

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102919\
 Data File : VU035544.D
 Acq On : 29 Oct 2019 17:59
 Operator : JC/SP
 Sample : K5111-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

Quant Time: Oct 30 07:13:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U102919DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Oct 30 07:04:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.16	96	62647	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.67	95	17953	0.80	ug/l	0.00	
Spiked Amount	1.000		Recovery	=	80.00%		
68) 1,2-Dichlorobenzene-d4	12.23	152	19282	0.80	ug/l	0.00	MMDadoda
Spiked Amount	1.000		Recovery	=	80.00%		

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.40	85	13425	0.547	ug/l	95
3) Chloromethane	1.54	50	17979	0.598	ug/l	99
4) Vinyl Chloride	1.63	62	14784	0.555	ug/l	94
5) Bromomethane	1.88	94	7371	0.544	ug/l	95
6) Chloroethane	1.96	64	9271	0.605	ug/l	94
7) Trichlorofluoromethane	2.16	101	18341	0.557	ug/l	93
8) 1,1,2-Trichloro-1,2,2-trif	2.61	101	9728	0.545	ug/l	98
9) 1,1-Dichloroethene	2.61	96	9796	0.569	ug/l	100
10) Iodomethane	2.75	142	2548	0.303	ug/l	97
11) Allyl Chloride	2.96	41	15946	0.551	ug/l	100
12) Acrylonitrile	3.37	53	5333	1.234	ug/l	96
13) Acetone	2.67	43	11014	2.626	ug/l	93
14) Carbon Disulfide	2.83	76	34666	0.569	ug/l	98
15) Methylene Chloride	3.09	84	15718	0.710	ug/l	97
16) trans-1,2-Dichloroethene	3.39	96	10748	0.568	ug/l	97
17) 1,1-Dichloroethane	3.92	63	20452	0.577	ug/l	99
18) 2-Butanone	4.79	43	11602	2.134	ug/l	88
19) Cyclohexane	5.43	56	12715m	0.452	ug/l	
20) Methylcyclohexane	6.80	83	12612	0.437	ug/l	91
21) 2,2-Dichloropropane	4.72	77	16389	0.535	ug/l	100
22) cis-1,2-Dichloroethene	4.72	96	11000	0.543	ug/l	96
23) Diethyl Ether	2.41	59	8232	0.580	ug/l	97
24) tert-Butyl Alcohol	3.26	59	12201	7.711	ug/l #	79
25) Methyl tert-Butyl Ether	3.43	73	26148	0.566	ug/l #	89
26) Bromochloromethane	5.04	128	4782	0.529	ug/l	95
27) Chloroform	5.14	83	23613	0.623	ug/l	94
28) 1,1,1-Trichloroethane	5.36	97	17211	0.573	ug/l	95
29) 1,1-Dichloropropene	5.57	75	12518	0.497	ug/l	99
30) Carbon Tetrachloride	5.57	117	14825	0.555	ug/l	98
31) Isopropyl Ether	4.07	45	25443	0.514	ug/l	91
32) Ethyl-t-butyl ether	4.58	59	22305	0.486	ug/l	99
33) Tert-Amyl methyl ether	6.01	73	18057	0.458	ug/l	96
34) Propionitrile	4.86	54	3971	2.522	ug/l #	79
35) Benzene	5.82	78	40776	0.531	ug/l	98
36) 1,2-Dichloroethane	5.85	62	11521	0.523	ug/l	100
37) Trichloroethene	6.59	130	11179	0.524	ug/l	98
38) 1,2-Dichloropropane	6.84	63	11296	0.536	ug/l	90
39) Methacrylonitrile	5.04	41	2350	0.397	ug/l #	87
40) Methyl acrylate	4.92	55	3689	0.410	ug/l #	78
41) Tetrahydrofuran	5.15	42	3216	1.058	ug/l #	31
42) 1-Chlorobutane	5.50	56	17073	0.493	ug/l	98

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 LOQ-WATER-02-QT4-2019

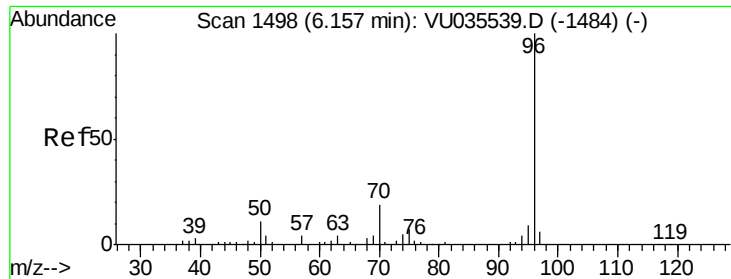
Manual Integrations
 APPROVED

Quant Time: Oct 30 07:13:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U102919DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

43) Dibromomethane	6.96	93	5357	0.509	ug/l	95
44) Bromodichloromethane	7.15	83	14721	0.561	ug/l	99
45) 4-Methyl-2-Pentanone	7.86	43	26763	2.385	ug/l #	89
46) t-1,4-Dichloro-2-butene	10.88	75	4229m	1.037	ug/l	
47) Methyl methacrylate	7.02	69	7044	0.808	ug/l #	79
48) Ethyl methacrylate	8.38	69	5373m	0.353	ug/l	MMDadoda
49) Toluene	8.01	92	20915	0.473	ug/l	100
50) t-1,3-Dichloropropene	8.26	75	10657	0.459	ug/l	94
51) cis-1,3-Dichloropropene	7.65	75	12887	0.468	ug/l	96
52) 1,1,2-Trichloroethane	8.44	97	7772	0.527	ug/l	98
53) 1,3-Dichloropropane	8.62	76	11444	0.458	ug/l	94 10/30/2019 10:39:14 AM
54) 2-Hexanone	8.77	43	15922	1.997	ug/l	77
55) Dibromochloromethane	8.84	129	9760	0.542	ug/l	99
56) 1,2-Dibromoethane	8.97	107	7228	0.536	ug/l	92
58) Tetrachloroethene	8.59	164	10473	0.535	ug/l	95
59) Chlorobenzene	9.48	112	24091	0.473	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.57	131	10925	0.558	ug/l	99
61) Pentachloroethane	11.46	117	9513	0.596	ug/l	89
62) Hexachloroethane	12.50	117	7375	0.506	ug/l	100
63) Ethyl Benzene	9.61	91	32704	0.413	ug/l	93
64) m/p-Xylenes	9.73	106	21335	0.683	ug/l #	1
65) o-Xylene	10.14	106	12460	0.413	ug/l	88
66) Styrene	10.16	104	18431	0.369	ug/l	97
67) Bromoform	10.33	173	5173	0.463	ug/l #	92
69) Isopropylbenzene	10.52	105	31883	0.405	ug/l	97
70) 1,1,2,2-Tetrachloroethane	10.82	83	9570	0.487	ug/l #	56
71) 1,2,3-Trichloropropane	10.86	75	7477m	0.506	ug/l	
72) Bromobenzene	10.82	156	10070	0.459	ug/l	78
73) n-propylbenzene	10.94	120	7819	0.356	ug/l	88
74) 2-Chlorotoluene	11.02	126	8146	0.395	ug/l	87
75) 1,3,5-Trimethylbenzene	11.12	105	21324	0.329	ug/l	100
76) 4-Chlorotoluene	11.14	126	6978	0.333	ug/l	86
77) tert-Butylbenzene	11.45	119	25066	0.377	ug/l	99
78) 1,2,4-Trimethylbenzene	11.50	105	20735	0.316	ug/l	100
79) sec-Butylbenzene	11.67	105	26532	0.312	ug/l	99
80) Nitrobenzene	13.24	77	894	1.357	ug/l #	72
81) p-Isopropyltoluene	11.83	119	19782	0.291	ug/l #	69
82) 1,3-Dichlorobenzene	11.78	146	16470	0.394	ug/l	98
83) 1,4-Dichlorobenzene	11.87	146	14720	0.368	ug/l	98
84) n-Butylbenzene	12.24	91	13114	0.235	ug/l	99
85) 1,2-Dichlorobenzene	12.25	146	15506	0.394	ug/l	96
86) 1,2-Dibromo-3-Chloropropan	13.03	75	1034	0.413	ug/l	94
87) 1,2,4-Trichlorobenzene	13.87	180	4493	0.318	ug/l	92
88) Hexachlorobutadiene	14.04	225	5507	0.376	ug/l	94
89) Naphthalene	14.11	128	5841	0.303	ug/l	97
90) 1,2,3-Trichlorobenzene	14.36	180	4665	0.323	ug/l	98

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.16 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

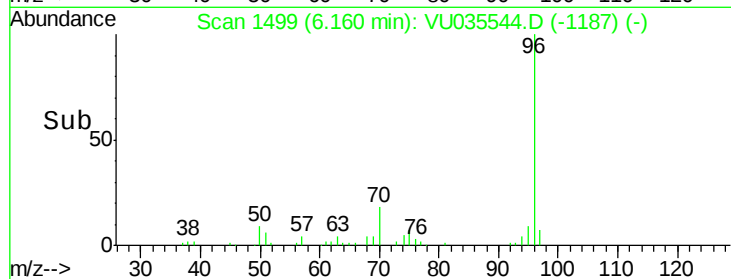
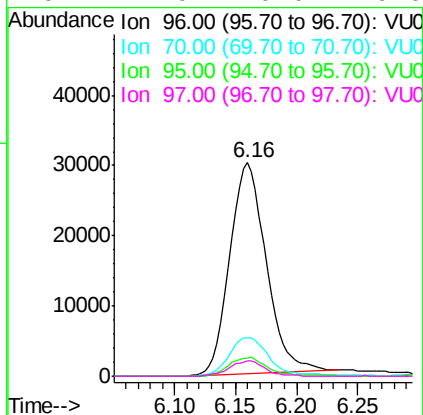
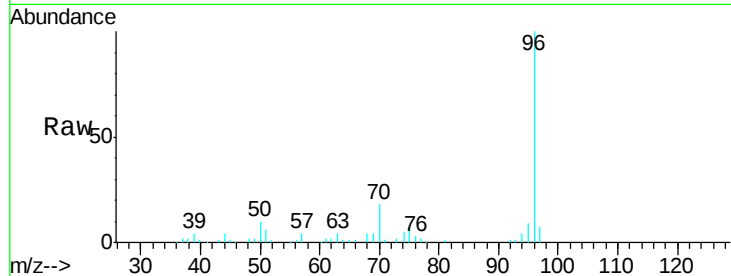
MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

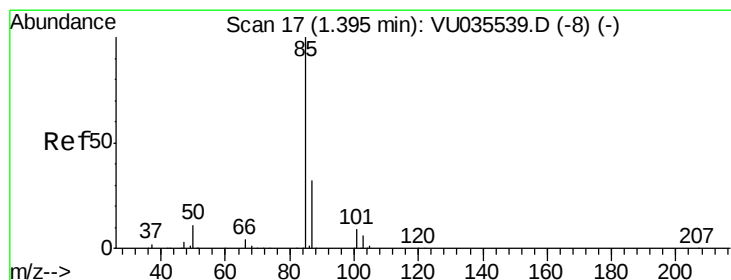
Tgt Ion	Ratio	Lower	Upper
96	100		
70	20.6	15.8	23.8
95	8.8	7.4	11.2
97	7.0	0.0	0.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.547 ug/l

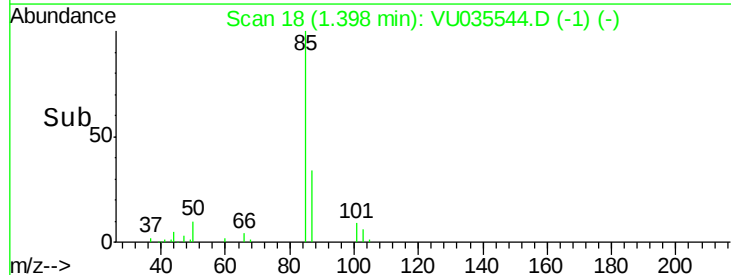
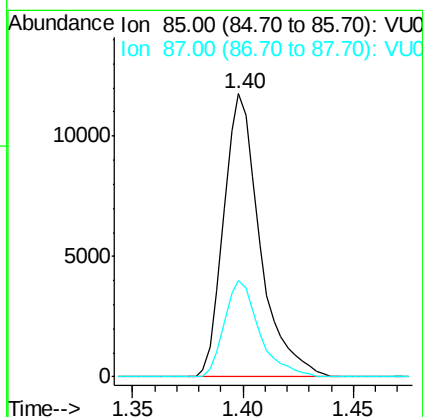
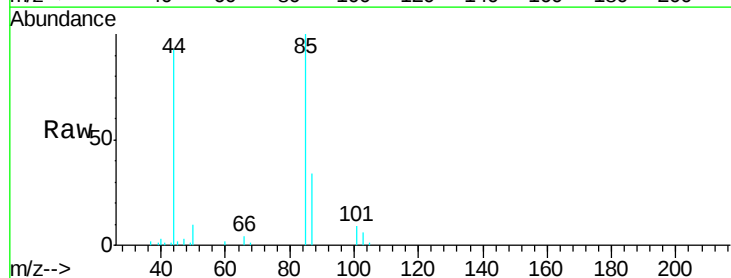
RT: 1.40 min Scan# 18

