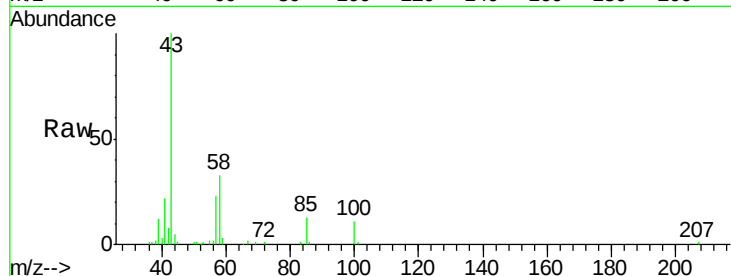
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:	43	Resp:	58748
Ion	Ratio	Lower	Upper
43	100		
58	35.6	17.9	53.7
85	12.5	10.8	16.2

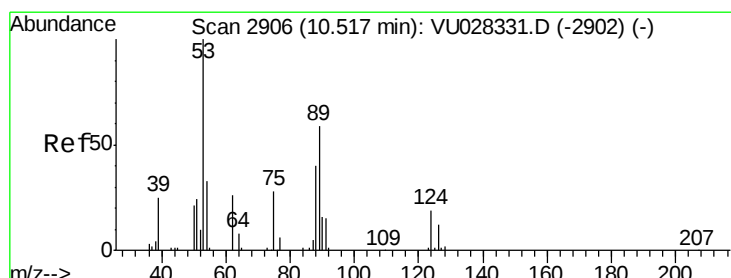
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



MMDadoda

11/30/2018 2:33:43 PM



#46

t-1,4-Dichloro-2-butene

Concen: 1.398 ug/l m

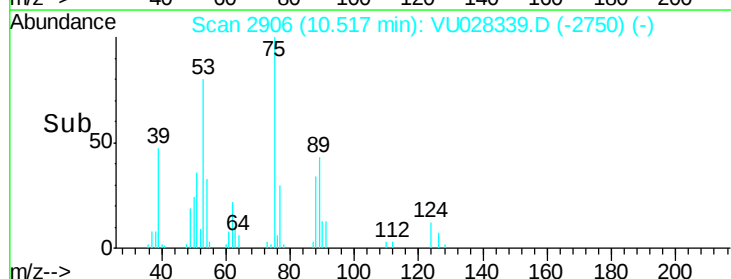
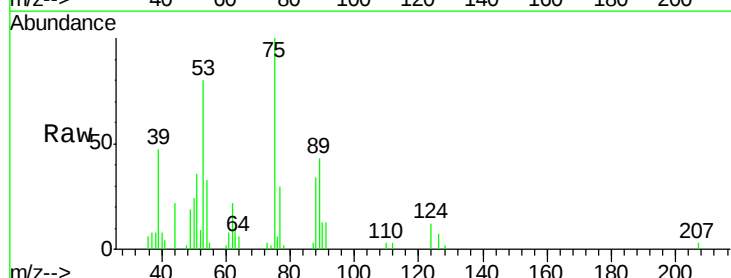
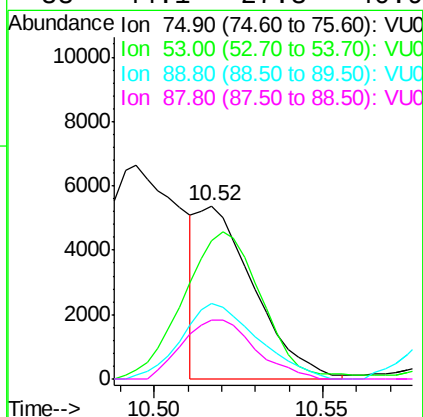
RT: 10.52 min Scan# 2906

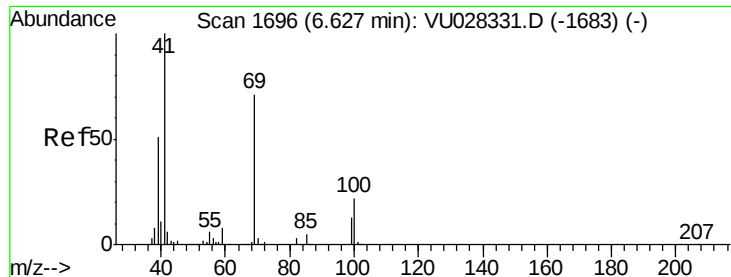
Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Tgt Ion:	75	Resp:	6222
Ion	Ratio	Lower	Upper
75	100		
53	118.9	65.0	97.6#
89	59.1	38.6	58.0#
88	44.1	27.3	40.9#





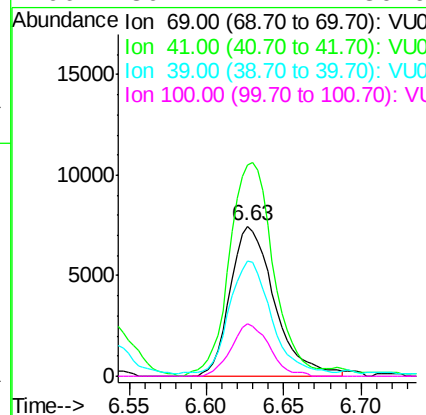
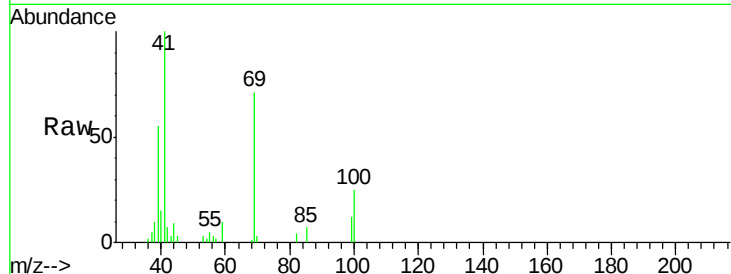
#47
Methyl methacrylate
Concen: 1.921 ug/l
RT: 6.63 min Scan# 1696
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	14854		
41	141.4	0.0	277.2	
39	69.7	57.6	86.4	
100	30.2	24.4	36.6	

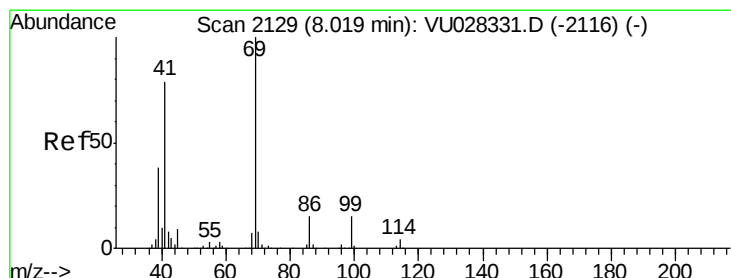
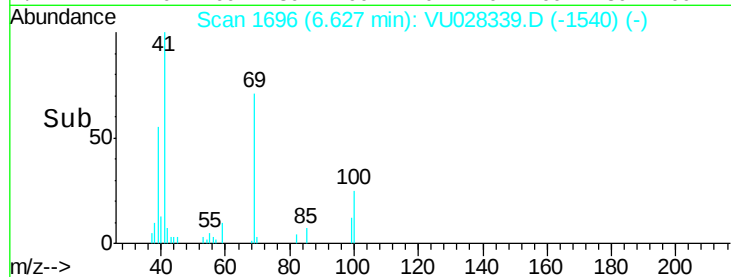
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



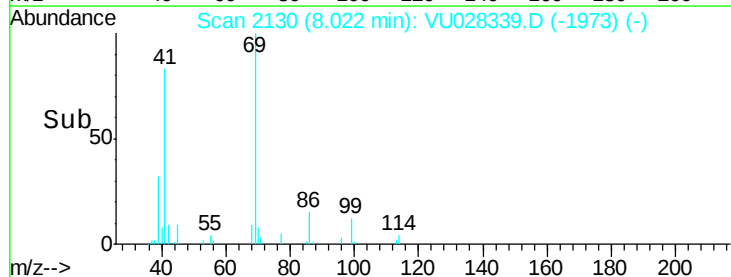
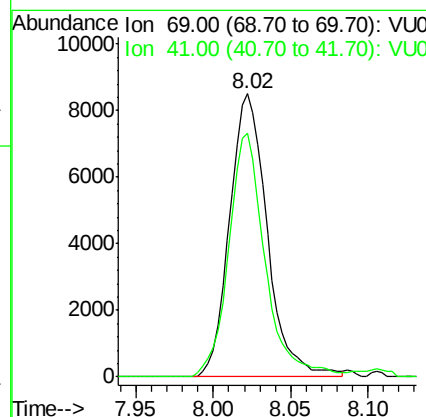
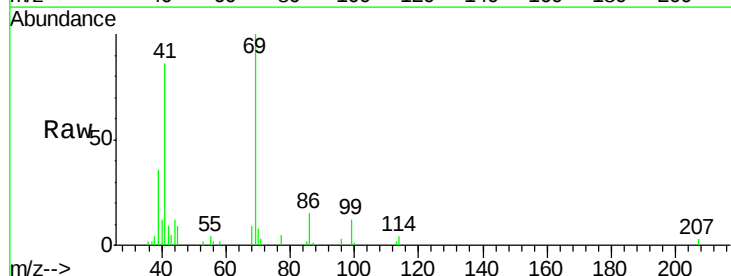
MMDadoda

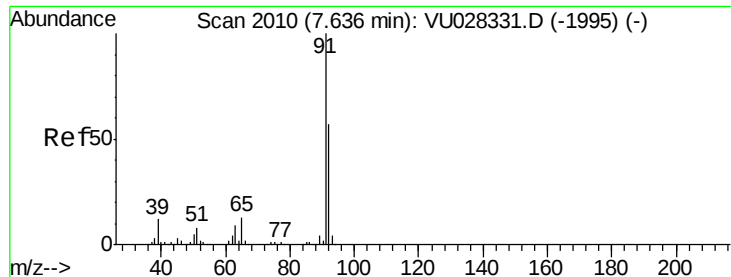
11/30/2018 2:33:43 PM



#48
Ethyl methacrylate
Concen: 0.927 ug/l
RT: 8.02 min Scan# 2130
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	14344		
41	83.0	39.4	118.2	





#49

Toluene

Concen: 0.971 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 92 Resp: 33634

Ion Ratio Lower Upper

92 100

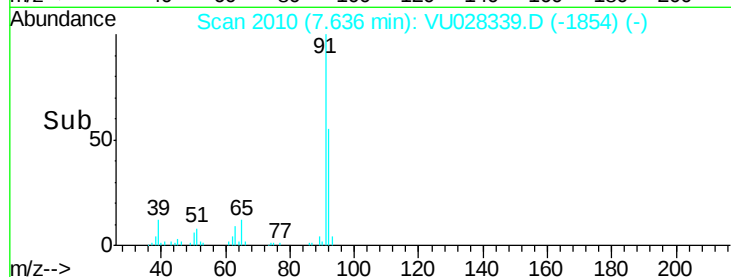
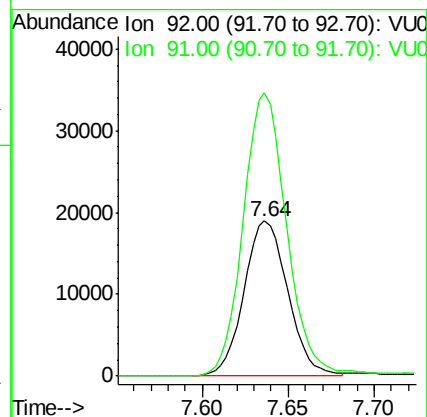
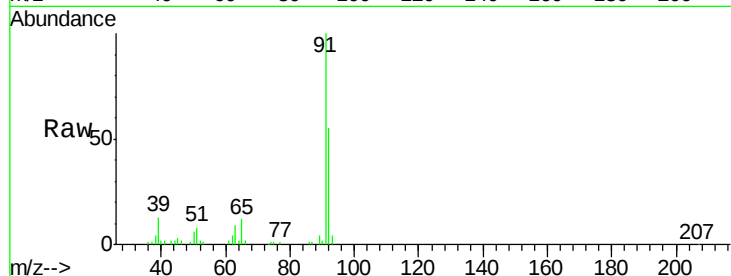
91 182.4 141.5 212.3

Manual Integrations

APPROVED

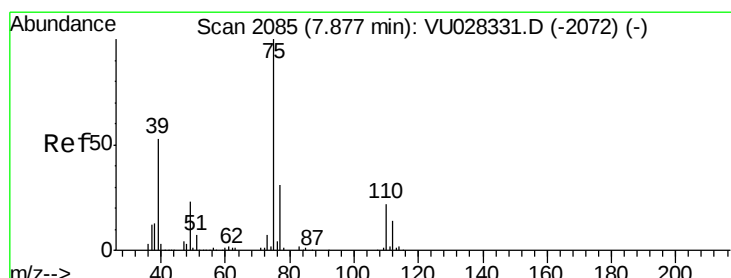
MMDadoda

11/30/2018 2:33:43 PM



MMDadoda

11/30/2018 2:33:43 PM



#50

t-1,3-Dichloropropene

Concen: 0.913 ug/l

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU028339.D

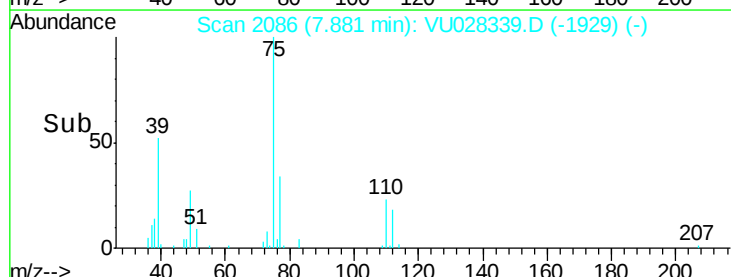
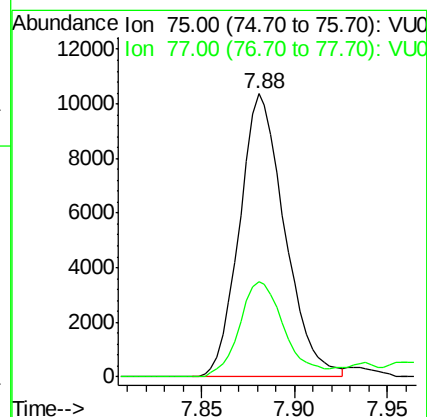
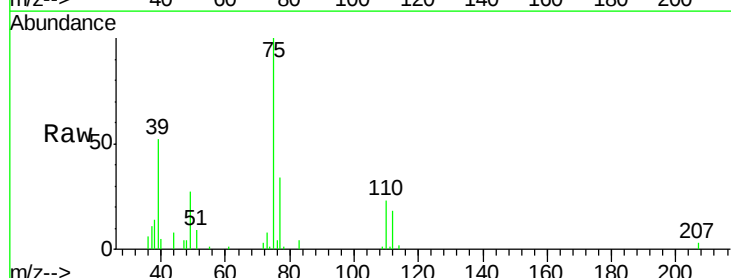
Acq: 26 Nov 2018 15:21