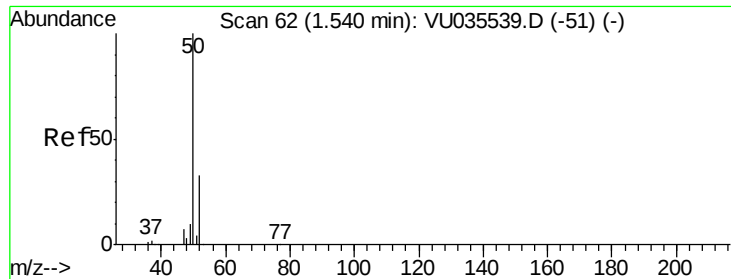
Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.3	15.8	47.4





#3

Chloromethane

Concen: 0.598 ug/l

RT: 1.54 min Scan# 62

Delta R.T. -0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

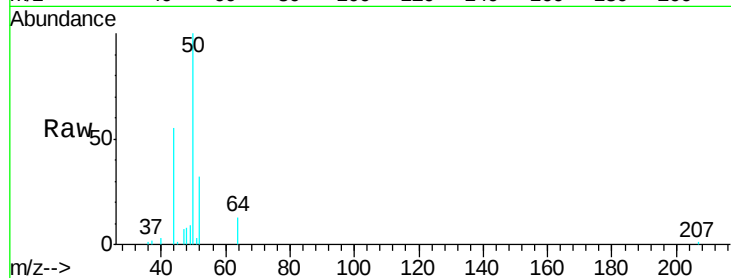
Tgt Ion: 50 Resp: 17979

Ion Ratio Lower Upper

50 100

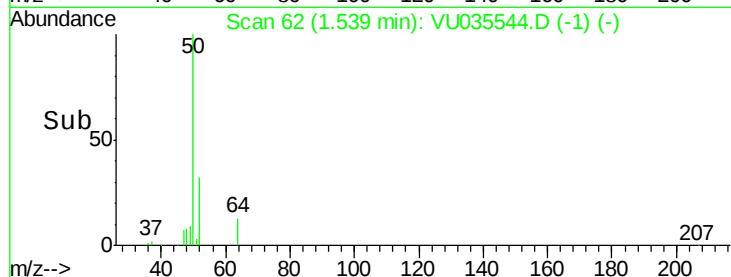
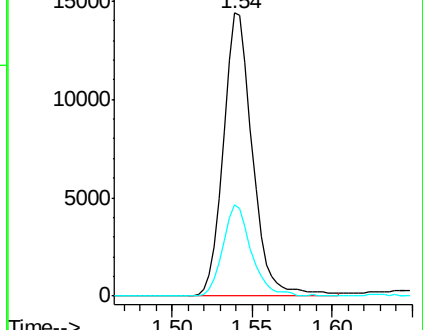
52 32.1 26.0 39.0

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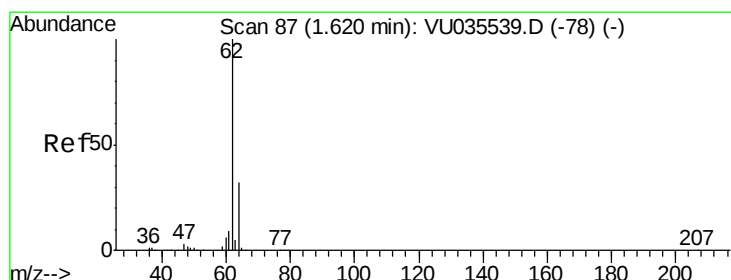
Abundance Ion 50.00 (49.70 to 50.70): VU035539.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU035539.D (-51) (-)



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10/30/2019 10:39:14 AM



#4

Vinyl Chloride

Concen: 0.555 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VU035544.D

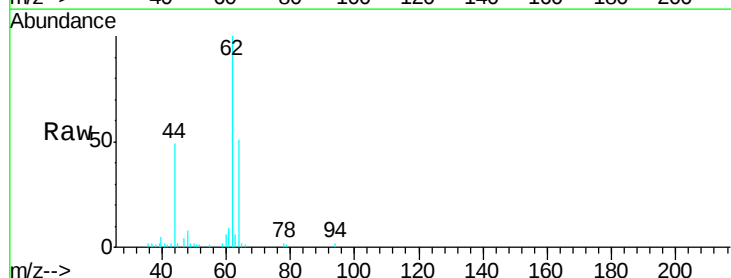
Acq: 29 Oct 2019 17:59

Tgt Ion: 62 Resp: 14784

Ion Ratio Lower Upper

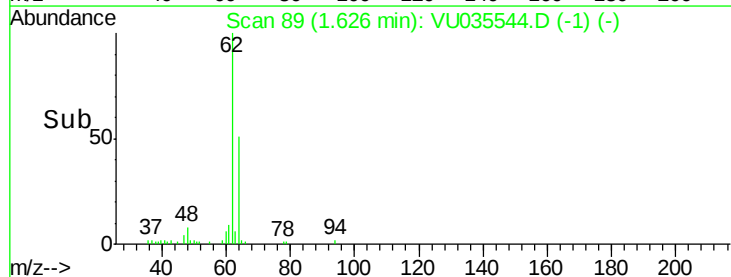
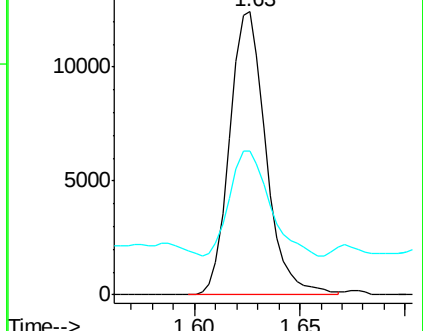
62 100

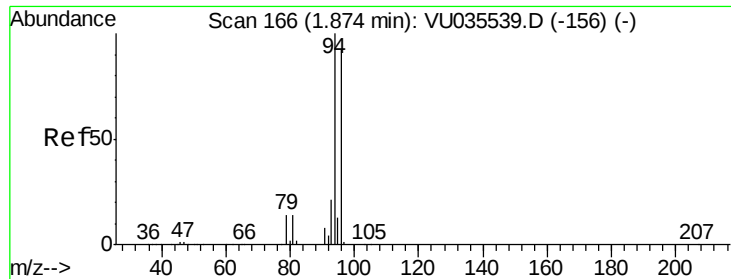
64 35.4 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VU035539.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU035539.D (-78) (-)





#5

Bromomethane

Concen: 0.544 ug/l

RT: 1.88 min Scan# 168

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

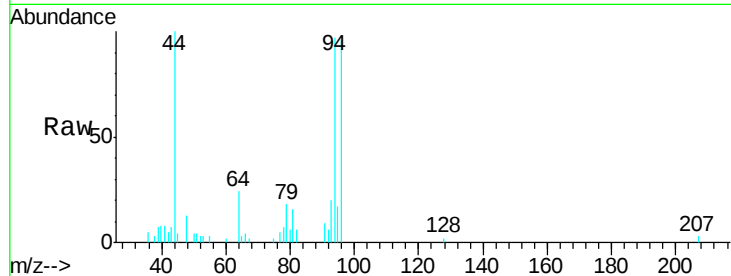
Tgt Ion: 94 Resp: 7371

Ion Ratio Lower Upper

94 100

96 96.8 73.8 110.8

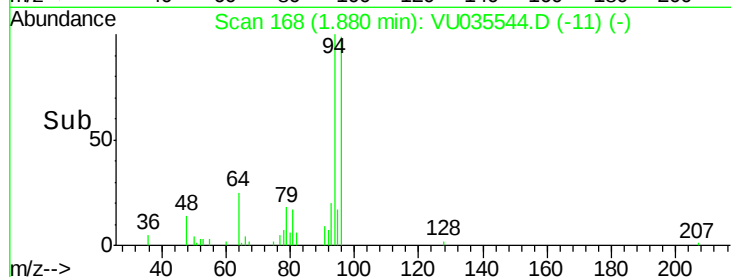
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Abundance Ion 94.00 (93.70 to 94.70): VU035539.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035539.D (-156) (-)

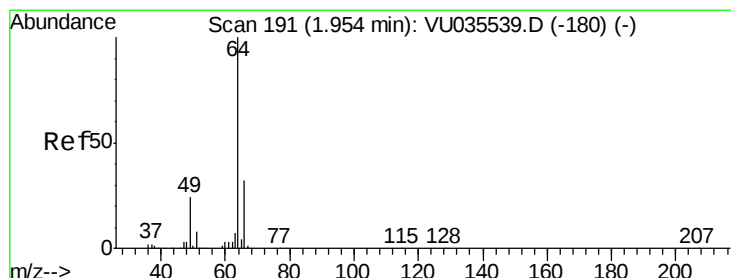
Time-->



Time-->

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10/30/2019 10:39:14 AM



#6

Chloroethane

Concen: 0.605 ug/l

RT: 1.96 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU035544.D

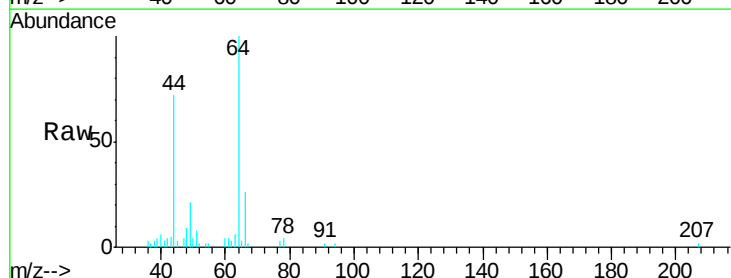
Acq: 29 Oct 2019 17:59

Tgt Ion: 64 Resp: 9271

Ion Ratio Lower Upper

64 100

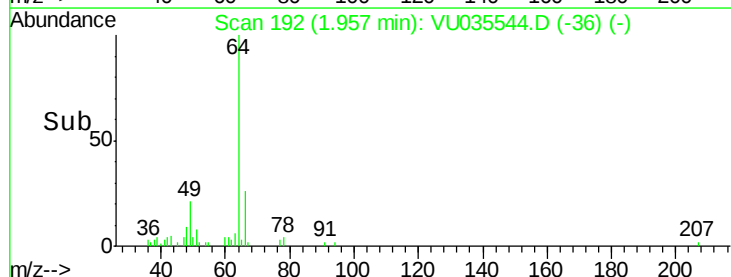
66 29.2 25.9 38.9



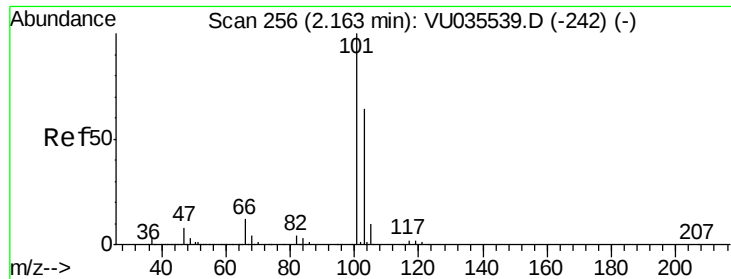
Abundance Ion 64.00 (63.70 to 64.70): VU035539.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU035539.D (-180) (-)

Time-->



Time-->



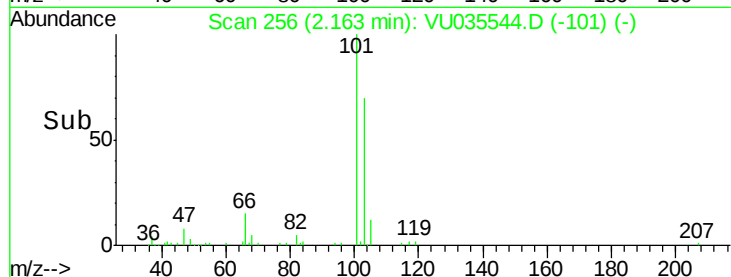
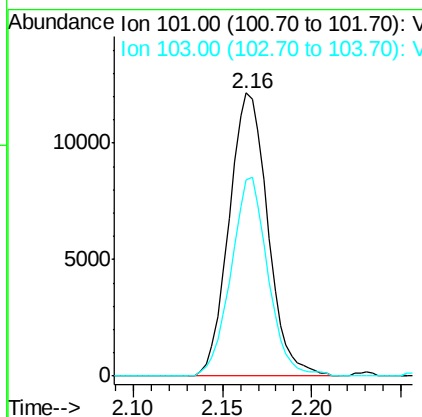
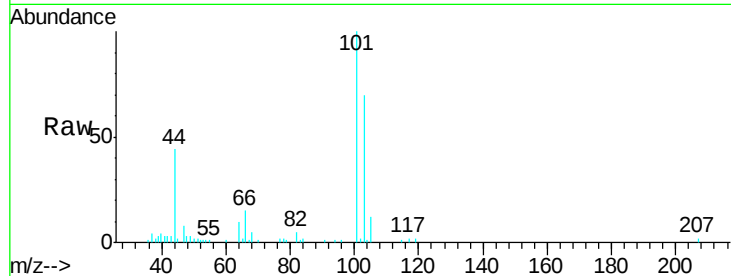
#7

Trichlorofluoromethane
Concen: 0.557 ug/l
RT: 2.16 min Scan# 256
Delta R.T. -0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
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LOQ-WATER-02-QT4-2019

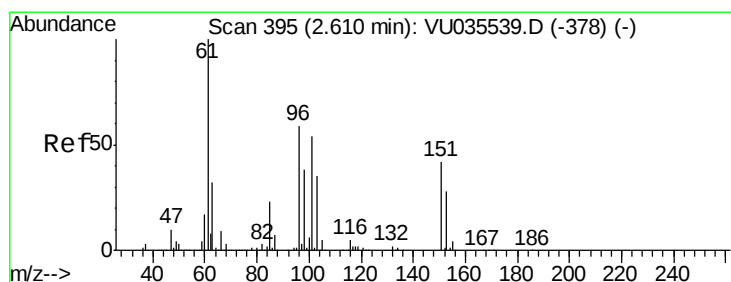
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	18341		
103	69.5	51.0	76.6	

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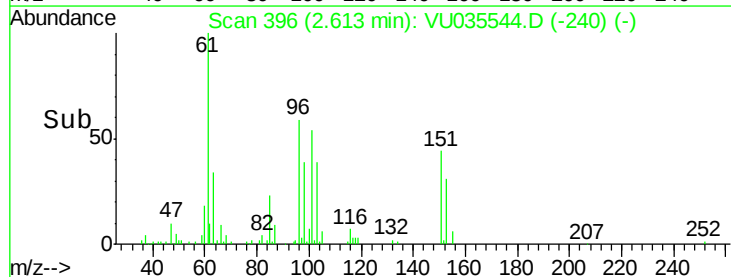
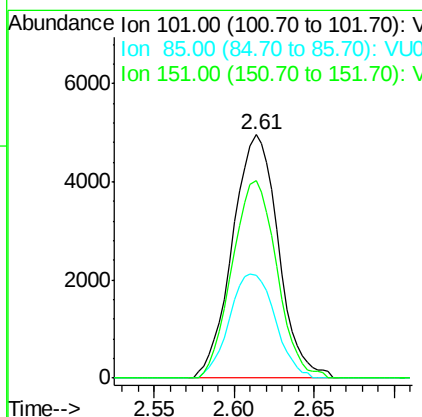
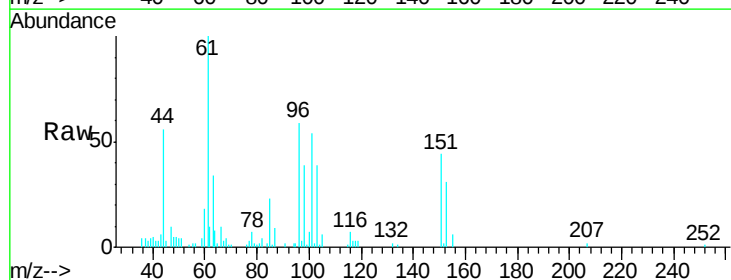
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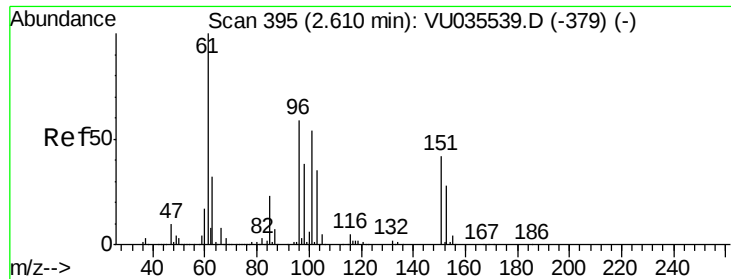


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.545 ug/l
RT: 2.61 min Scan# 396
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	9728		
85	42.6	35.8	53.6	
151	78.9	61.8	92.6	



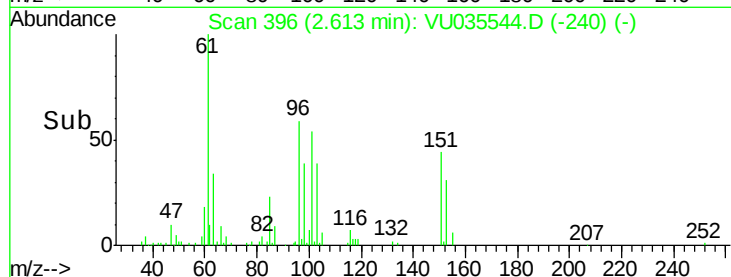
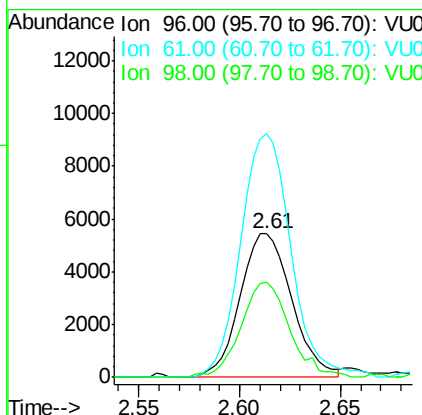
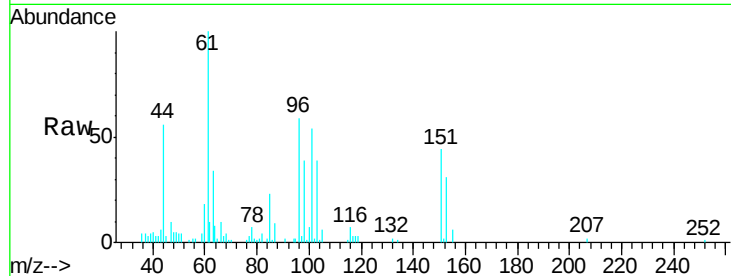


#9
 1,1-Dichloroethene
 Concen: 0.569 ug/l
 RT: 2.61 min Scan# 396
 Delta R.T. 0.00 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

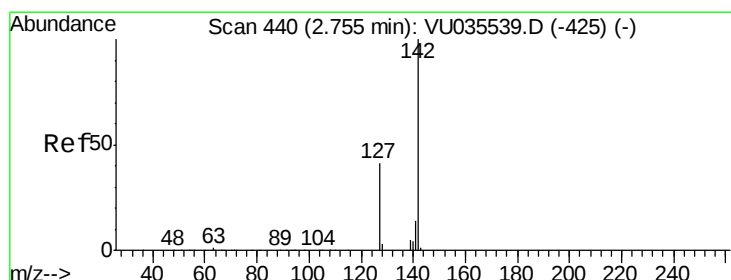
Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.6	0.0	508.8
98	66.2	0.0	130.4

Manual Integrations
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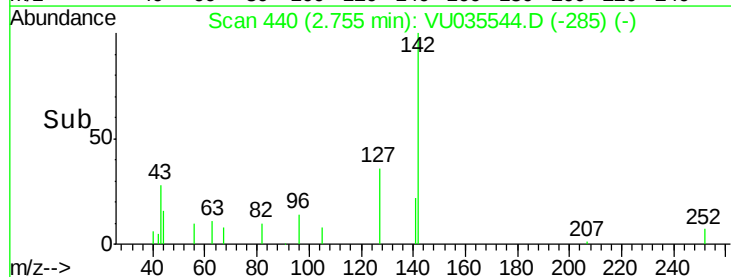
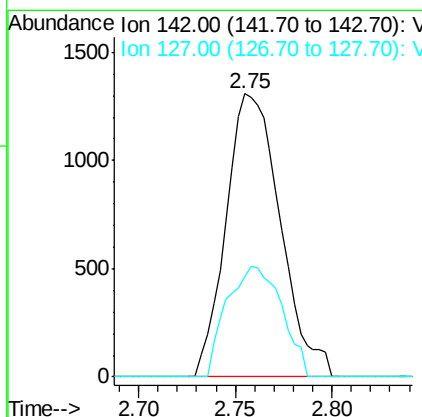
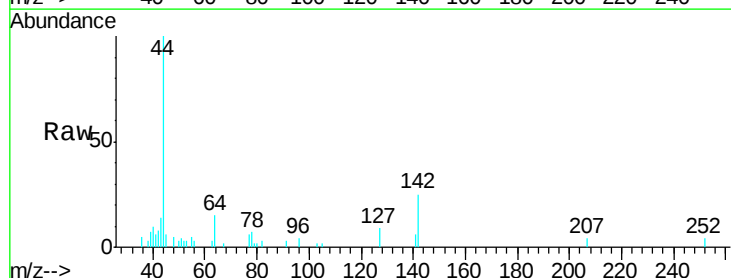
MMDadoda

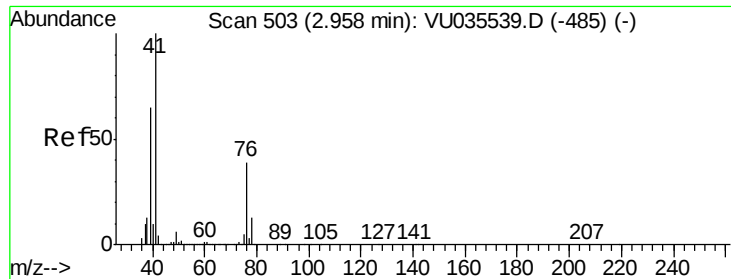
10/30/2019 10:39:14 AM



#10
 Iodomethane
 Concen: 0.303 ug/l
 RT: 2.75 min Scan# 440
 Delta R.T. -0.00 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
142	100		
127	39.6	33.4	50.0



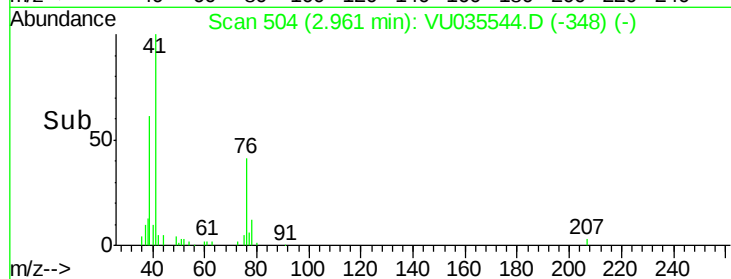
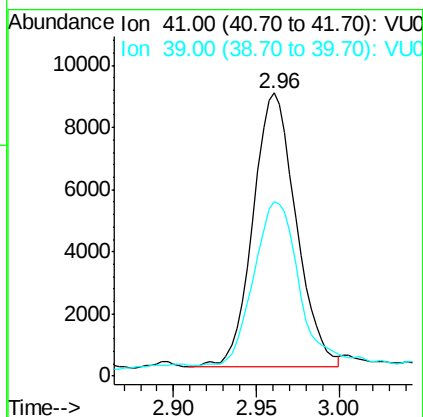
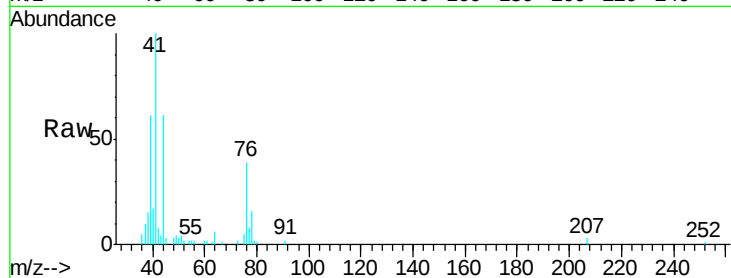