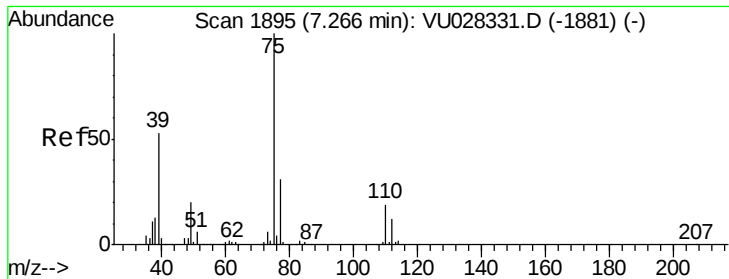
Tgt Ion: 75 Resp: 17540

Ion Ratio Lower Upper

75 100

77 33.7 24.7 37.1





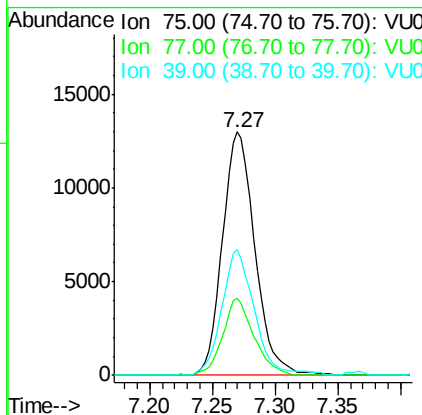
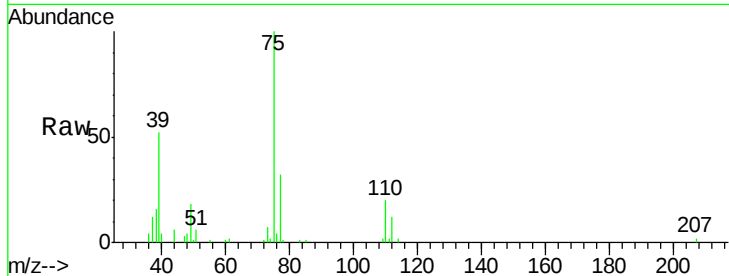
#51
 cis-1,3-Dichloropropene
 Concen: 0.984 ug/l
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.4	36.6
39	51.9	42.8	64.2

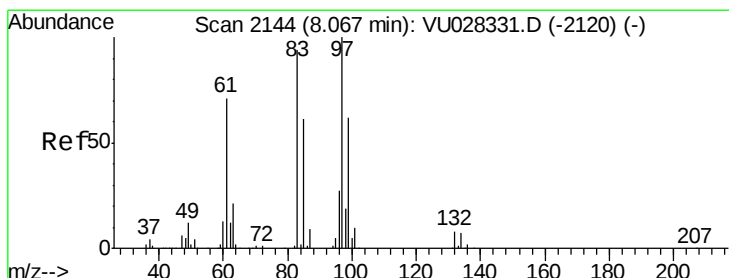
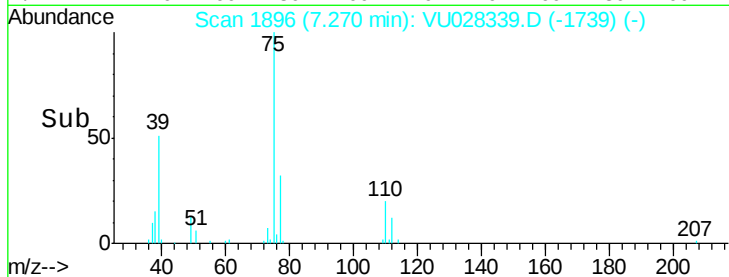
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM



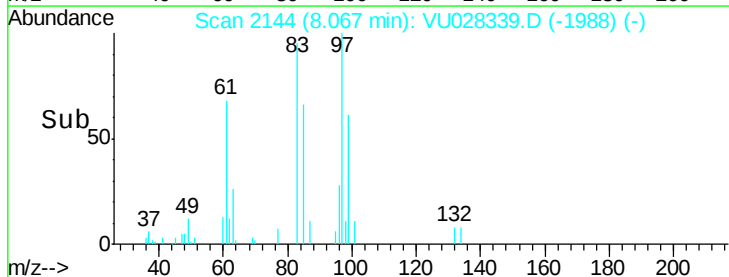
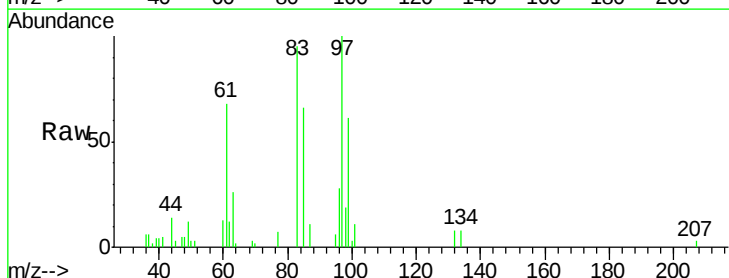
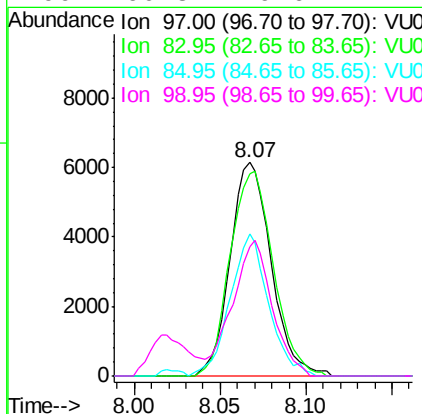
MMDadoda

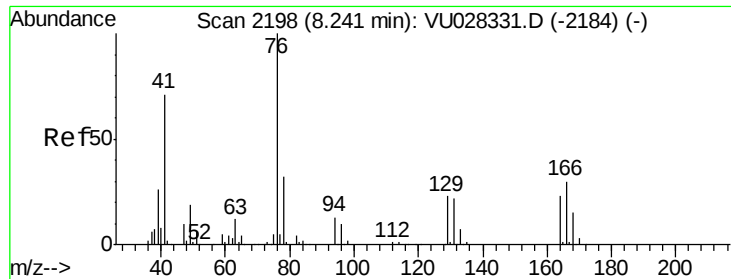
11/30/2018 2:33:43 PM



#52
 1,1,2-Trichloroethane
 Concen: 0.958 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
97	100		
83	94.8	75.1	112.7
85	66.3	48.7	73.1
99	60.8	49.6	74.4





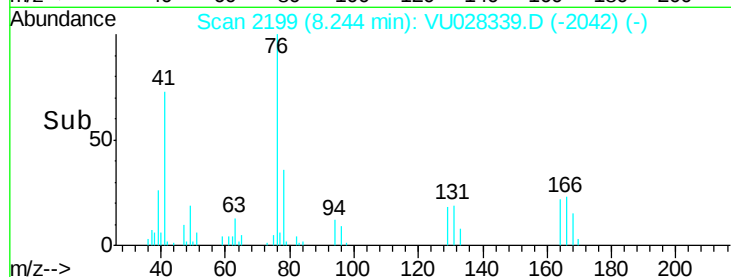
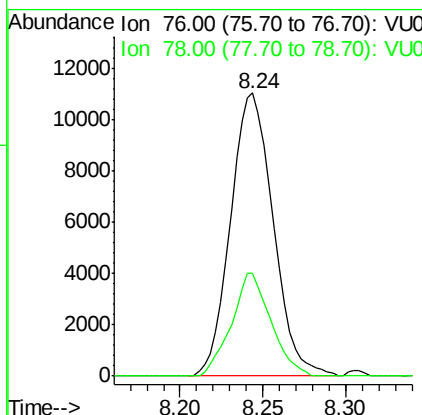
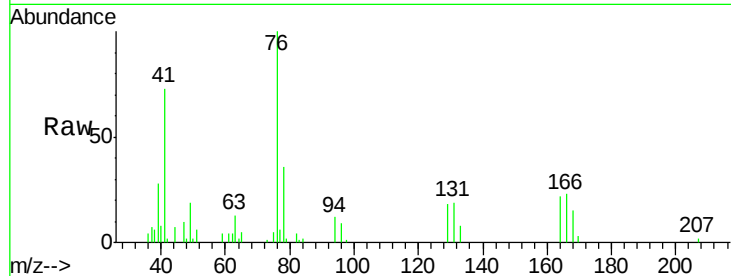
#53
 1,3-Dichloropropane
 Concen: 0.994 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion: 76 Resp: 19752
 Ion Ratio Lower Upper
 76 100
 78 33.7 25.4 38.0

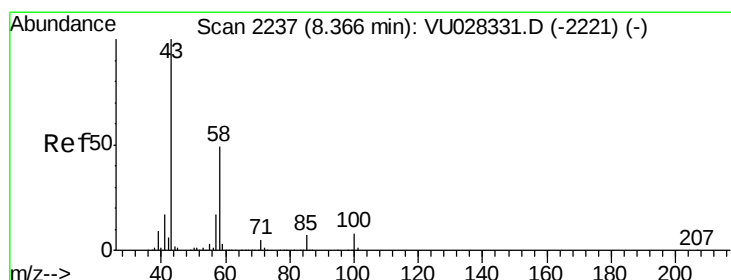
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM



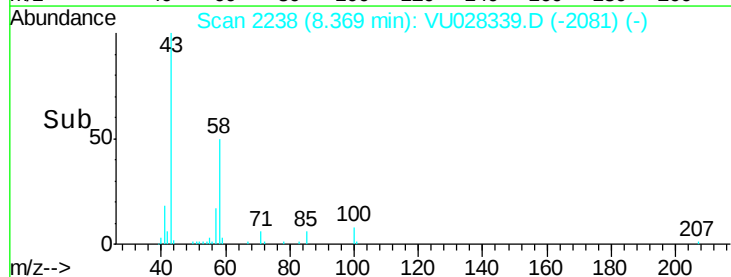
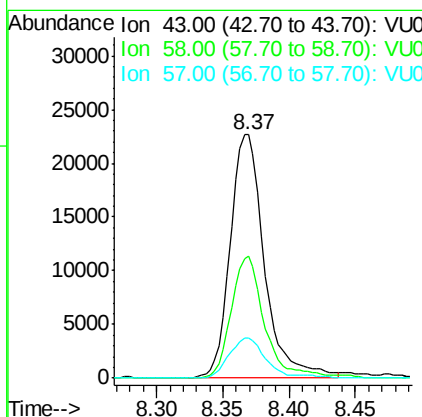
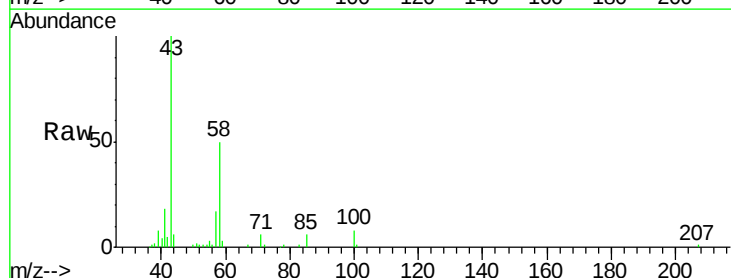
MMDadoda

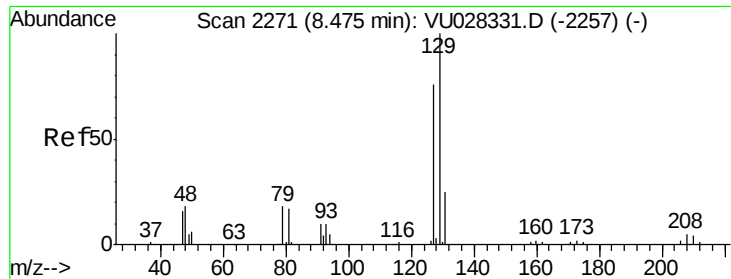
11/30/2018 2:33:43 PM



#54
 2-Hexanone
 Concen: 4.662 ug/l
 RT: 8.37 min Scan# 2238
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion: 43 Resp: 40805
 Ion Ratio Lower Upper
 43 100
 58 49.0 29.3 69.3
 57 17.2 0.0 36.8





#55

Dibromochloromethane

Concen: 0.959 ug/l

RT: 8.48 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:129 Resp: 10854

Ion Ratio Lower Upper

129 100

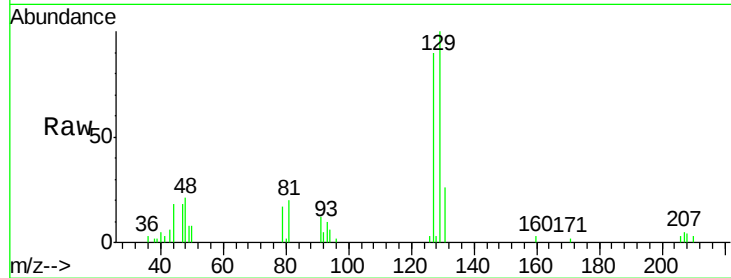
127 82.1 61.0 91.4

Manual Integrations

APPROVED

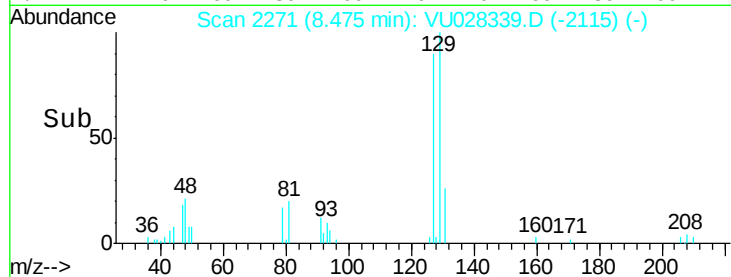
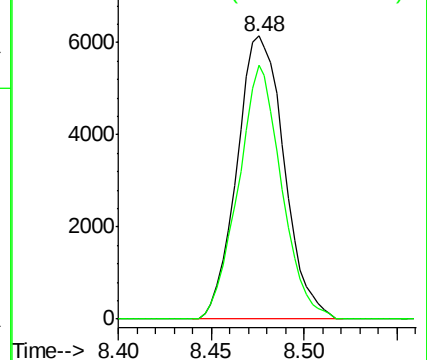
MMDadoda

11/30/2018 2:33:43 PM



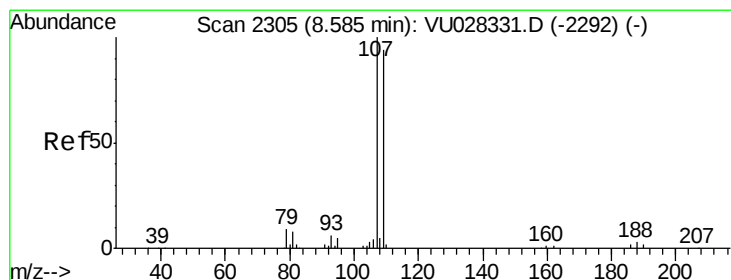
Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



MMDadoda

11/30/2018 2:33:43 PM



#56

1,2-Dibromoethane

Concen: 0.965 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU028339.D

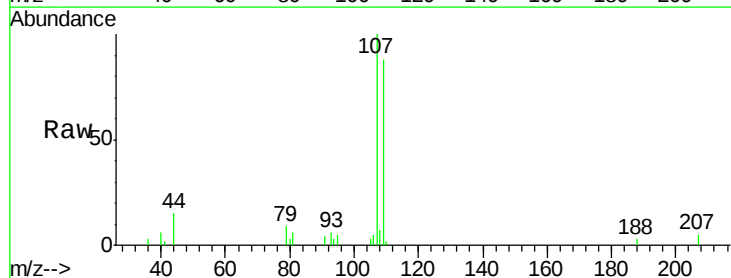
Acq: 26 Nov 2018 15:21

Tgt Ion:107 Resp: 9352

Ion Ratio Lower Upper

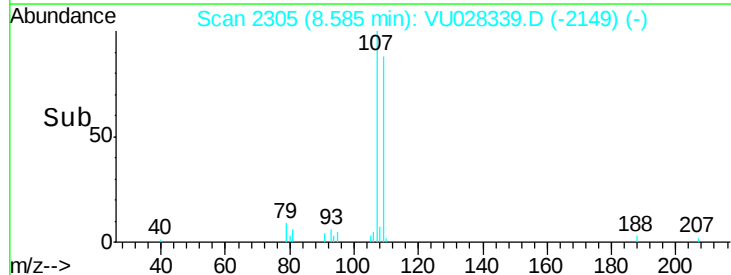
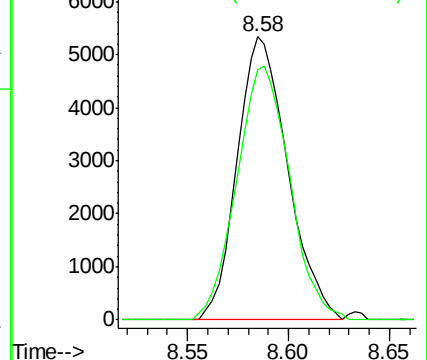
107 100

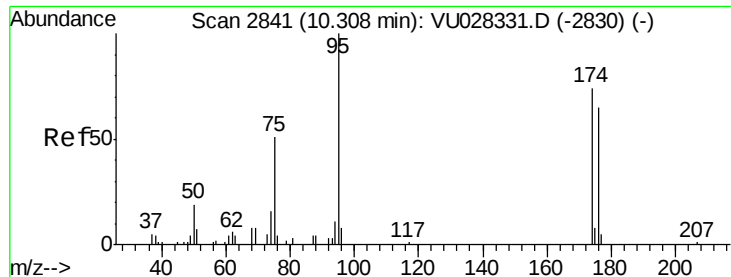
109 93.9 0.0 187.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





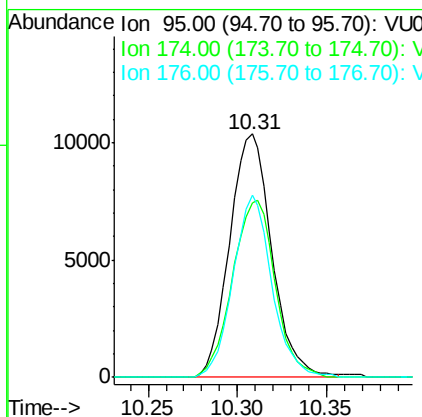
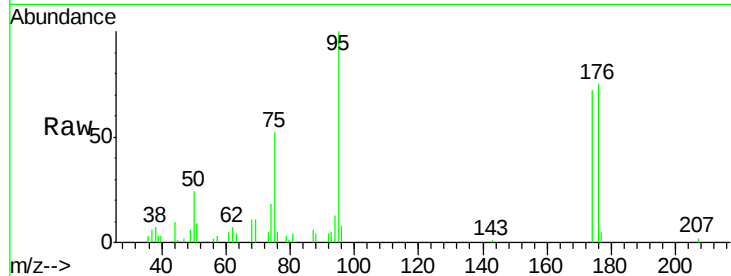
#57
4-Bromofluorobenzene
Concen: 0.965 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	17090		
174	73.7	59.3	88.9	
176	69.1	54.3	81.5	

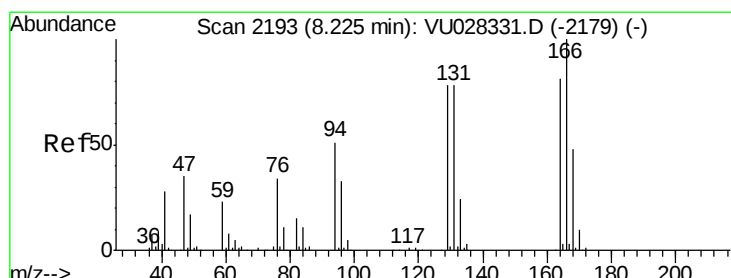
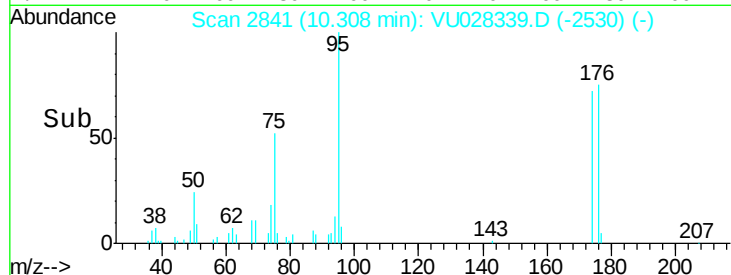
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



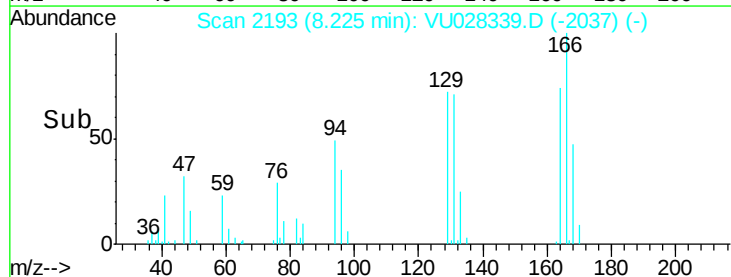
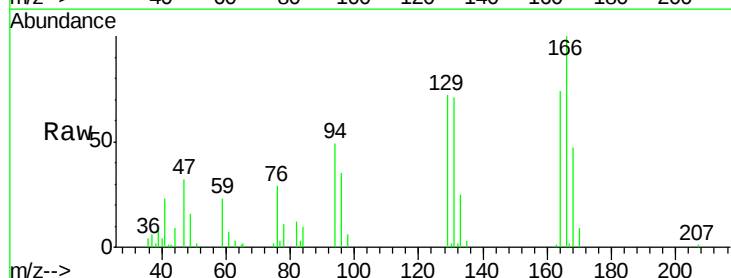
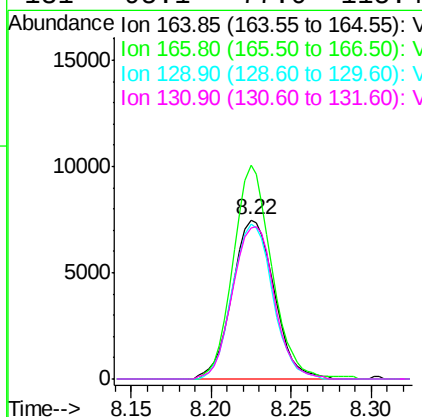
MMDadoda

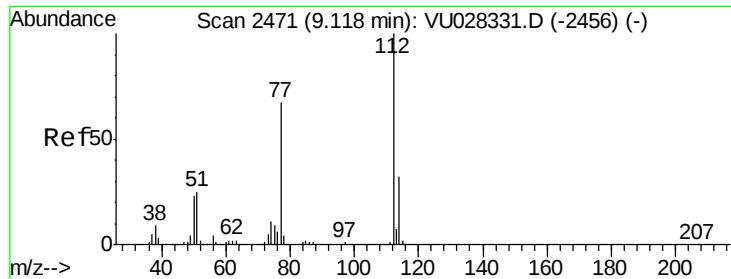
11/30/2018 2:33:43 PM



#58
Tetrachloroethene
Concen: 1.076 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	13396		
166	134.4	98.6	148.0	
129	97.2	77.0	115.4	
131	95.1	77.0	115.4	





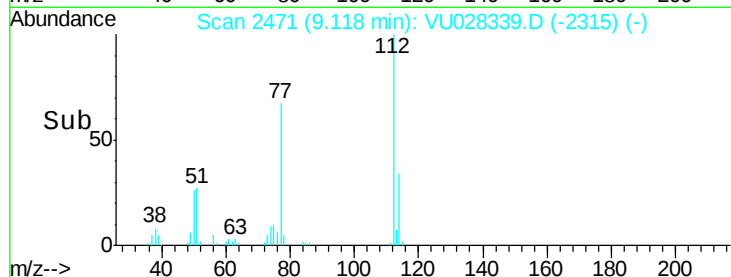
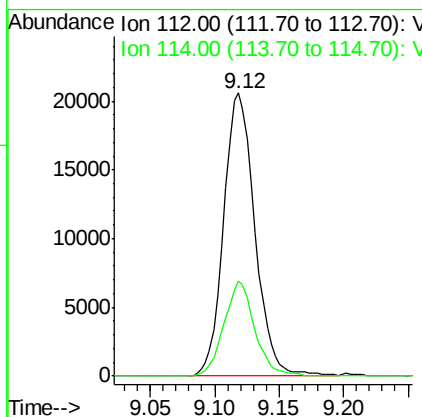
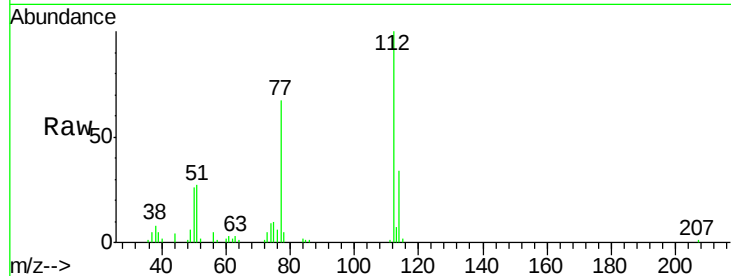
#59
Chlorobenzene
Concen: 0.959 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion:112 Resp: 34594
Ion Ratio Lower Upper
112 100
114 33.6 25.2 37.8

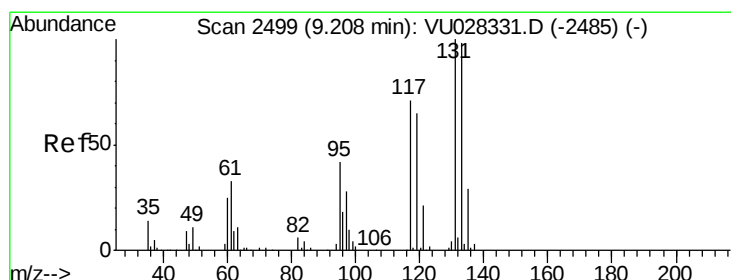
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



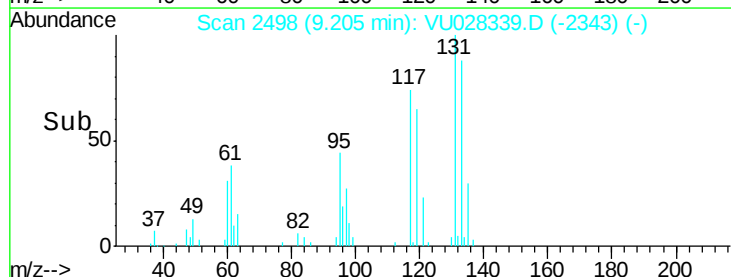
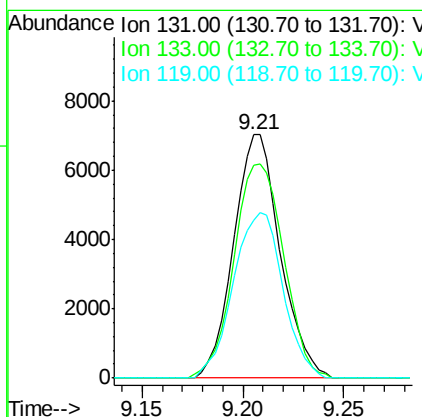
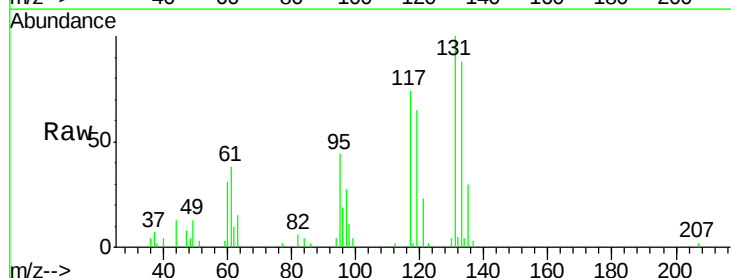
MMDadoda

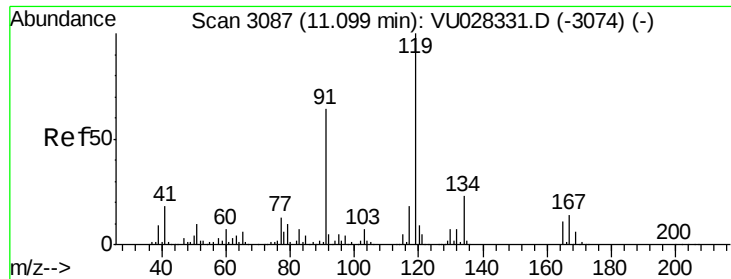
11/30/2018 2:33:43 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 0.931 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion:131 Resp: 11377
Ion Ratio Lower Upper
131 100
133 94.0 77.7 116.5
119 72.2 54.3 81.5





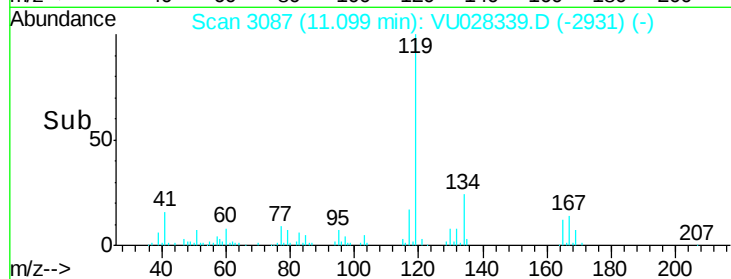
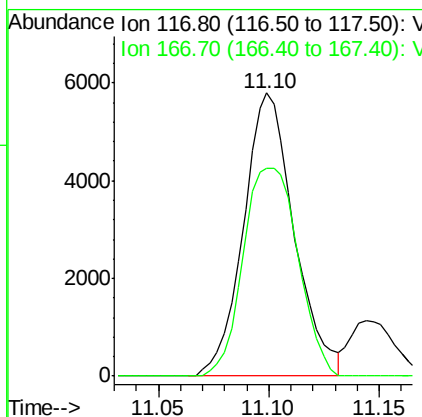
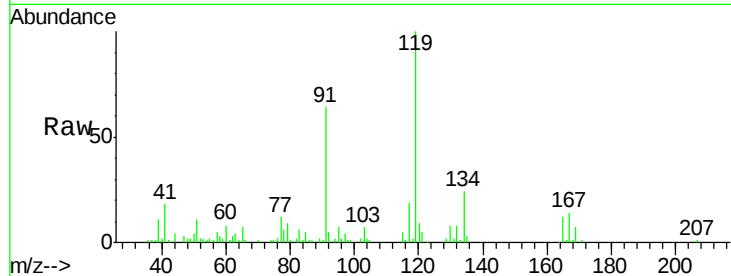
#61
 Pentachloroethane
 Concen: 0.974 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion:117 Resp: 9258
 Ion Ratio Lower Upper
 117 100
 167 79.7 64.2 96.2

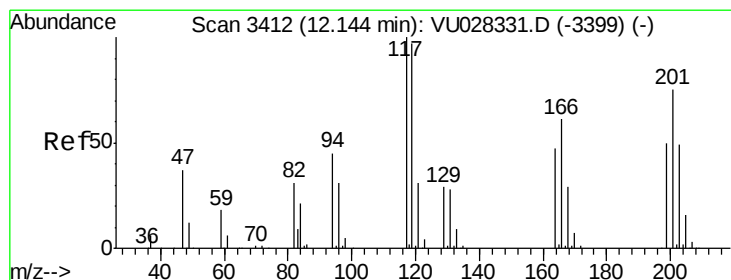
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM



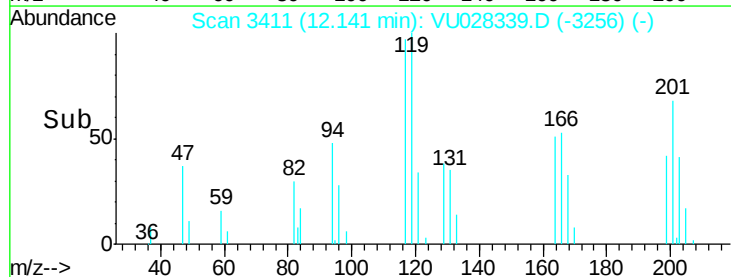
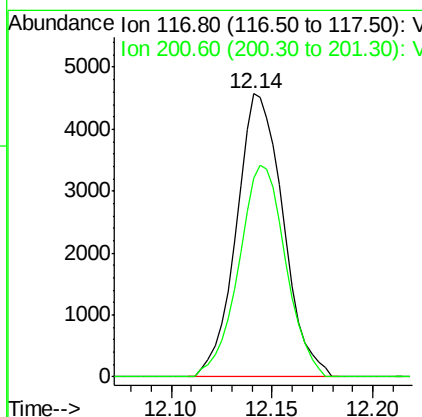
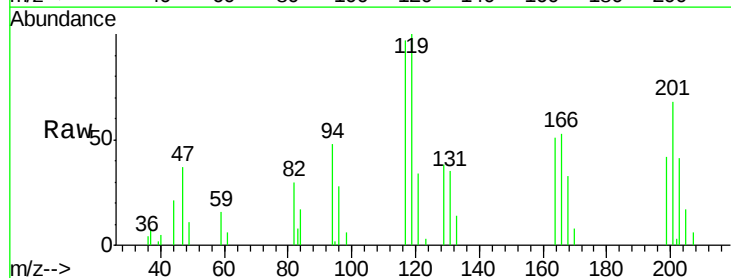
MMDadoda

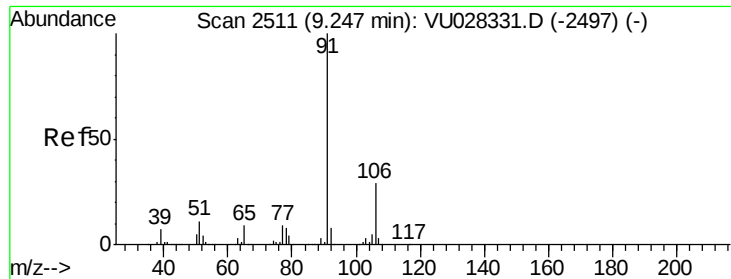
11/30/2018 2:33:43 PM



#62
 Hexachloroethane
 Concen: 0.832 ug/l
 RT: 12.14 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion:117 Resp: 7413
 Ion Ratio Lower Upper
 117 100
 201 74.9 59.4 89.2





#63

Ethyl Benzene

Concen: 0.978 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 91 Resp: 65105

Ion Ratio Lower Upper

91 100

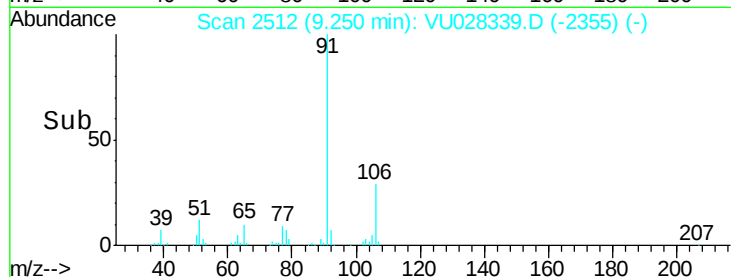
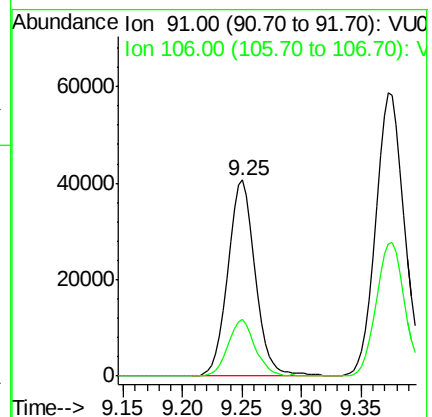
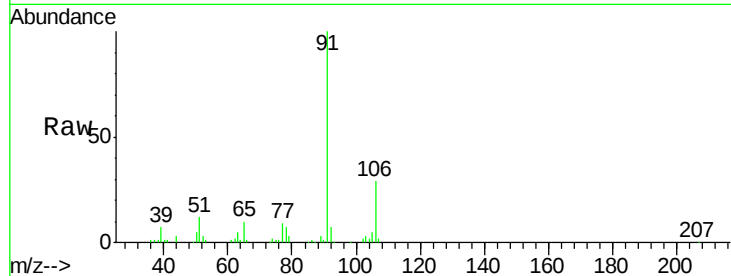
106 28.9 23.4 35.2

Manual Integrations

APPROVED

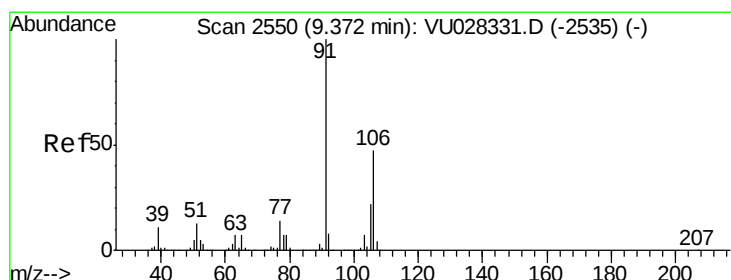
MMDadoda

11/30/2018 2:33:43 PM



MMDadoda

11/30/2018 2:33:43 PM



#64

m/p-Xylenes

Concen: 1.889 ug/l

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028339.D

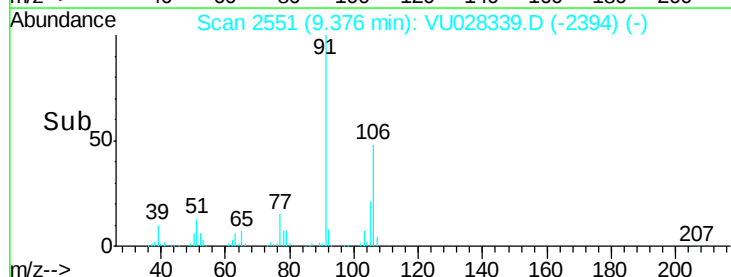
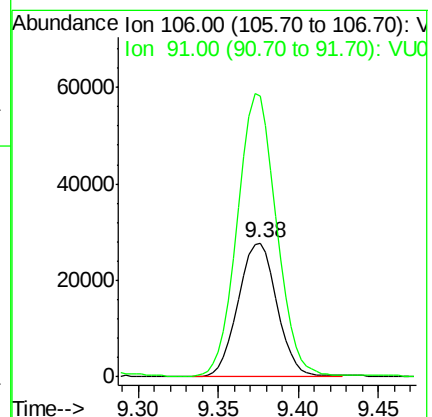
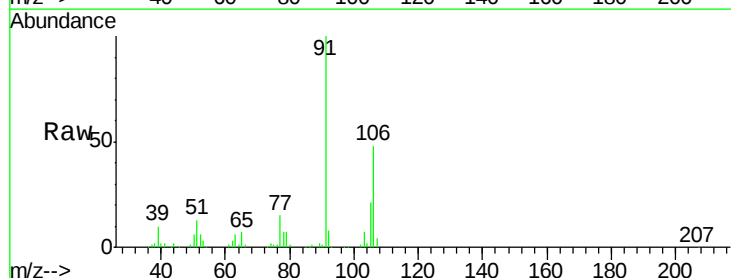
Acq: 26 Nov 2018 15:21

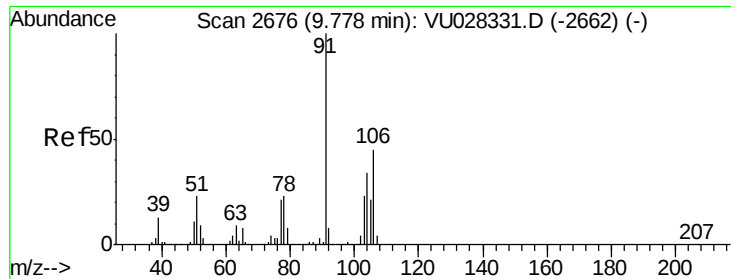
Tgt Ion: 106 Resp: 45481

Ion Ratio Lower Upper

106 100

91 213.8 170.6 256.0





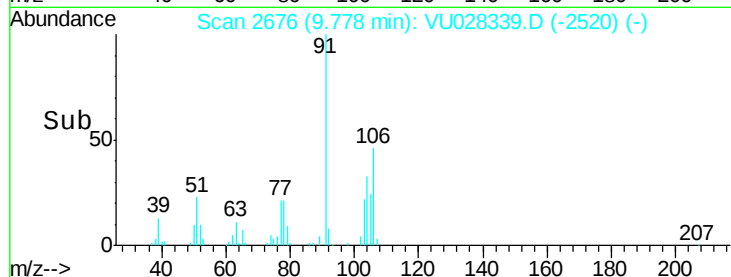
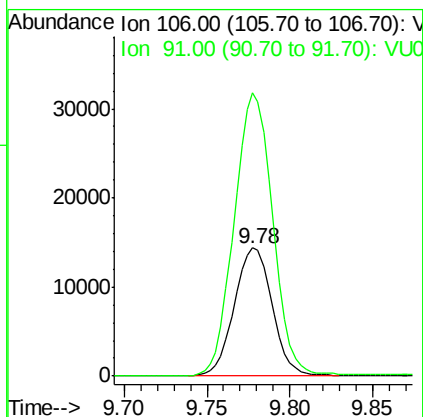
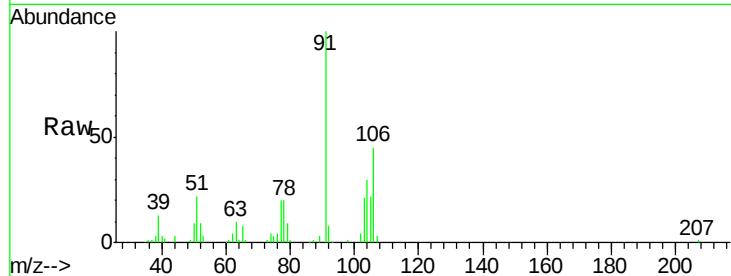
#65
o-Xylene
Concen: 0.987 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion:106 Resp: 22928
Ion Ratio Lower Upper
106 100
91 225.1 112.3 337.0

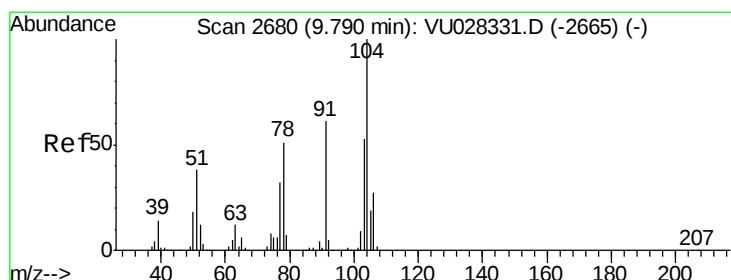
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



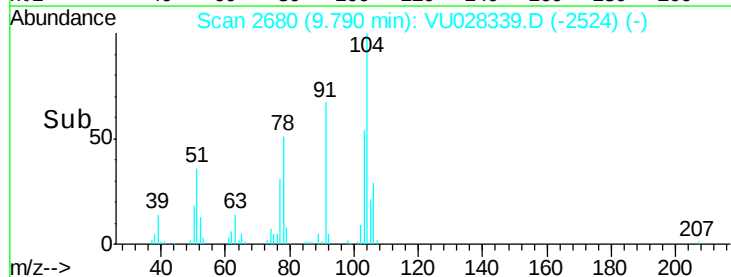
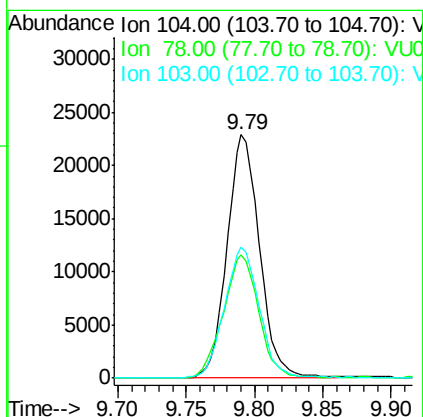
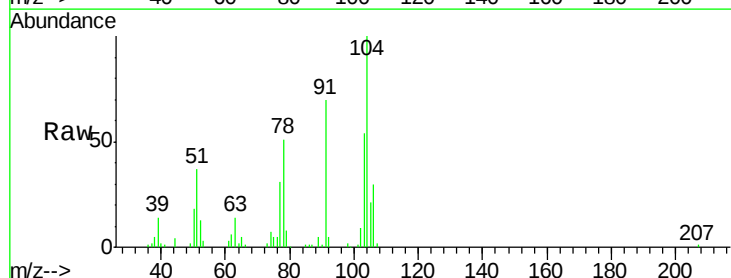
MMDadoda

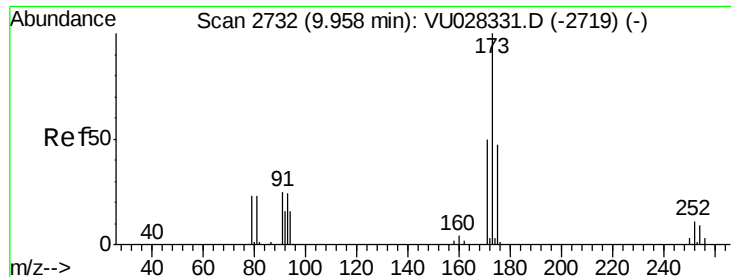
11/30/2018 2:33:43 PM



#66
Styrene
Concen: 0.952 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion:104 Resp: 37962
Ion Ratio Lower Upper
104 100
78 55.0 44.0 66.0
103 57.6 45.2 67.8





#67

Bromoform

Concen: 0.864 ug/l

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

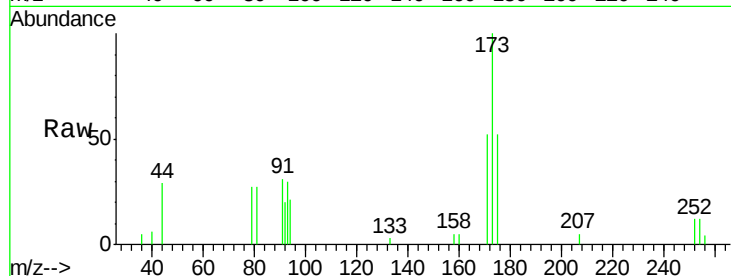
ClientSampleId :

LOQ-WATER-02-QT4-2018

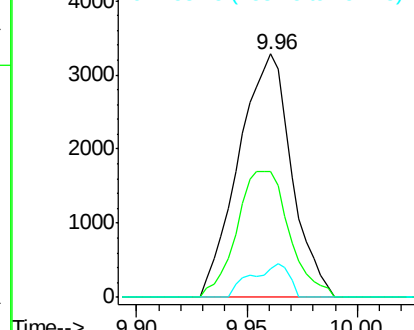
Tgt Ion:	173	Resp:	5476
Ion Ratio	Lower	Upper	
173	100		
175	51.4	39.0	58.6
254	10.0	6.8	10.2

Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM

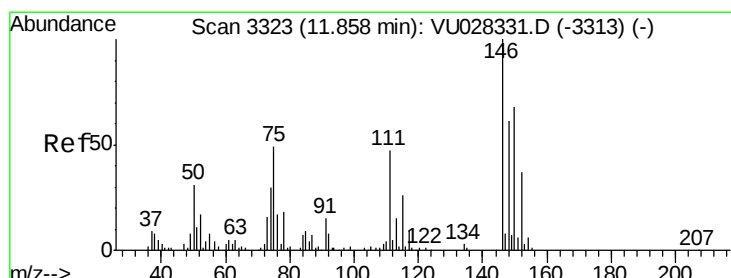
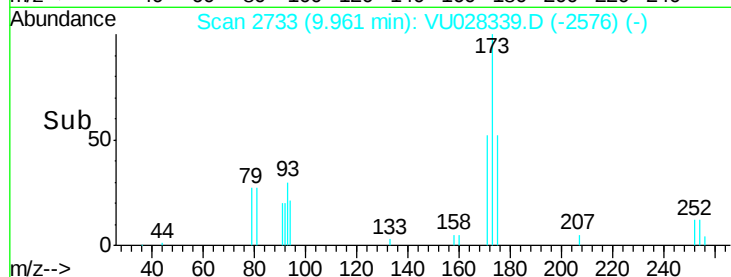