#11
 Allyl Chloride
 Concen: 0.551 ug/l
 RT: 2.96 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

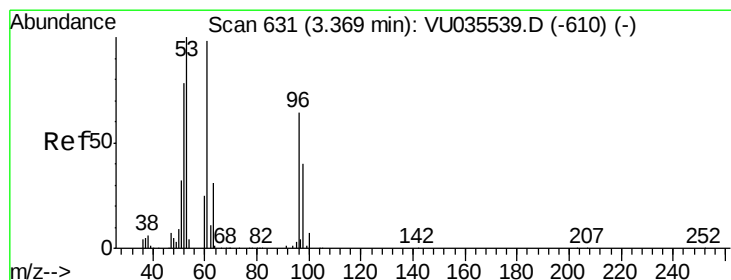
Tgt Ion: 41 Resp: 15946
 Ion Ratio Lower Upper
 41 100
 39 65.2 52.0 78.0

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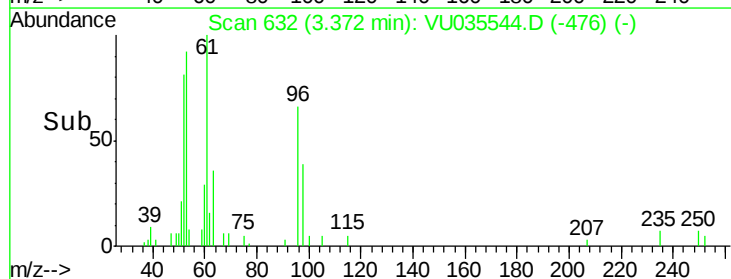
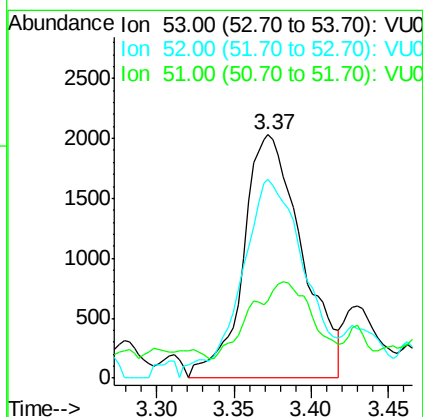
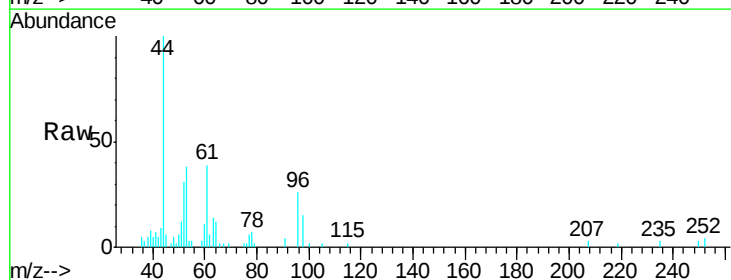
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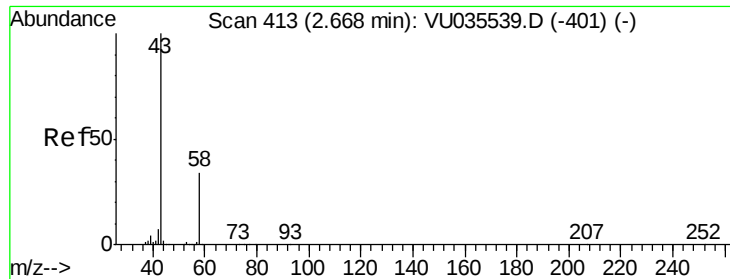
10/30/2019 10:39:14 AM



#12
 Acrylonitrile
 Concen: 1.234 ug/l
 RT: 3.37 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Tgt Ion: 53 Resp: 5333
 Ion Ratio Lower Upper
 53 100
 52 88.4 67.4 101.0
 51 32.9 27.0 40.4





#13

Acetone

Concen: 2.626 ug/l

RT: 2.67 min Scan# 415

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tgt Ion: 43 Resp: 11014

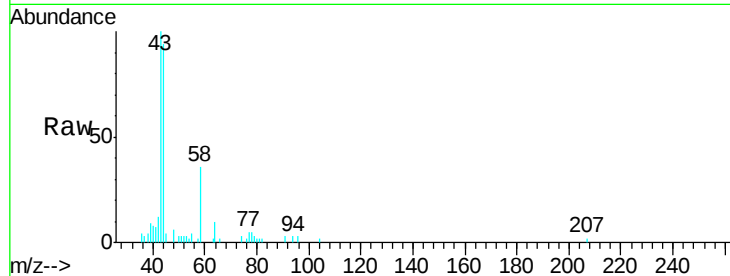
Ion Ratio Lower Upper

43 100

58 38.8 27.6 41.4

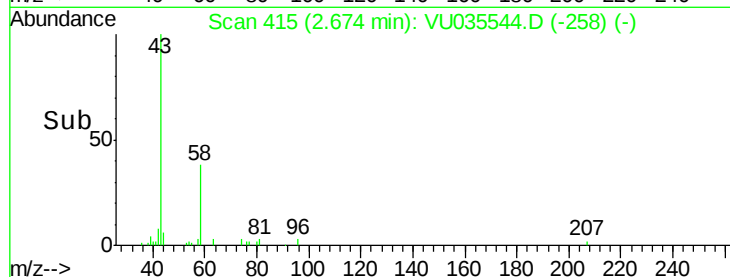
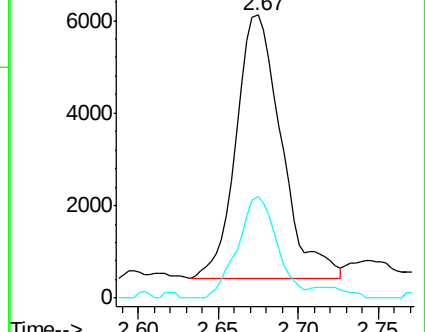
Manual Integrations

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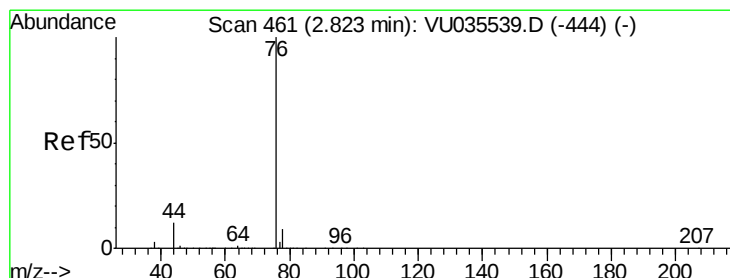
Abundance Ion 43.00 (42.70 to 43.70): VU035539.D (-401) (-)

Ion 58.00 (57.70 to 58.70): VU035539.D (-401) (-)



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10/30/2019 10:39:14 AM



#14

Carbon Disulfide

Concen: 0.569 ug/l

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035544.D

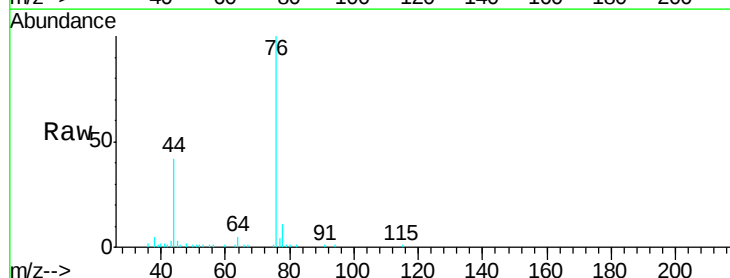
Acq: 29 Oct 2019 17:59

Tgt Ion: 76 Resp: 34666

Ion Ratio Lower Upper

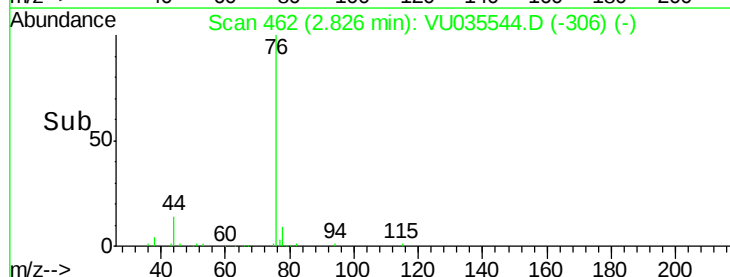
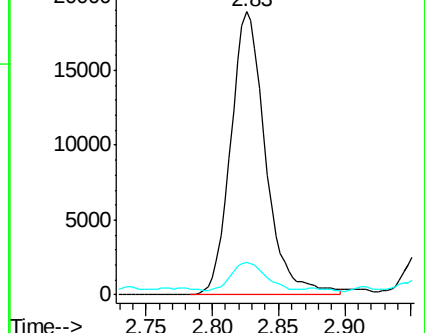
76 100

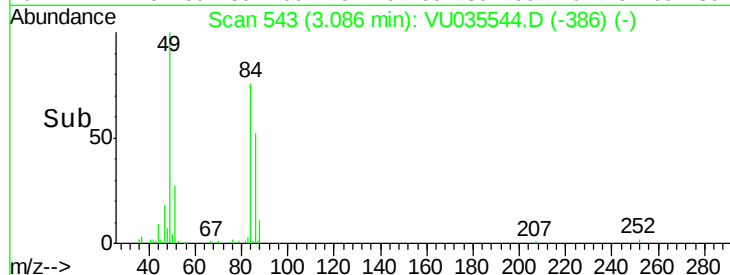
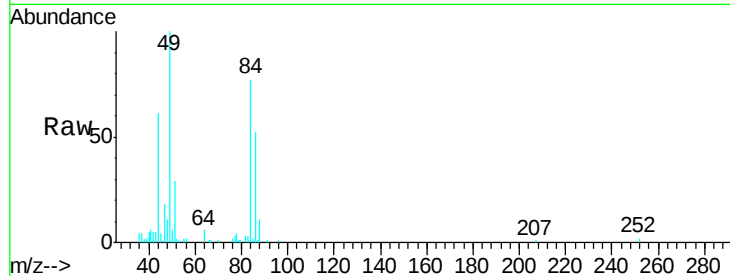
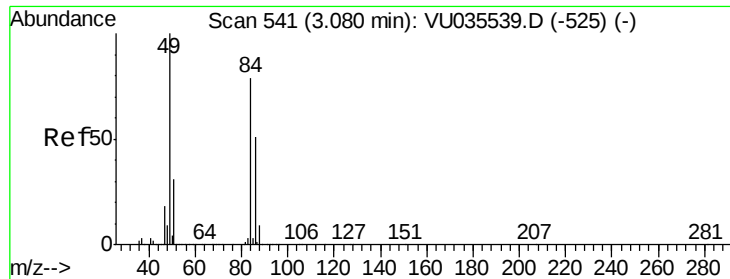
78 10.0 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU035539.D (-444) (-)

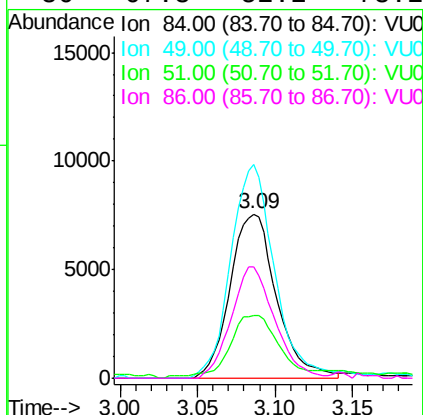
Ion 78.00 (77.70 to 78.70): VU035539.D (-444) (-)





#15
Methylene Chloride
Concen: 0.710 ug/l
RT: 3.09 min Scan# 543
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
84	100		
49	130.3	101.5	152.3
51	36.1	0.0	78.6
86	67.8	52.2	78.2

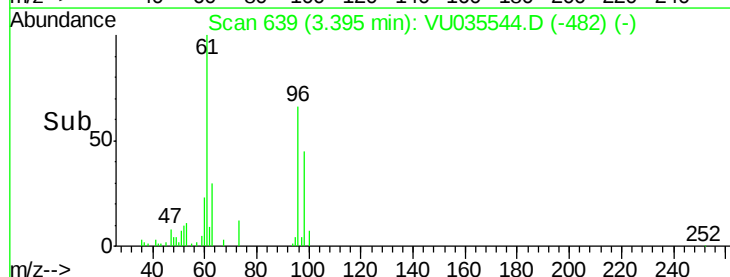
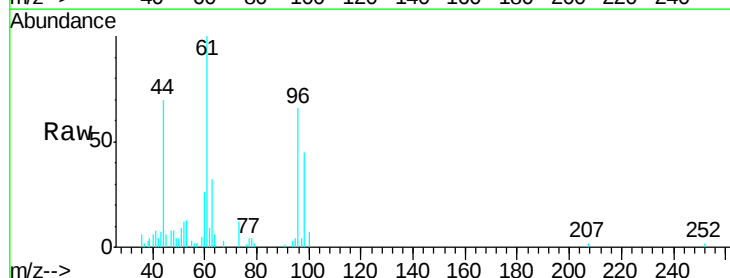
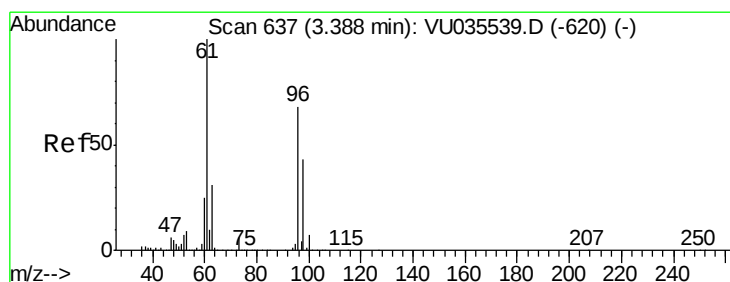


Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

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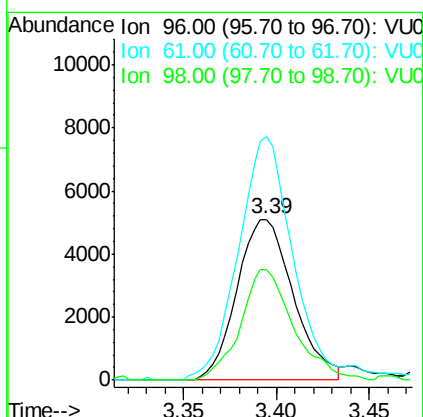
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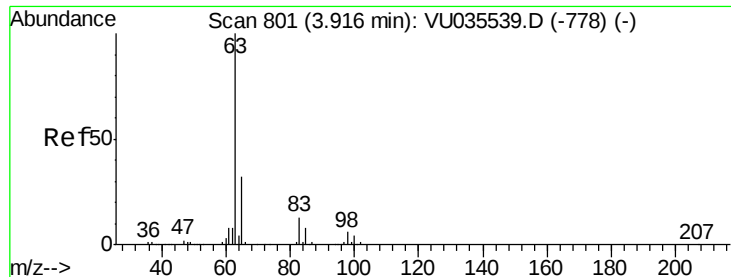
10/30/2019 10:39:14 AM



#16
trans-1,2-Dichloroethene
Concen: 0.568 ug/l
RT: 3.39 min Scan# 639
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.2	117.8	176.8
98	68.5	50.2	75.2





#17

1,1-Dichloroethane

Concen: 0.577 ug/l

RT: 3.92 min Scan# 803

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

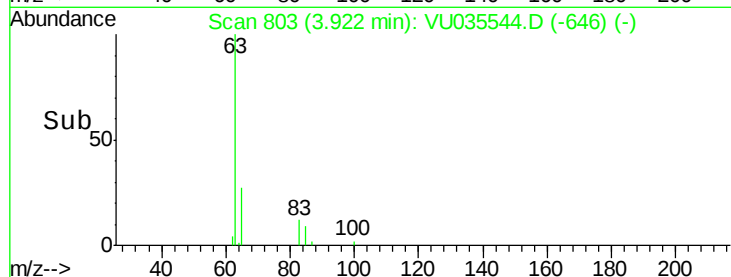
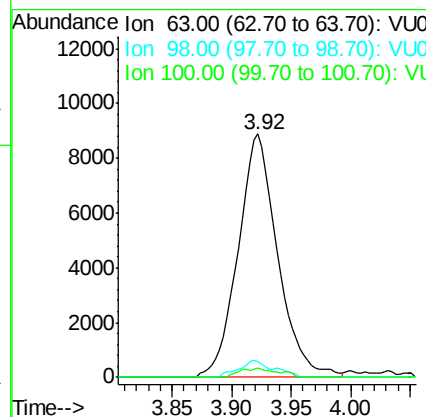
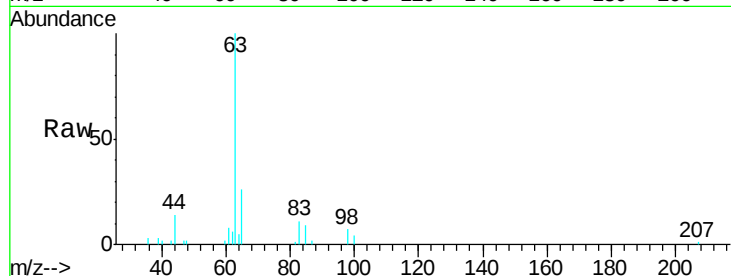
MSVOA_U

ClientSampleId :

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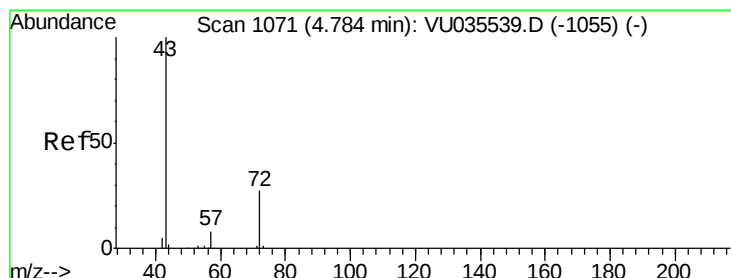
Tgt Ion:	63	Resp:	20452
Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.1	9.3
100	3.6	2.1	6.3

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10/30/2019 10:39:14 AM



#18

2-Butanone

Concen: 2.134 ug/l

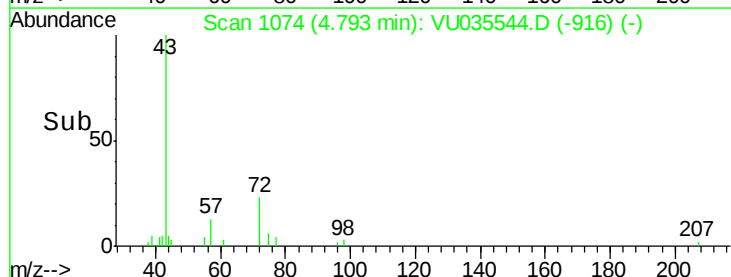
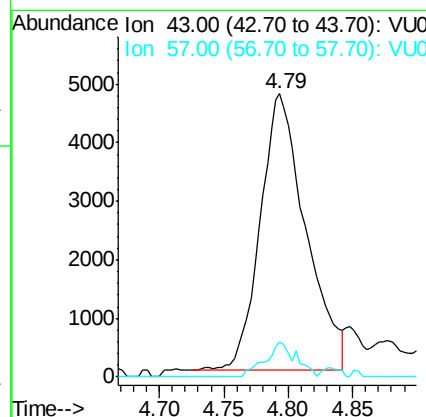
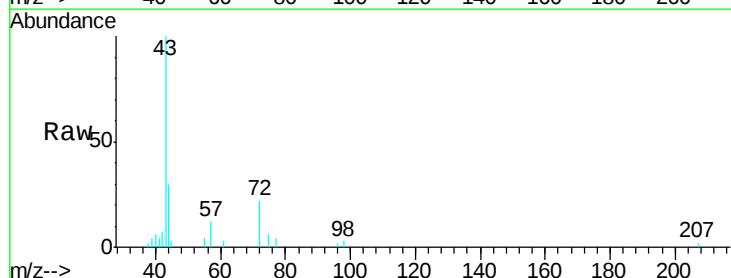
RT: 4.79 min Scan# 1074

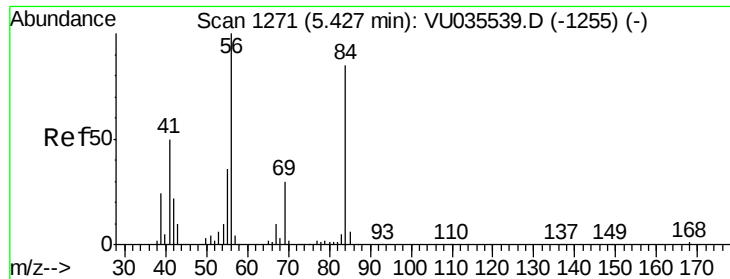
Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Tgt Ion:	43	Resp:	11602
Ion	Ratio	Lower	Upper
43	100		
57	12.8	0.0	17.0



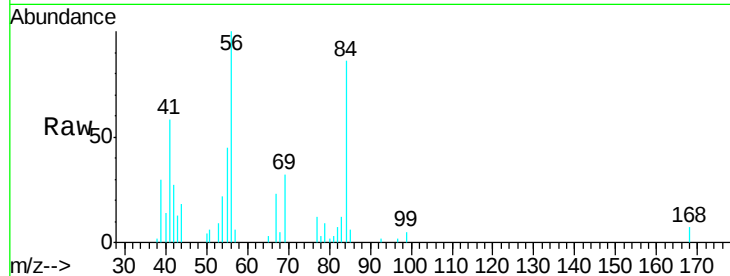


#19
Cyclohexane
Concen: 0.452 ug/l m
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

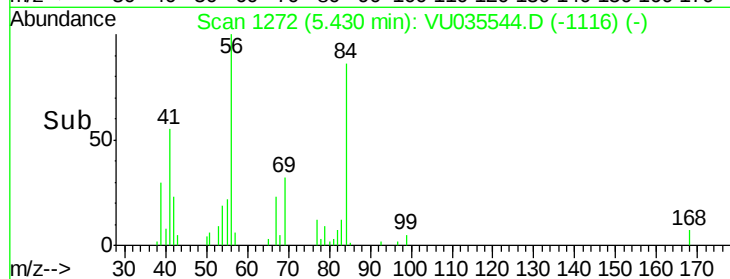
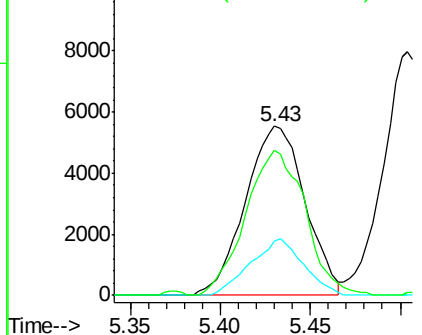
Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.6	26.4	39.6
84	85.9	72.9	109.3

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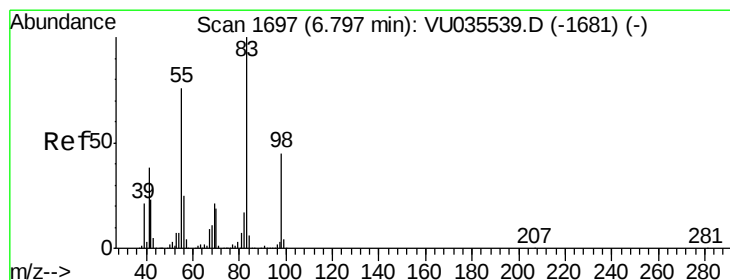