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



MMDadoda

11/30/2018 2:33:43 PM



#68

1,2-Dichlorobenzene-d4

Concen: 0.864 ug/l

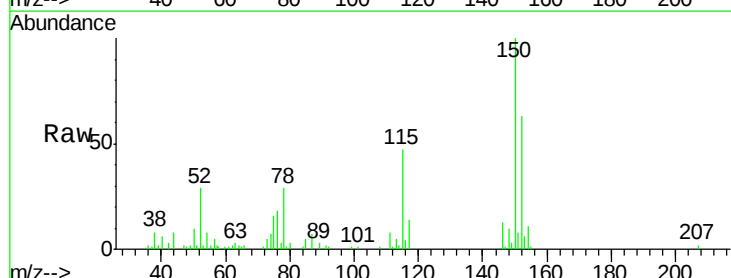
RT: 11.86 min Scan# 3323

Delta R.T. 0.00 min

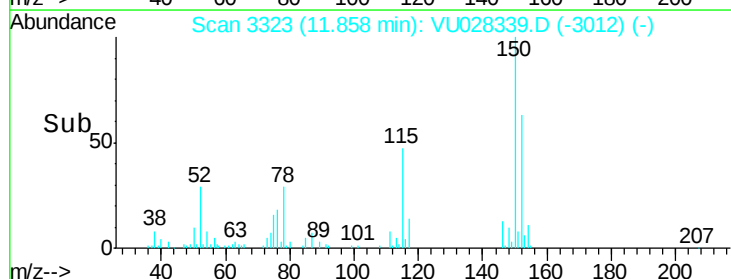
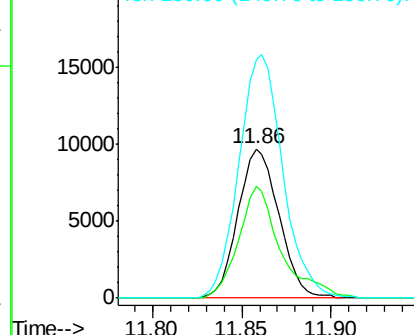
Lab File: VU028339.D

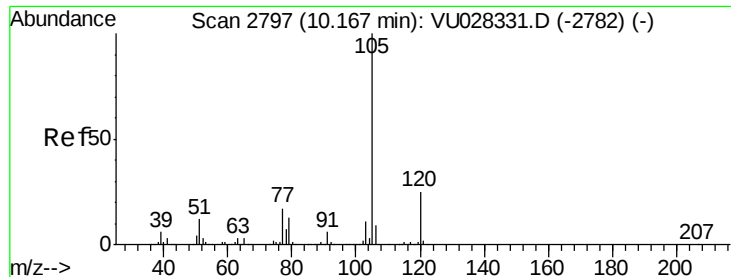
Acq: 26 Nov 2018 15:21

Tgt Ion:	152	Resp:	15496
Ion Ratio	Lower	Upper	
152	100		
115	77.0	0.0	146.8
150	175.1	0.0	653.2



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





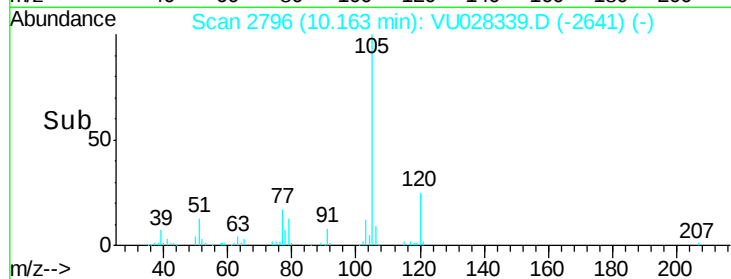
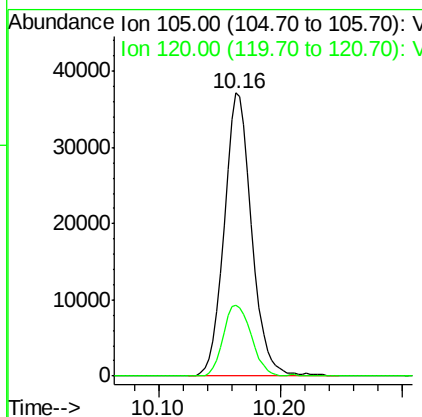
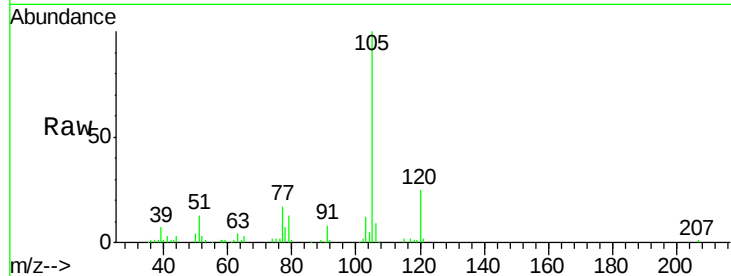
#69
Isopropylbenzene
Concen: 0.943 ug/l
RT: 10.16 min Scan# 2796
Delta R.T. -0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 105 Resp: 58680
Ion Ratio Lower Upper
105 100
120 25.7 12.6 37.6

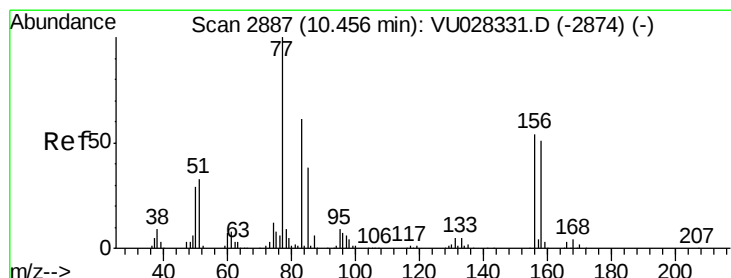
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



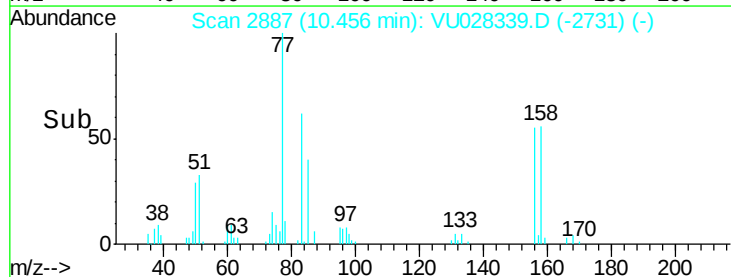
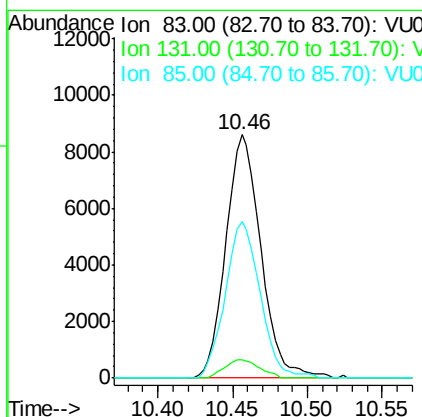
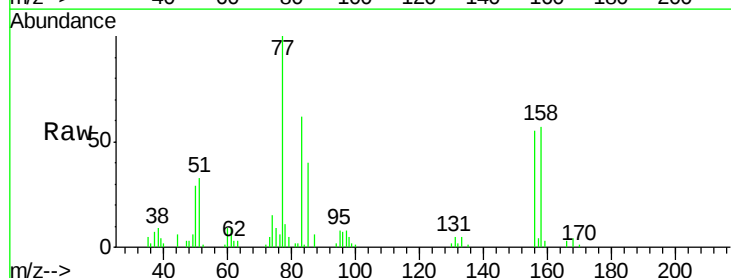
MMDadoda

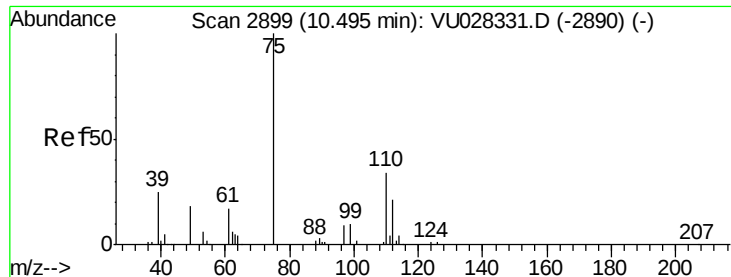
11/30/2018 2:33:43 PM



#70
1,1,2,2-Tetrachloroethane
Concen: 0.989 ug/l
RT: 10.46 min Scan# 2887
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion: 83 Resp: 14107
Ion Ratio Lower Upper
83 100
131 7.4 6.6 9.8
85 63.8 50.5 75.7





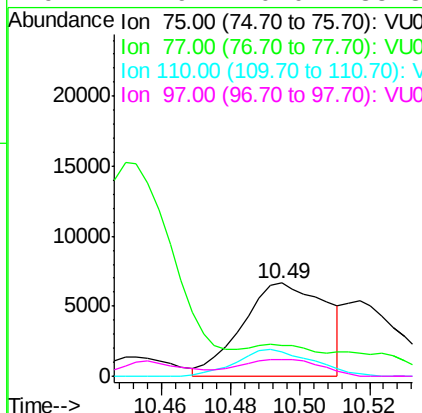
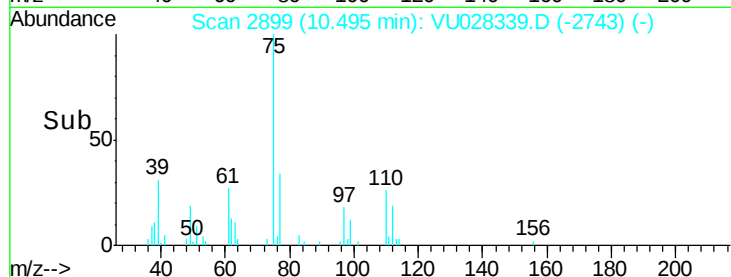
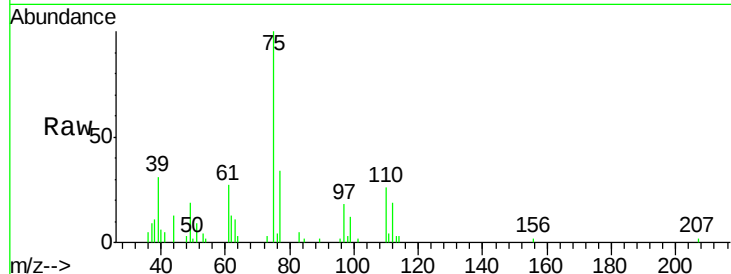
#71
1,2,3-Trichloropropane
Concen: 1.135 ug/l m
RT: 10.49 min Scan# 2899
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	25.9	0.0	67.6
97	17.9	0.0	35.8

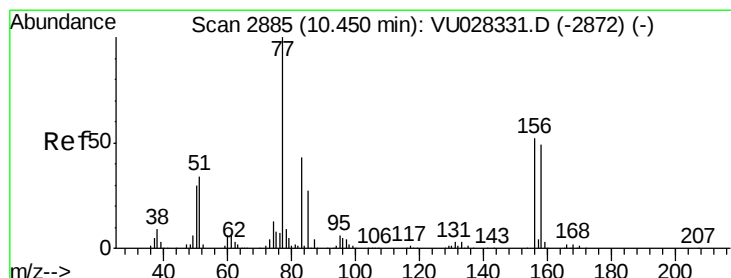
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



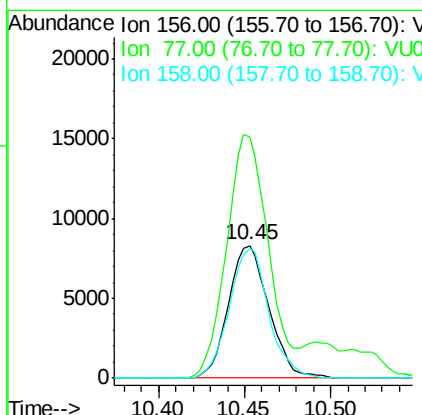
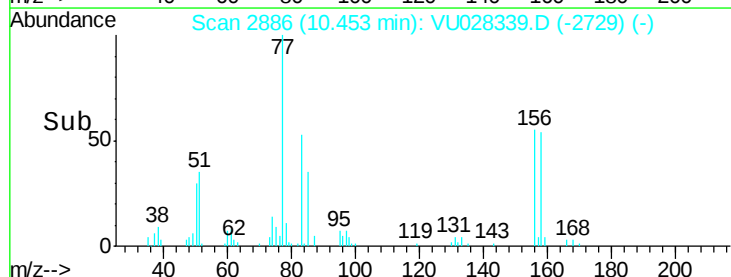
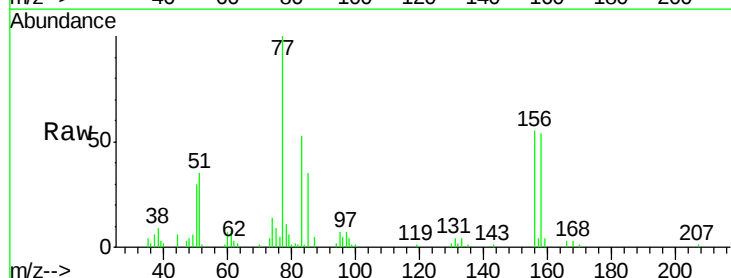
MMDadoda

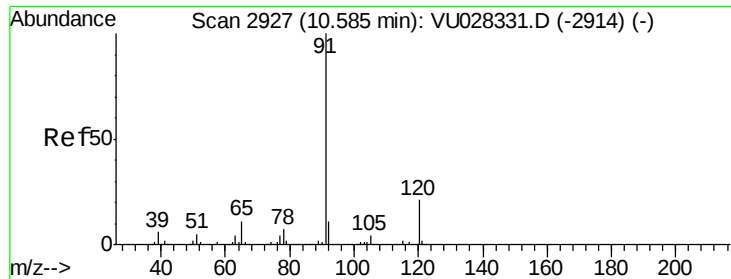
11/30/2018 2:33:43 PM



#72
Bromobenzene
Concen: 0.984 ug/l
RT: 10.45 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
156	100		
77	191.2	0.0	380.4
158	95.8	0.0	191.2





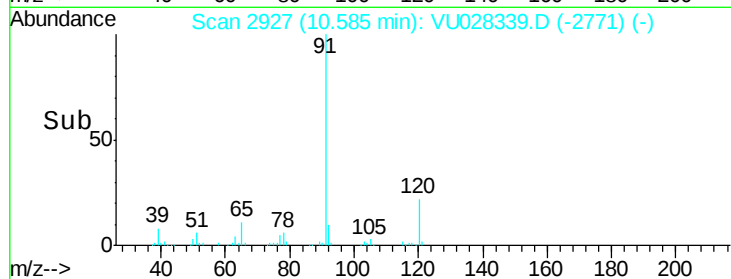
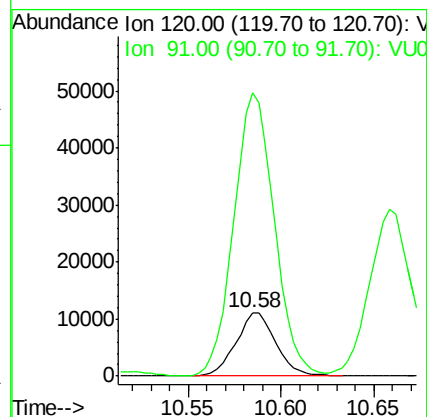
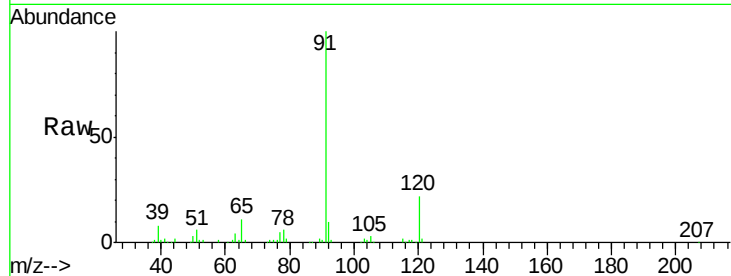
#73
n-propylbenzene
Concen: 1.026 ug/l
RT: 10.58 min Scan# 2927
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion:120 Resp: 16557
Ion Ratio Lower Upper
120 100
91 456.2 388.1 582.1