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



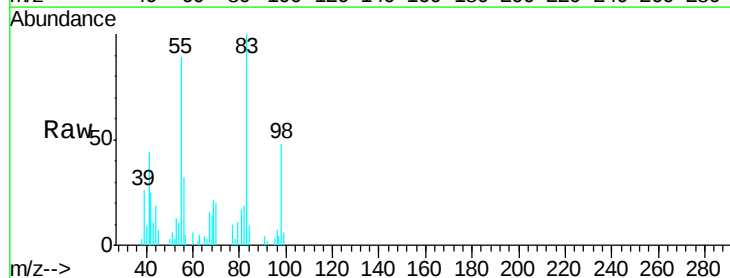
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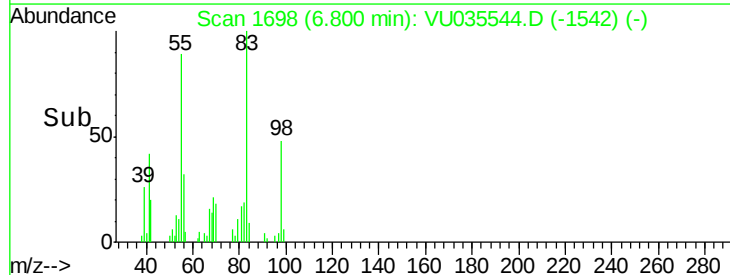
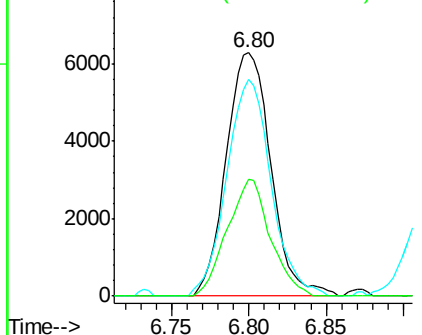


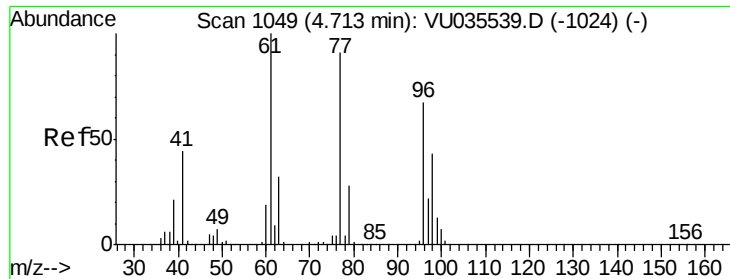
#20
Methylcyclohexane
Concen: 0.437 ug/l
RT: 6.80 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
83	100		
55	88.6	61.2	91.8
98	46.4	36.7	55.1



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



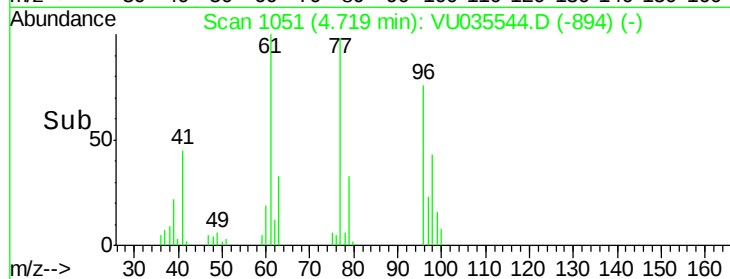
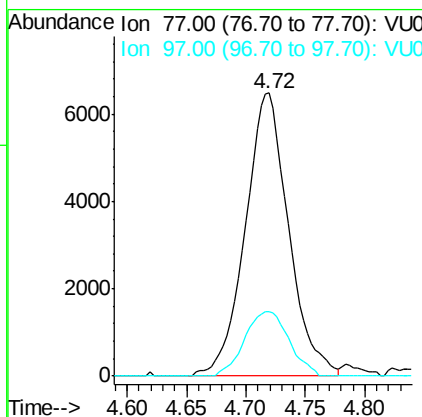
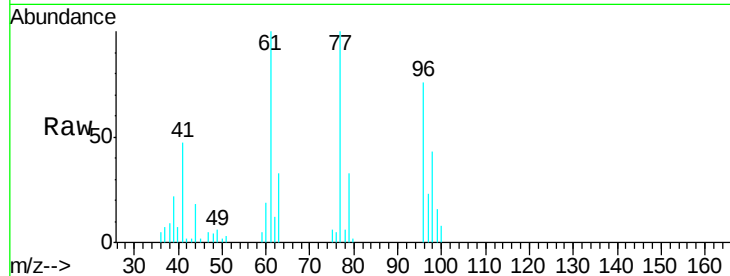


#21
 2,2-Dichloropropane
 Concen: 0.535 ug/l
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

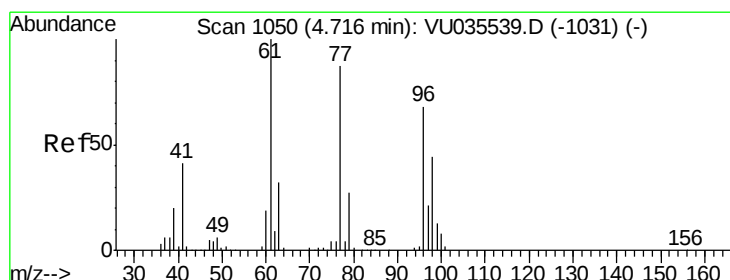
Tgt Ion: 77 Resp: 16389
 Ion Ratio Lower Upper
 77 100
 97 23.4 18.8 28.2

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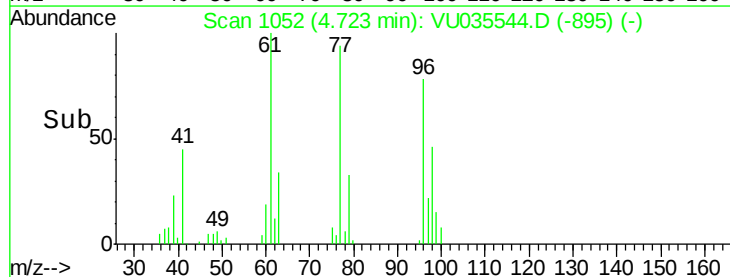
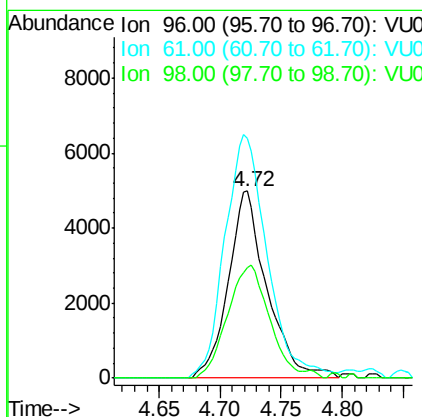
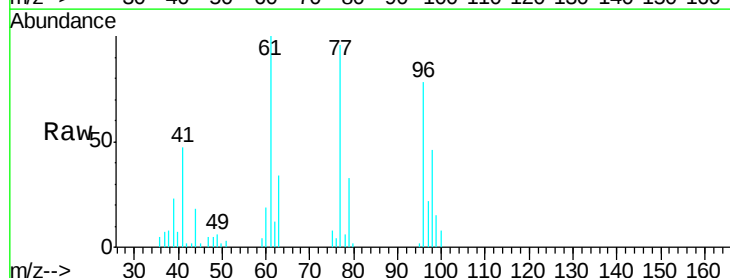
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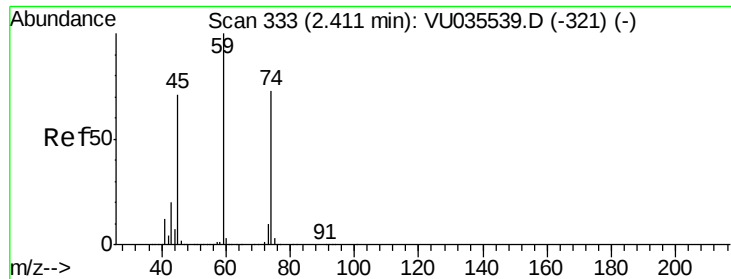
10/30/2019 10:39:14 AM



#22
 cis-1,2-Dichloroethene
 Concen: 0.543 ug/l
 RT: 4.72 min Scan# 1052
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Tgt Ion: 96 Resp: 11000
 Ion Ratio Lower Upper
 96 100
 61 142.1 0.0 370.5
 98 64.5 31.8 95.4



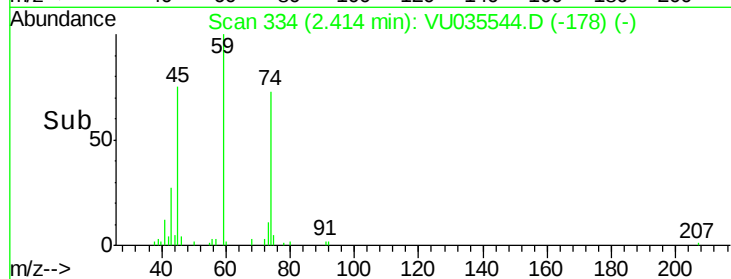
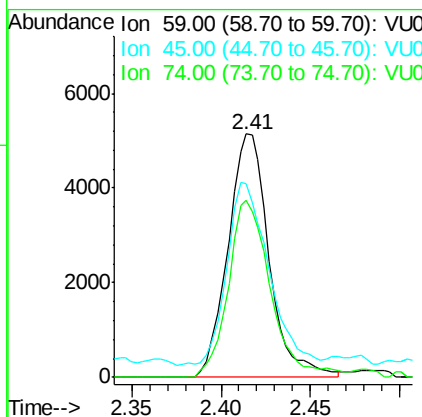
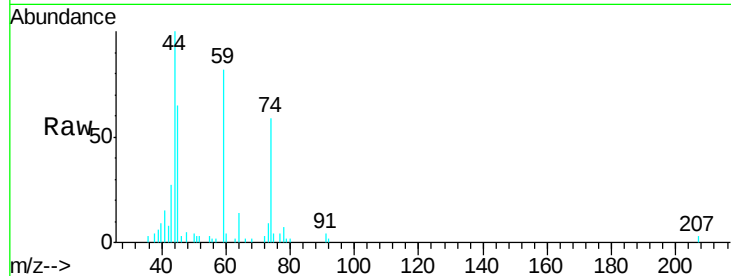


#23
Diethyl Ether
Concen: 0.580 ug/l
RT: 2.41 min Scan# 334
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

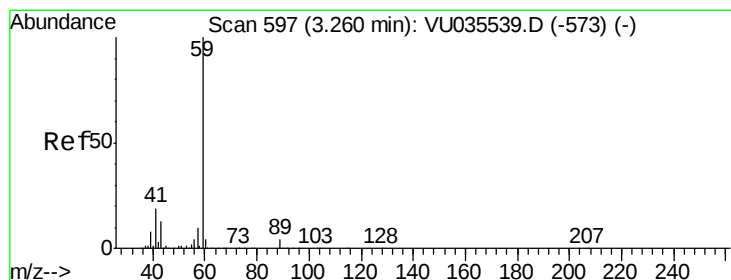
Tgt Ion	Ratio	Lower	Upper
59	100		
45	75.4	56.9	85.3
74	74.7	59.5	89.3

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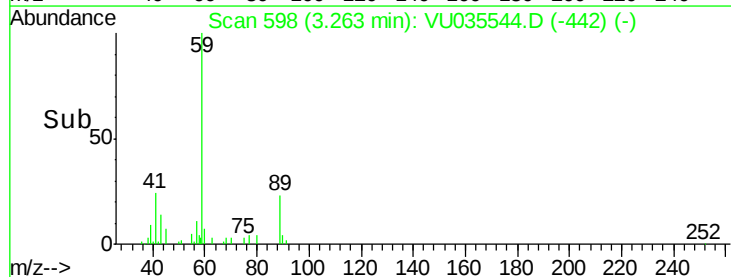
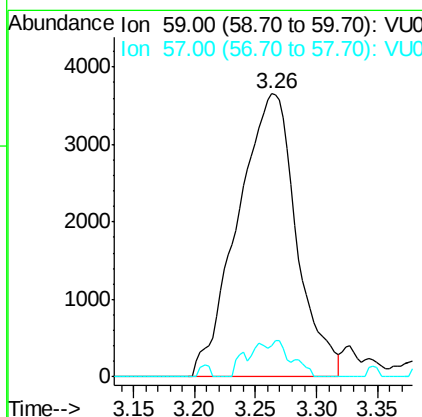
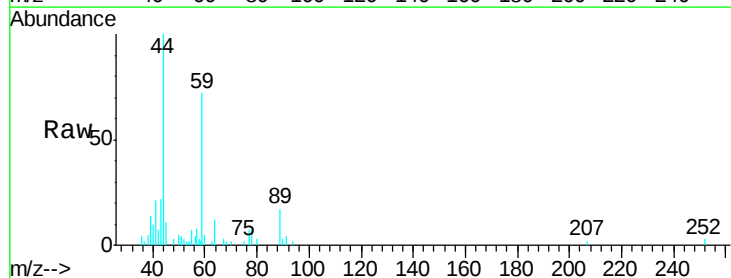
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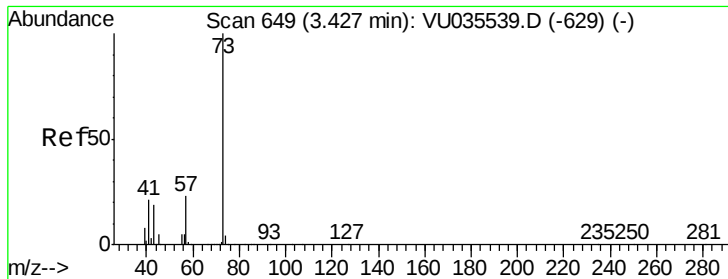
10/30/2019 10:39:14 AM



#24
tert-Butyl Alcohol
Concen: 7.711 ug/l
RT: 3.26 min Scan# 598
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
59	100		
57	1.6	7.4	11.0#





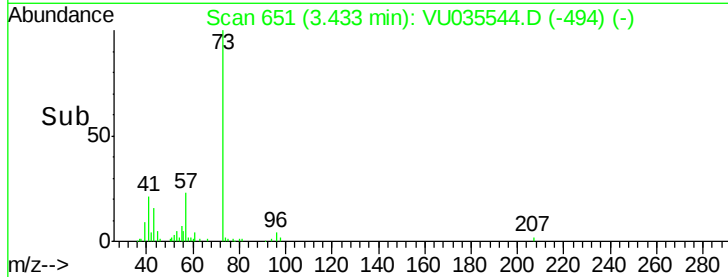
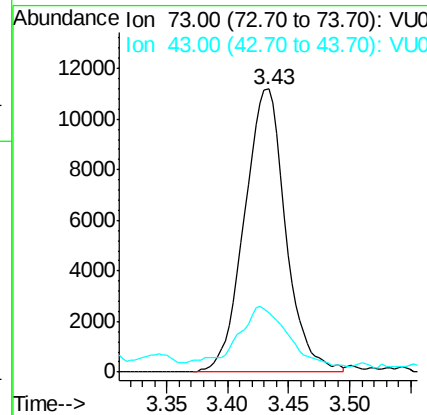
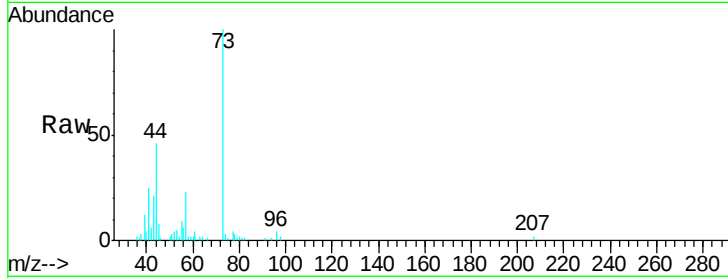
#25

Methyl tert-Butyl Ether
Concen: 0.566 ug/l
RT: 3.43 min Scan# 651
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

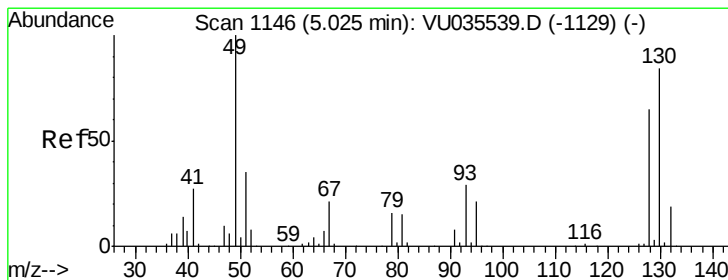
Tgt Ion: 73 Resp: 26148
Ion Ratio Lower Upper
73 100
43 24.2 15.4 23.2#

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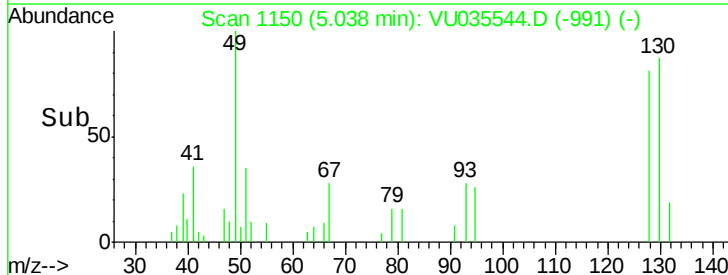
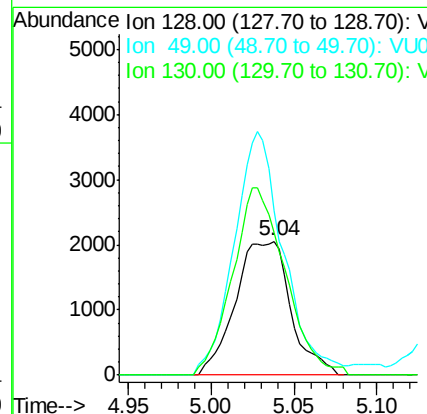
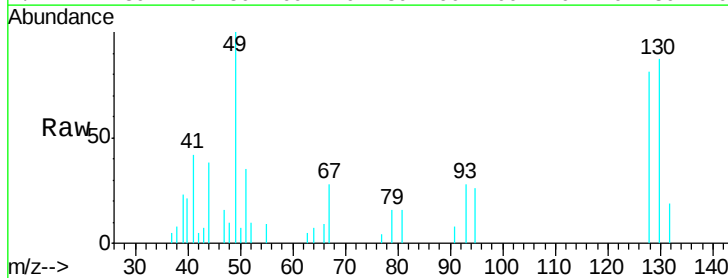
10/30/2019 10:39:14 AM

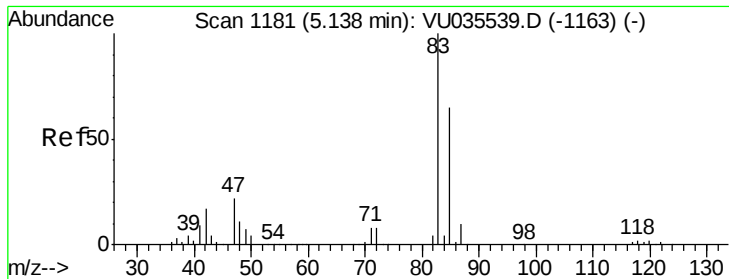


#26

Bromochloromethane
Concen: 0.529 ug/l
RT: 5.04 min Scan# 1150
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion: 128 Resp: 4782
Ion Ratio Lower Upper
128 100
49 161.8 0.0 309.0
130 133.2 101.8 152.8



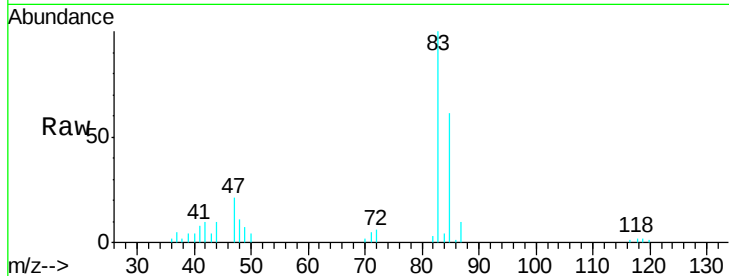


#27
Chloroform
Concen: 0.623 ug/l
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

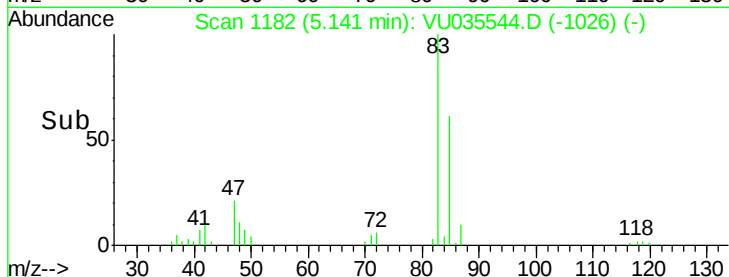
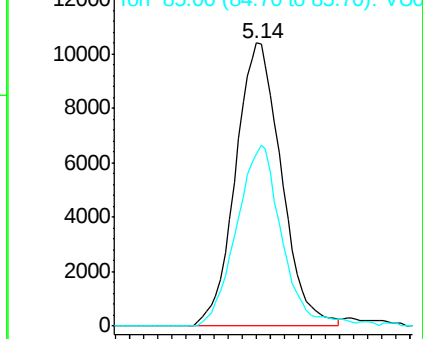
Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	23613		
85	60.7	0.0	130.6	

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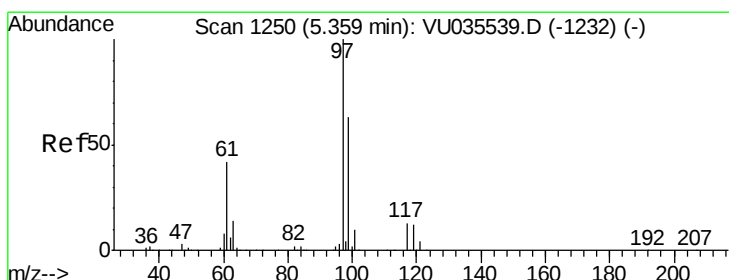


Abundance Ion 83.00 (82.70 to 83.70): VU035539.D (-1163) (-)



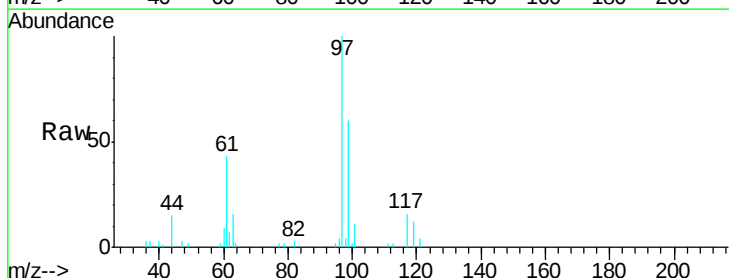
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10/30/2019 10:39:14 AM

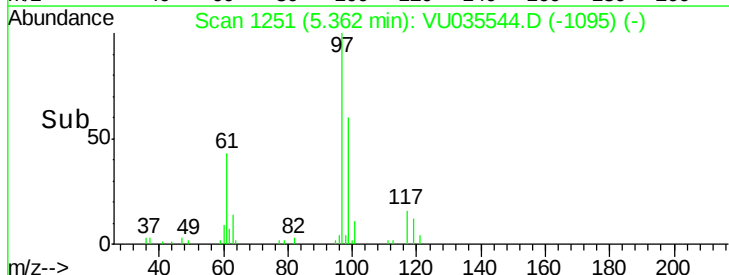
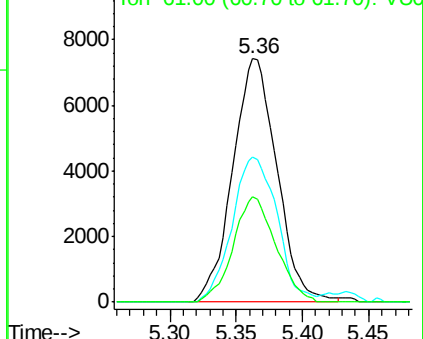