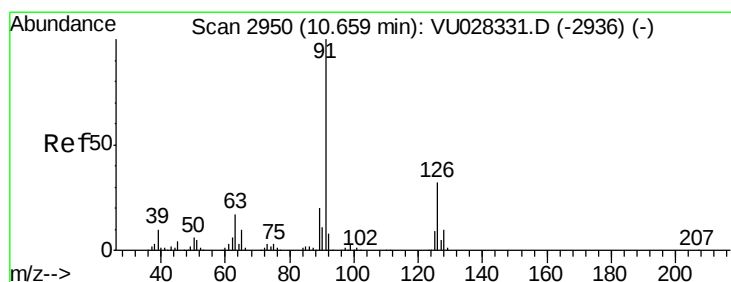
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



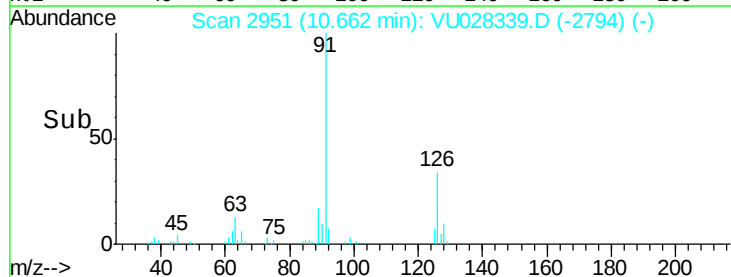
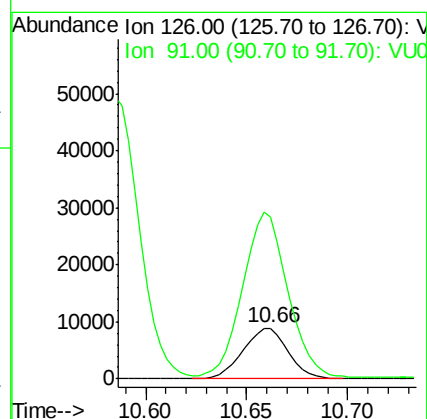
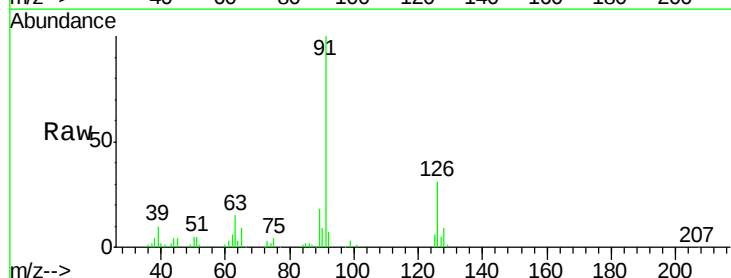
MMDadoda

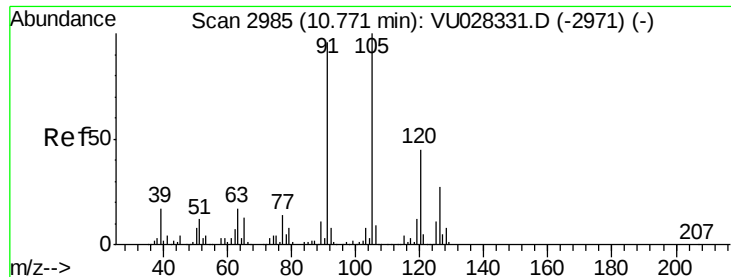
11/30/2018 2:33:43 PM



#74
2-Chlorotoluene
Concen: 0.983 ug/l
RT: 10.66 min Scan# 2951
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion:126 Resp: 13895
Ion Ratio Lower Upper
126 100
91 328.9 0.0 661.0





#75

1,3,5-Trimethylbenzene

Concen: 0.944 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:105 Resp: 49449

Ion Ratio Lower Upper

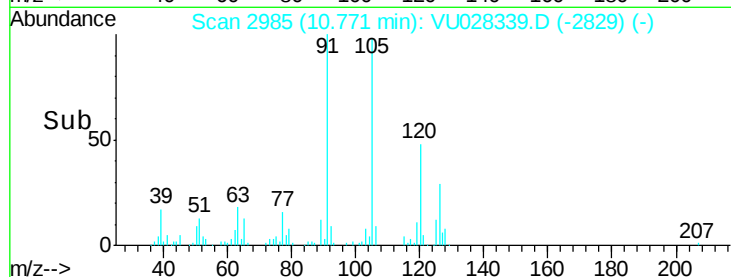
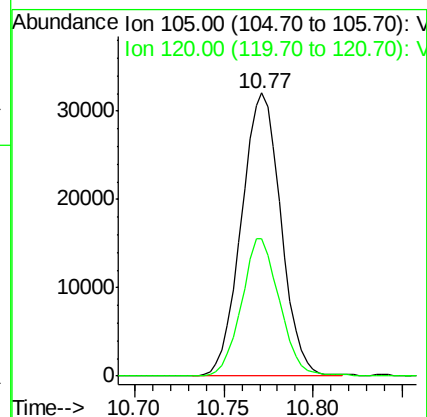
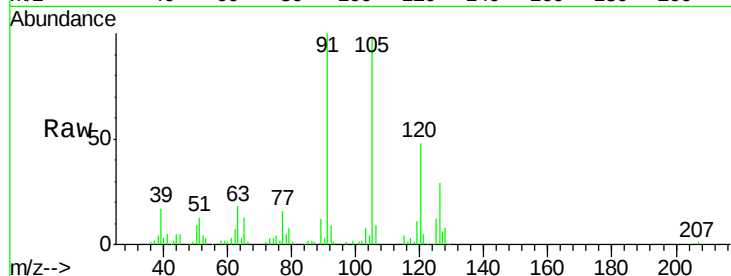
105 100

120 46.8 36.3 54.5

Manual Integrations
APPROVED

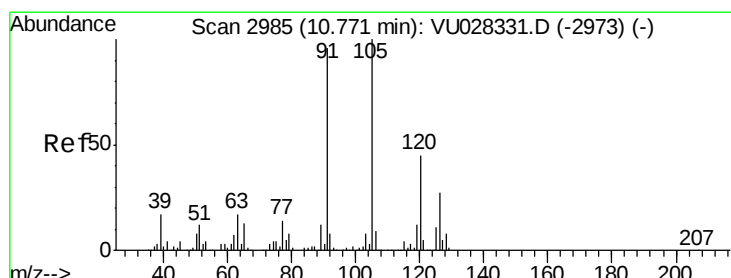
MMDadoda

11/30/2018 2:33:43 PM



MMDadoda

11/30/2018 2:33:43 PM



#76

4-Chlorotoluene

Concen: 0.982 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028339.D

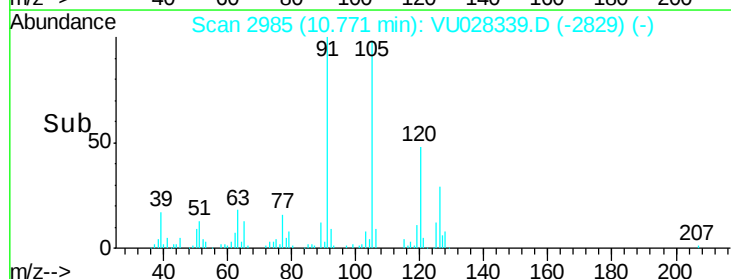
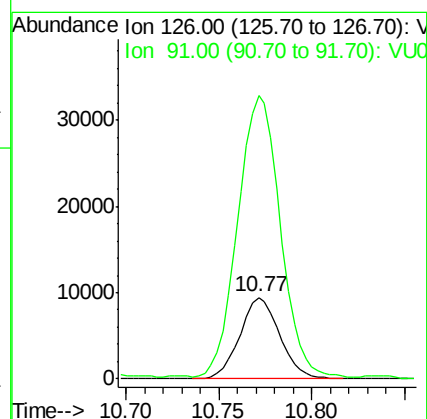
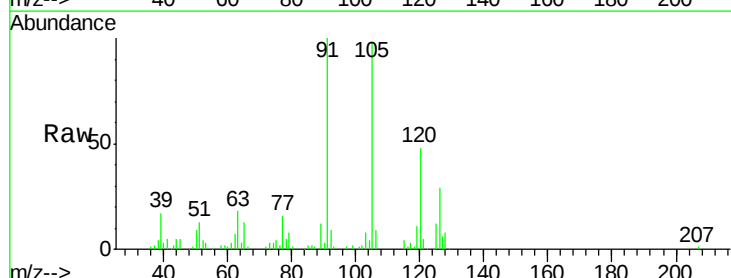
Acq: 26 Nov 2018 15:21

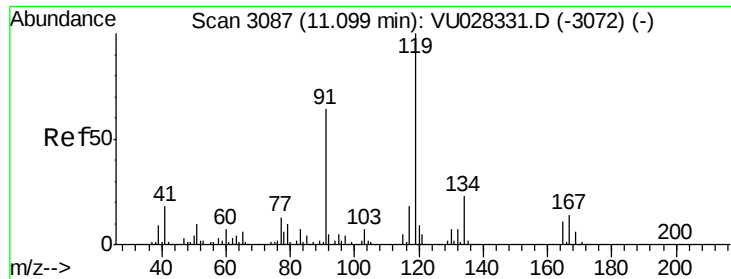
Tgt Ion:126 Resp: 14083

Ion Ratio Lower Upper

126 100

91 368.5 0.0 731.2





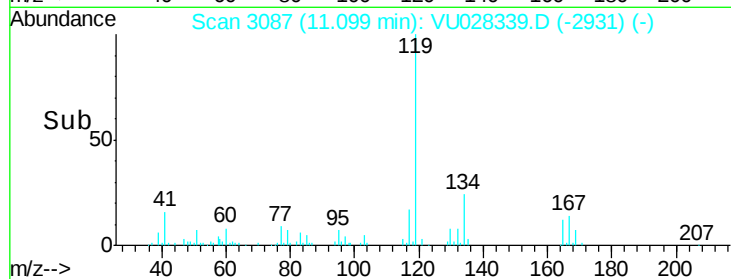
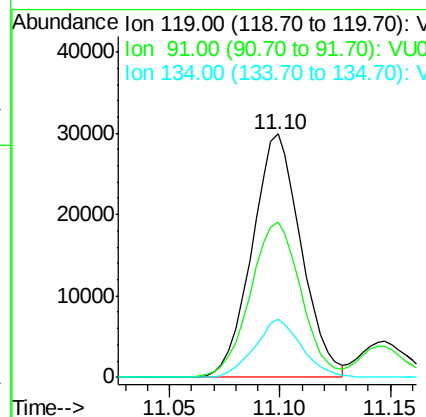
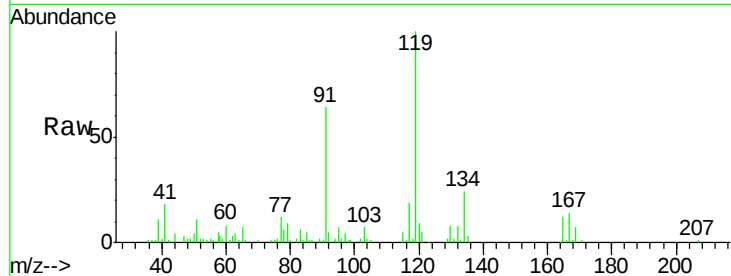
#77
 tert-Butylbenzene
 Concen: 0.932 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	45969		
91	66.2	32.0	96.0	
134	22.9	17.9	26.9	

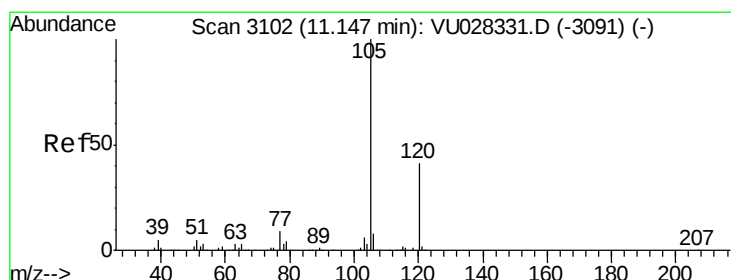
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM



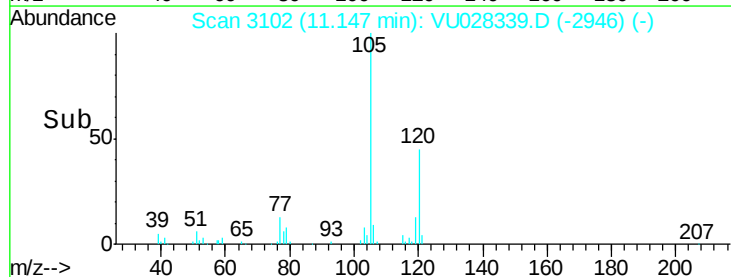
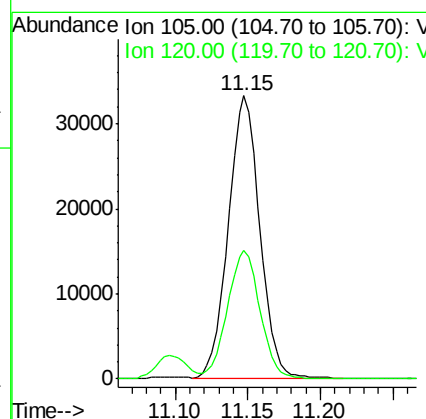
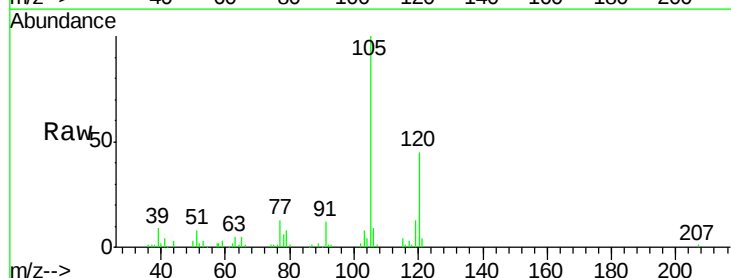
MMDadoda

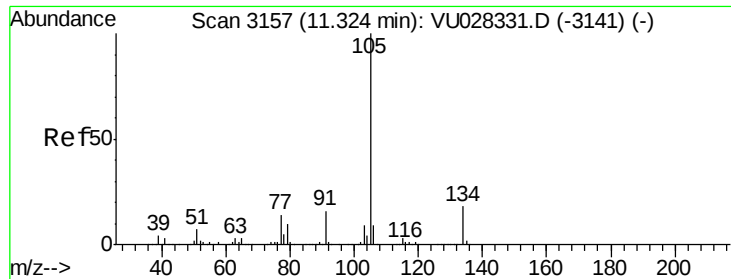
11/30/2018 2:33:43 PM



#78
 1,2,4-Trimethylbenzene
 Concen: 0.940 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	50419		
120	46.7	21.9	65.8	





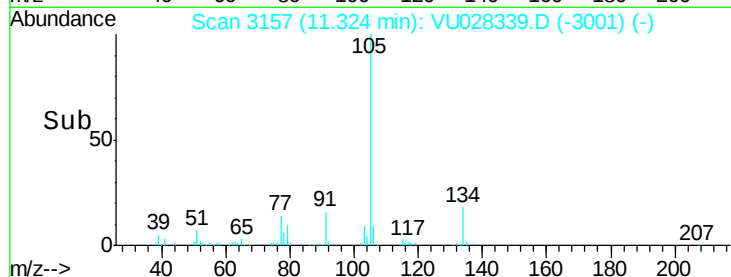
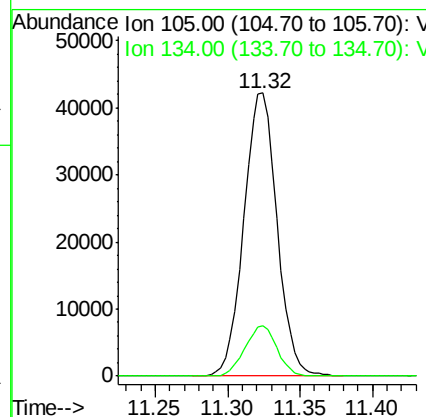
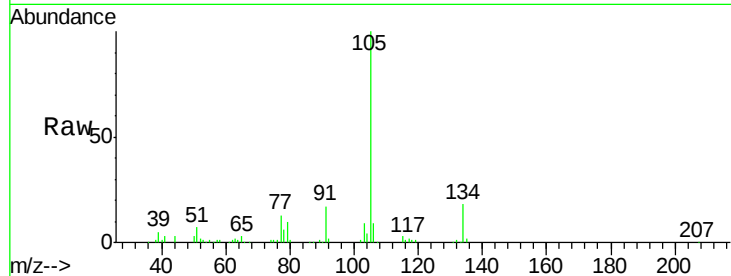
#79
 sec-Butylbenzene
 Concen: 0.977 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
105	100		
134	17.1	14.6	22.0

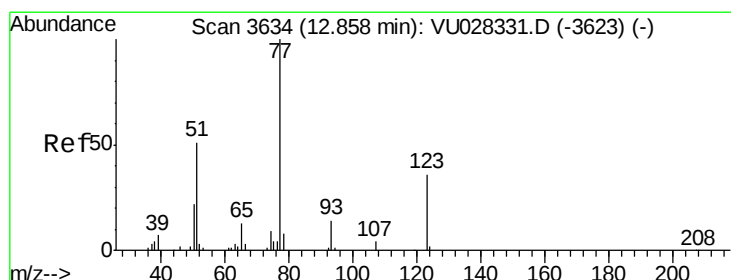
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM



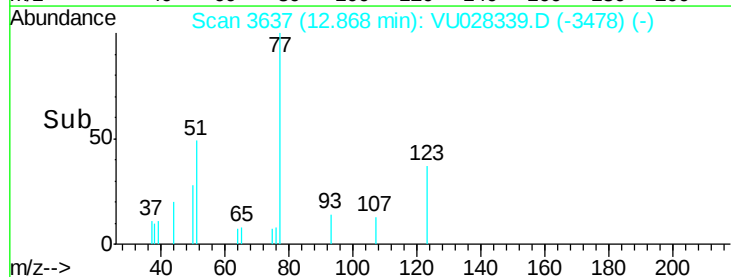
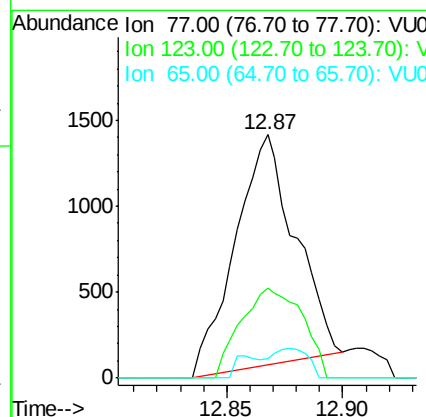
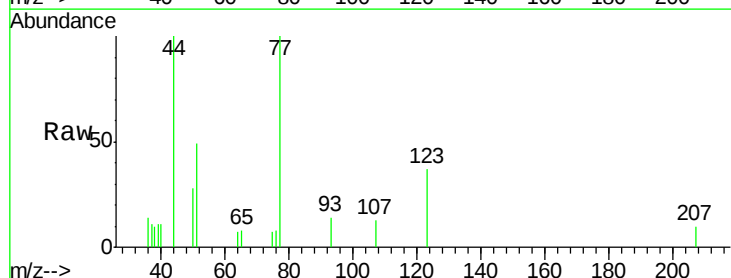
MMDadoda

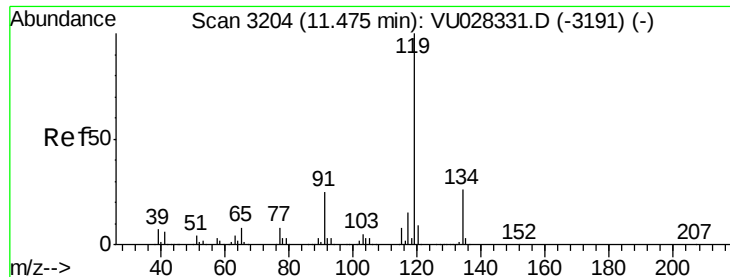
11/30/2018 2:33:43 PM



#80
 Nitrobenzene
 Concen: 3.781 ug/l
 RT: 12.87 min Scan# 3637
 Delta R.T. 0.01 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
77	100		
123	39.9	16.5	58.3
65	8.0	12.1	15.3





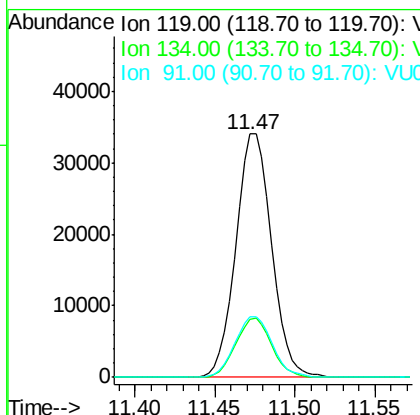
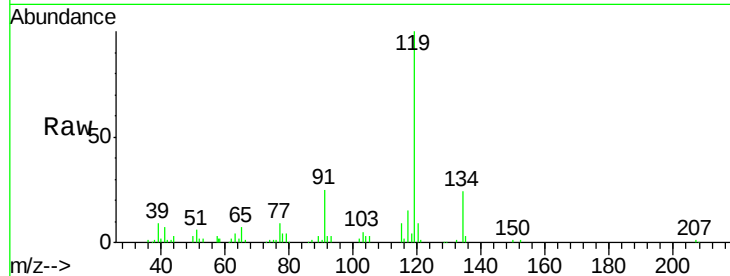
#81
p-Isopropyltoluene
Concen: 0.943 ug/l
RT: 11.47 min Scan# 3203
Delta R.T. -0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.3	20.3	30.5
91	25.9	20.0	30.0

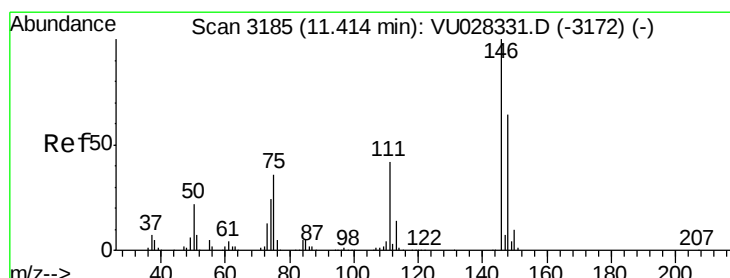
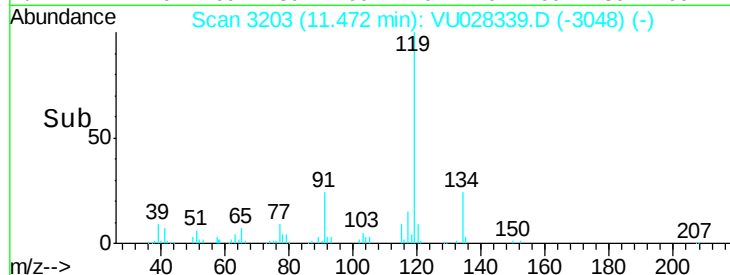
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



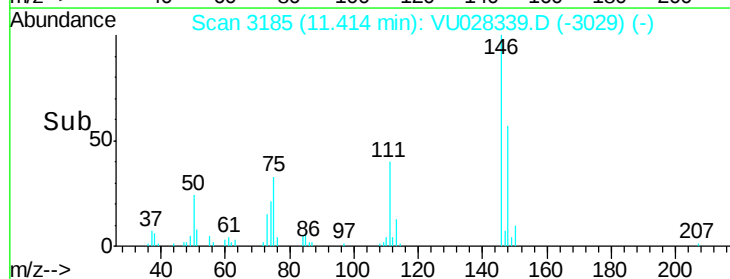
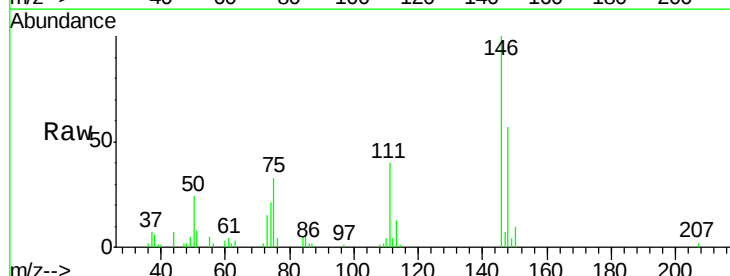
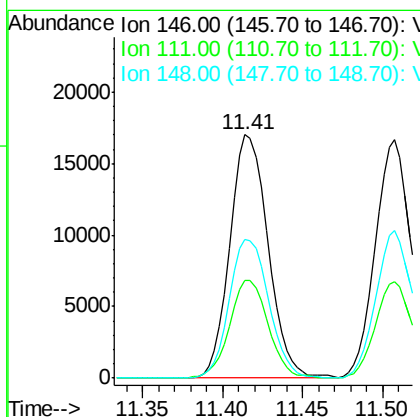
MMDadoda

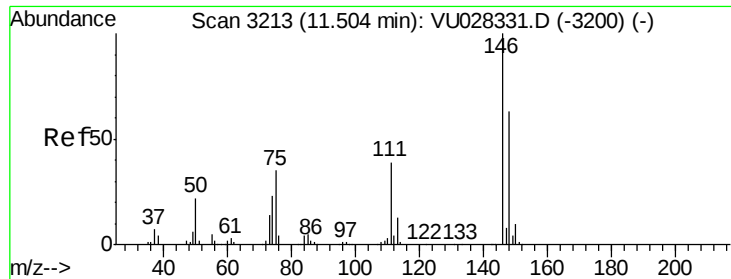
11/30/2018 2:33:43 PM



#82
1,3-Dichlorobenzene
Concen: 1.002 ug/l
RT: 11.41 min Scan# 3185
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.6	33.4	50.2
148	58.9	51.2	76.8





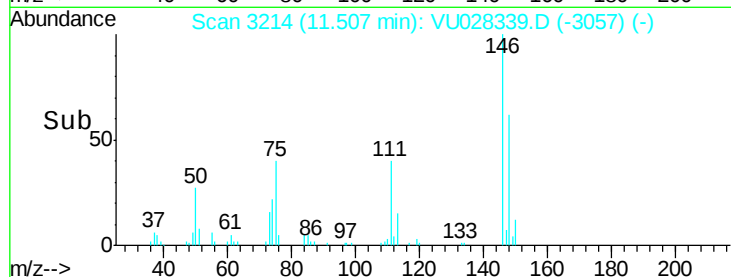
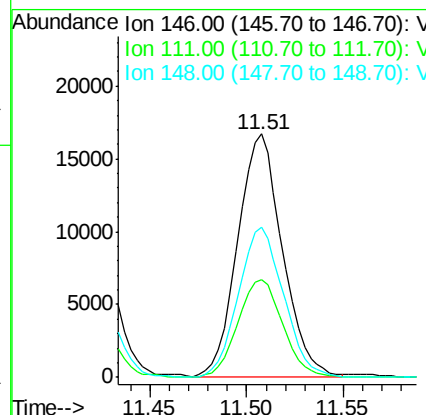
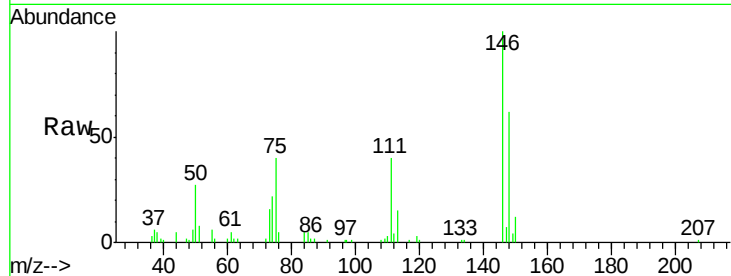
#83
 1,4-Dichlorobenzene
 Concen: 0.977 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	31.4	47.2
148	62.0	50.7	76.1

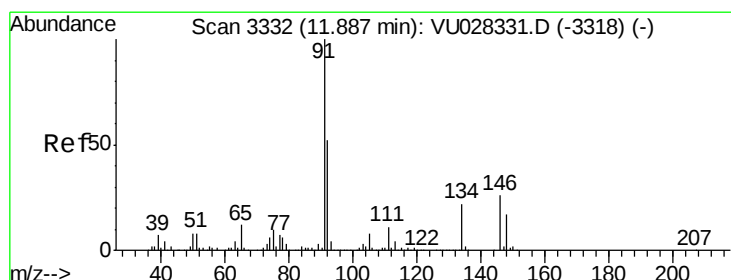
Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM



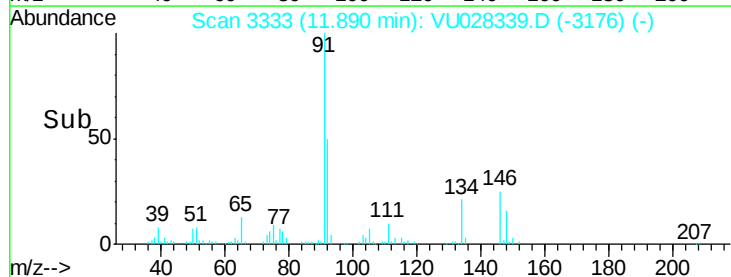
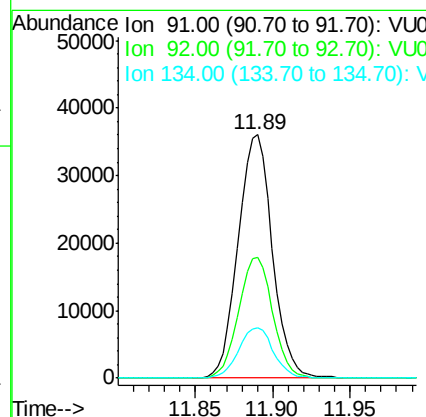
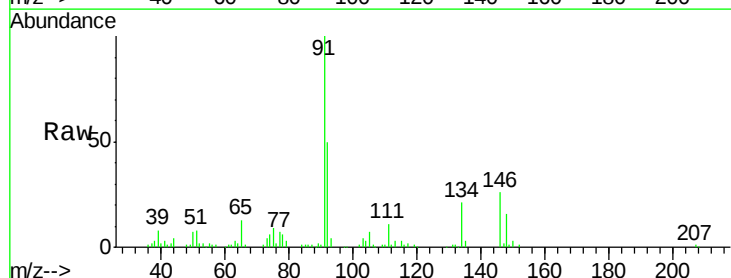
MMDadoda

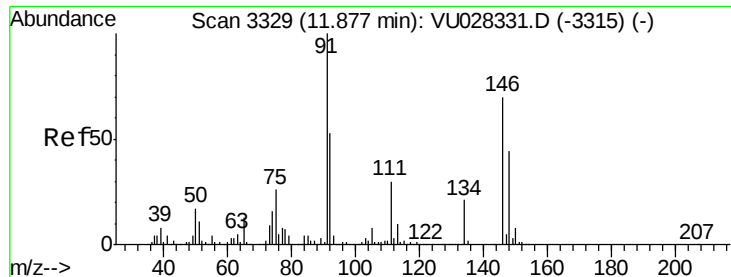
11/30/2018 2:33:43 PM



#84
 n-Butylbenzene
 Concen: 0.966 ug/l
 RT: 11.89 min Scan# 3333
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	49.2	41.6	62.4
134	21.0	17.8	26.6





#85

1,2-Dichlorobenzene

Concen: 1.011 ug/l

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Instrument :

MSVOA_U

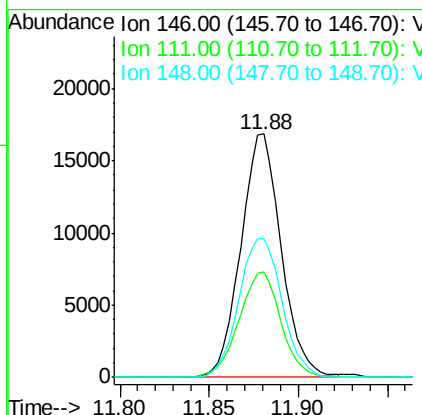
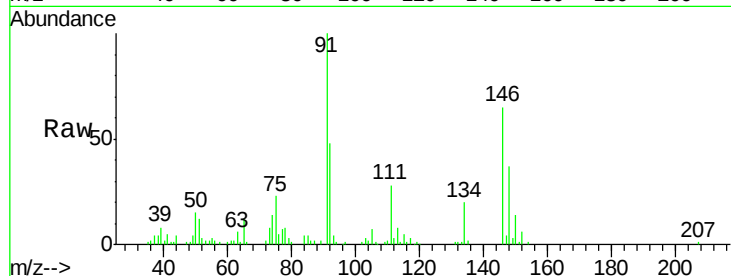
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:	146	Resp:	26630
Ion Ratio	Lower	Upper	
146	100		
111	44.8	21.4	64.3
148	60.7	31.4	94.2

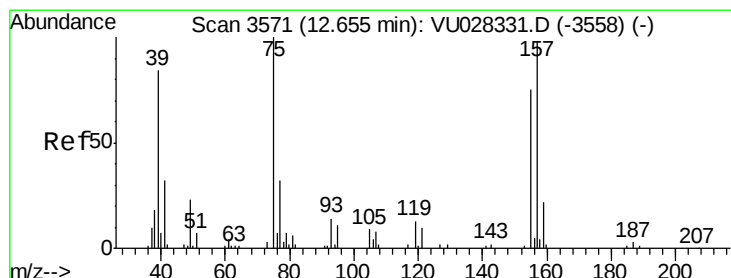
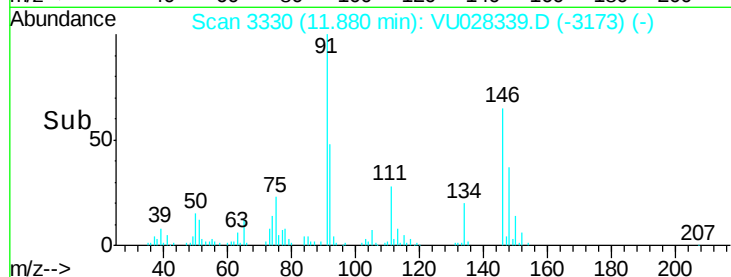
Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM



MMDadoda

11/30/2018 2:33:43 PM



#86

1,2-Dibromo-3-Chloropropane

Concen: 0.934 ug/l

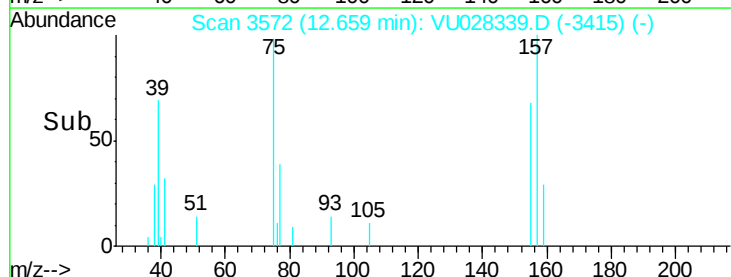
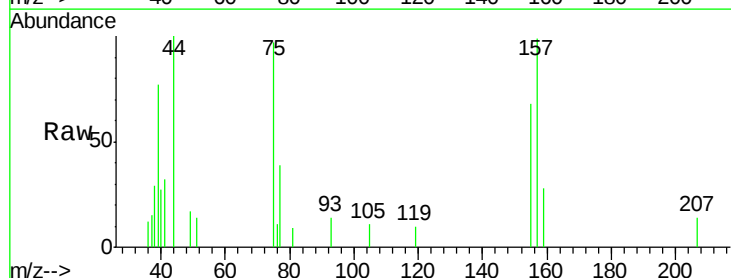
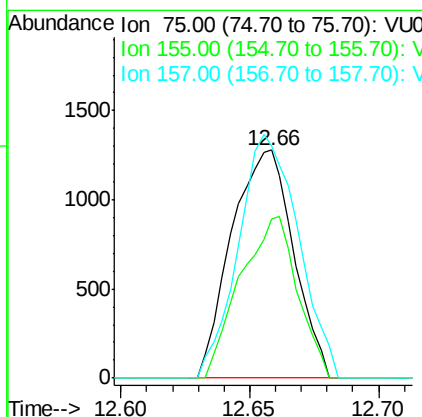
RT: 12.66 min Scan# 3572

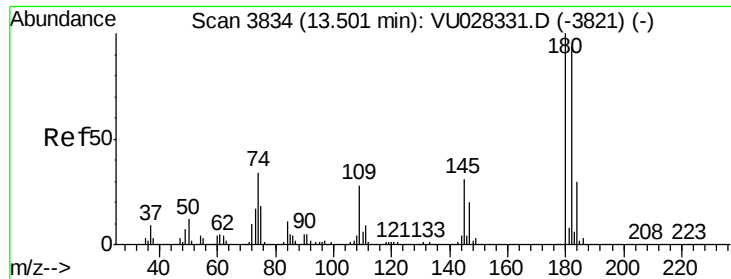
Delta R.T. 0.00 min

Lab File: VU028339.D

Acq: 26 Nov 2018 15:21

Tgt Ion:	75	Resp:	2144
Ion Ratio	Lower	Upper	
75	100		
155	65.2	57.0	85.4
157	103.5	75.4	113.2





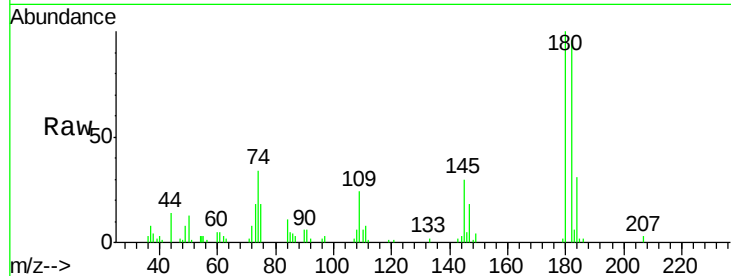
#87
 1,2,4-Trichlorobenzene
 Concen: 0.924 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

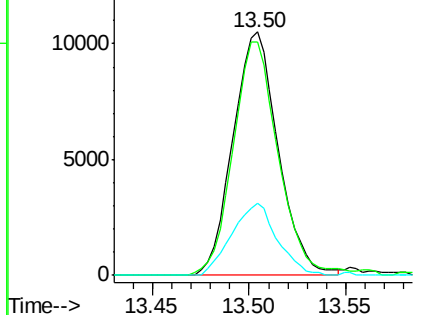
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	17102		
182	95.9	75.6	113.4	
145	29.7	24.4	36.6	

Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 2:33:43 PM

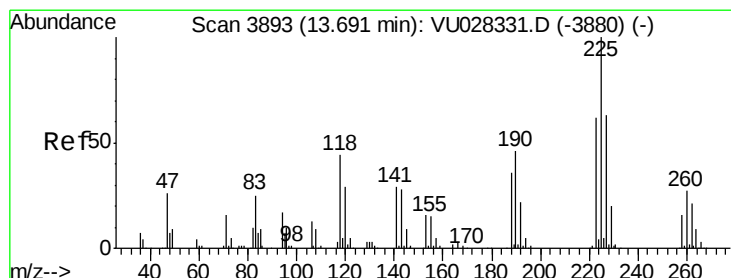
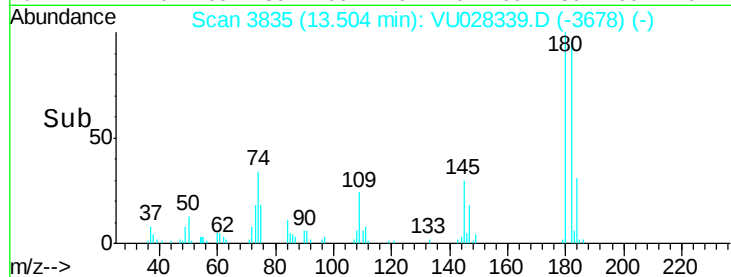


Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



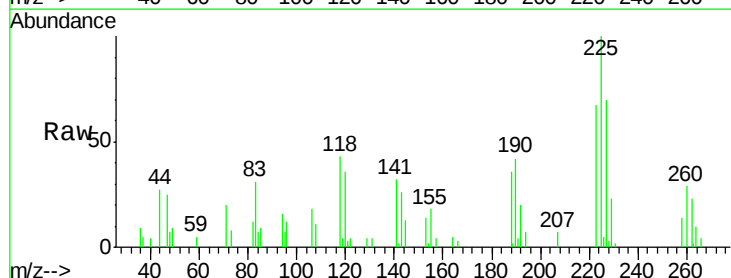
MMDadoda

11/30/2018 2:33:43 PM

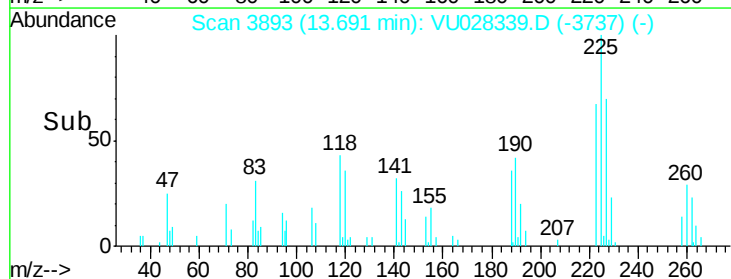
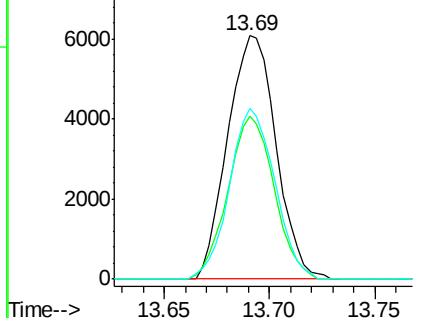


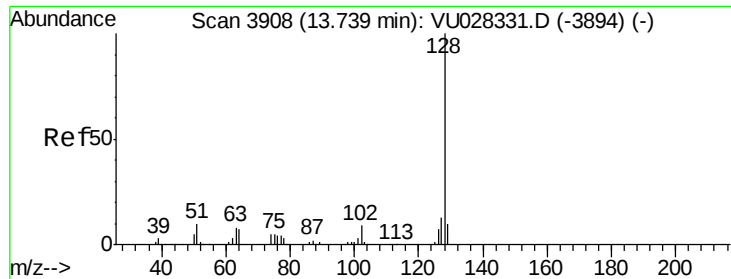
#88
 Hexachlorobutadiene
 Concen: 0.968 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU028339.D
 Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	9692		
223	63.8	50.6	76.0	
227	65.5	50.8	76.2	



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





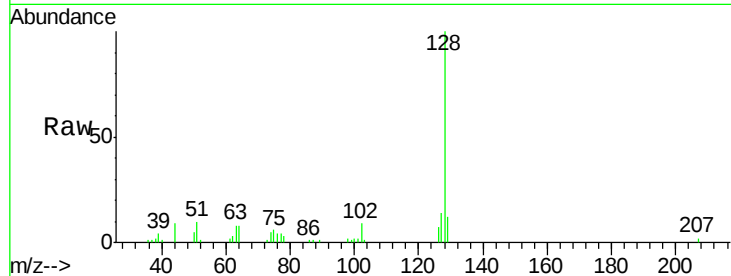
#89
Naphthalene
Concen: 0.865 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2018

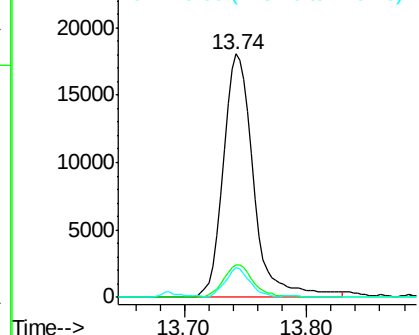
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	31647		
127	13.1	10.3	15.5	
129	9.9	8.2	12.4	

Manual Integrations
APPROVED

MMDadoda
11/30/2018 2:33:43 PM

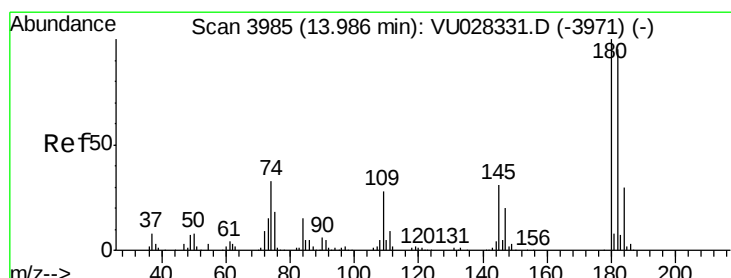
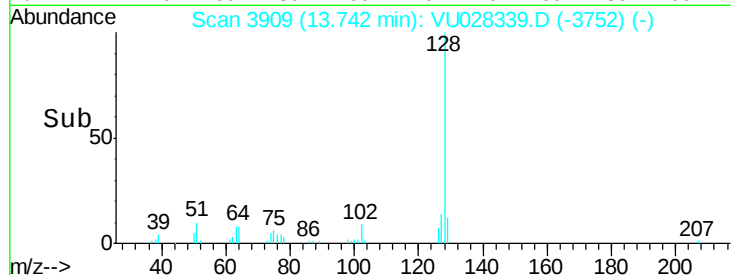


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



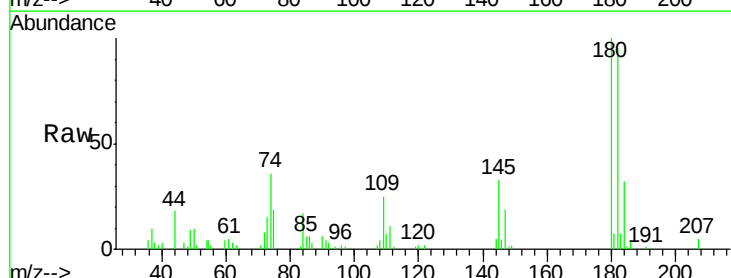
MMDadoda

11/30/2018 2:33:43 PM



#90
1,2,3-Trichlorobenzene
Concen: 0.964 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028339.D
Acq: 26 Nov 2018 15:21

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	16834		
182	93.9	76.1	114.1	
145	31.2	26.0	39.0	



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