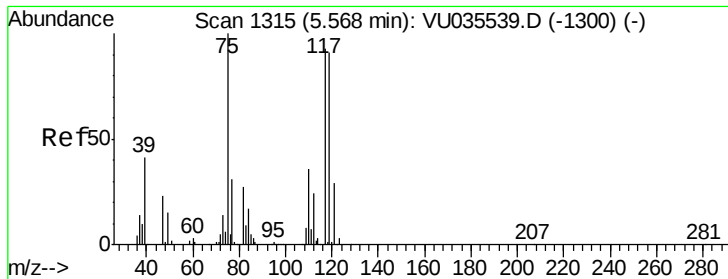
#28
1,1,1-Trichloroethane
Concen: 0.573 ug/l
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	17211		
99	60.4	32.6	97.7	
61	41.8	21.8	65.4	



Abundance Ion 97.00 (96.70 to 97.70): VU035539.D (-1232) (-)





#29

1,1-Dichloropropene

Concen: 0.497 ug/l

RT: 5.57 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

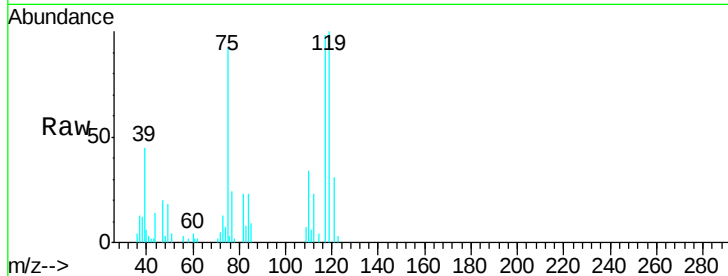
MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tgt Ion:	75	Resp:	12518
Ion Ratio	Lower	Upper	
75	100		
110	35.8	18.3	54.8
77	30.0	24.6	37.0

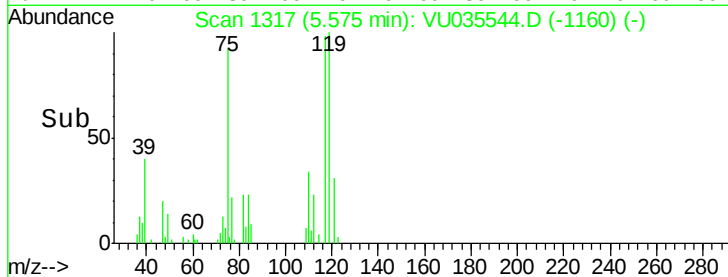
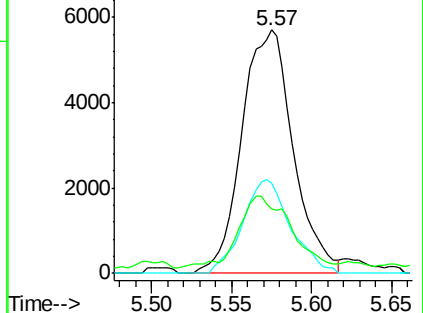
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Abundance Ion 75.00 (74.70 to 75.70): VU035539.D (-1300) (-)

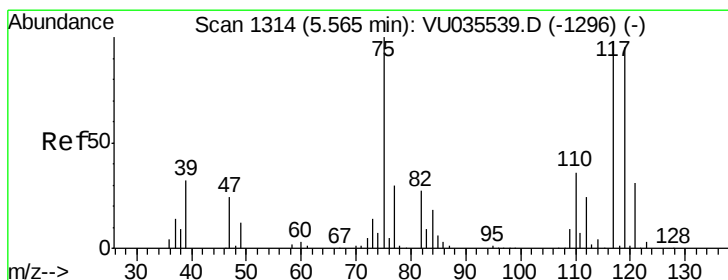
Ion 110.00 (109.70 to 110.70): VU035539.D (-1300) (-)

Ion 77.00 (76.70 to 77.70): VU035539.D (-1300) (-)



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10/30/2019 10:39:14 AM



#30

Carbon Tetrachloride

Concen: 0.555 ug/l

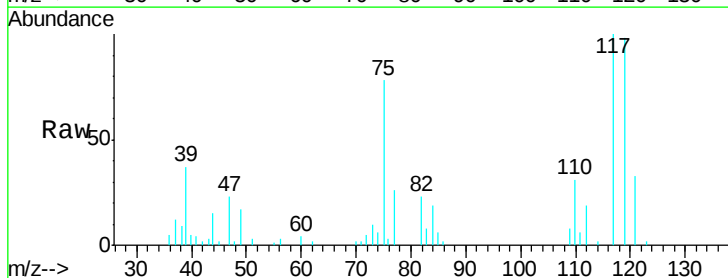
RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

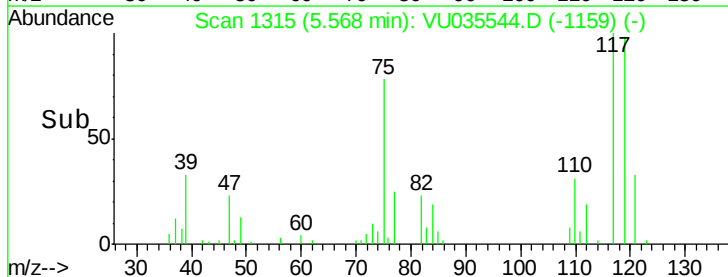
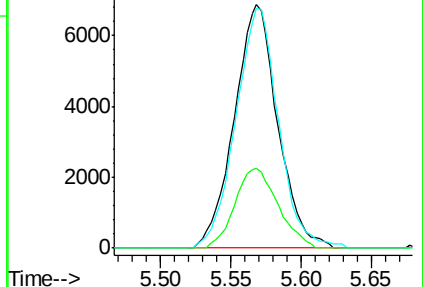
Tgt Ion:	117	Resp:	14825
Ion Ratio	Lower	Upper	
117	100		
119	98.3	77.3	115.9
121	33.0	25.2	37.8

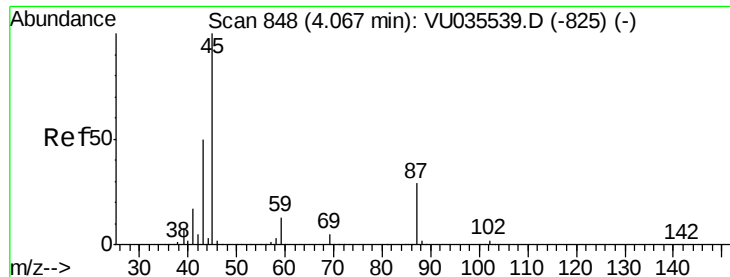


Abundance Ion 117.00 (116.70 to 117.70): VU035539.D (-1296) (-)

Ion 119.00 (118.70 to 119.70): VU035539.D (-1296) (-)

Ion 121.00 (120.70 to 121.70): VU035539.D (-1296) (-)





#31

Isopropyl Ether

Concen: 0.514 ug/l

RT: 4.07 min Scan# 849

Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

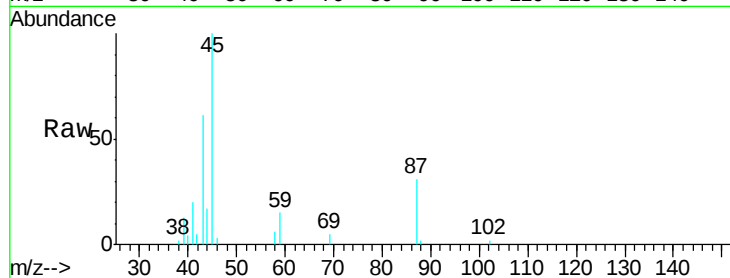
Tgt Ion: 45 Resp: 25443

Ion Ratio Lower Upper

45 100

43 56.5 25.3 75.8

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Abundance Ion 45.00 (44.70 to 45.70): VU035539.D (-825) (-)

Ion 43.00 (42.70 to 43.70): VU035539.D (-825) (-)

4.07

10000

8000

6000

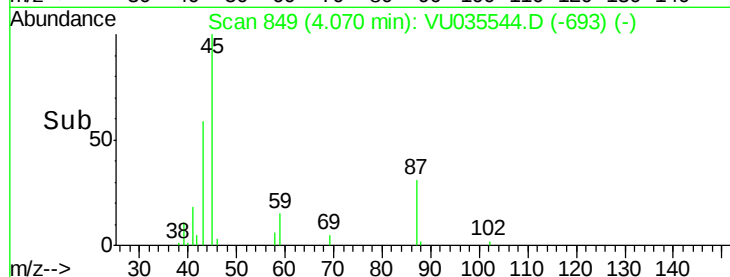
4000

2000

0

4.00 4.10 4.20

Time-->



#32

Ethyl-t-butyl ether

Concen: 0.486 ug/l

RT: 4.58 min Scan# 1007

Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Tgt Ion: 59 Resp: 22305

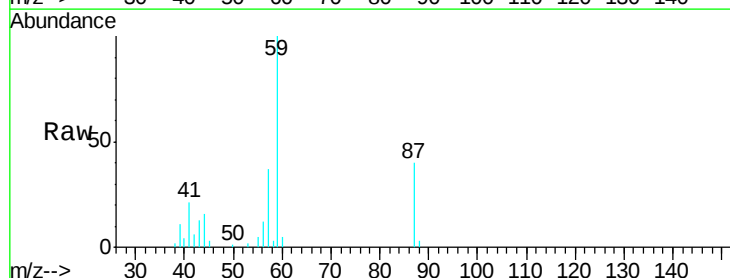
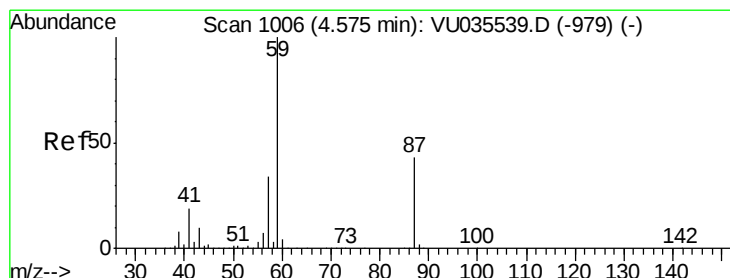
Ion Ratio Lower Upper

59 100

87 42.0 33.9 50.9

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10/30/2019 10:39:14 AM



Abundance Ion 59.00 (58.70 to 59.70): VU035539.D (-979) (-)

Ion 87.00 (86.70 to 87.70): VU035539.D (-979) (-)

4.58

10000

8000

6000

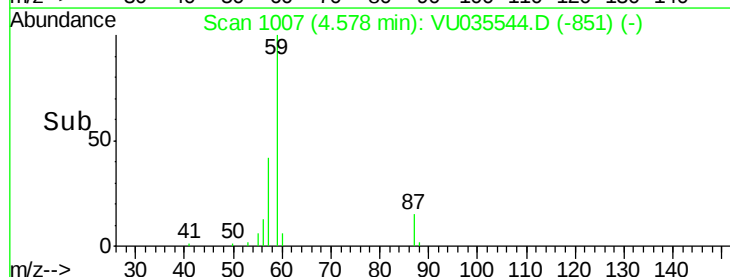
4000

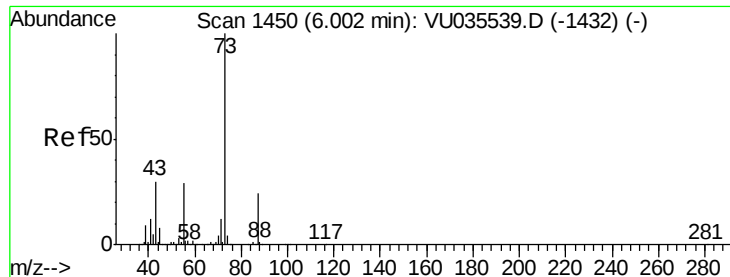
2000

0

4.50 4.55 4.60 4.65

Time-->





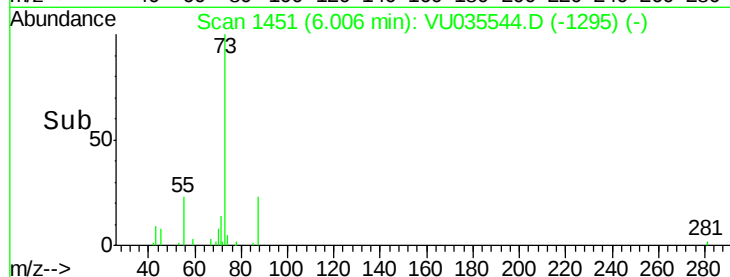
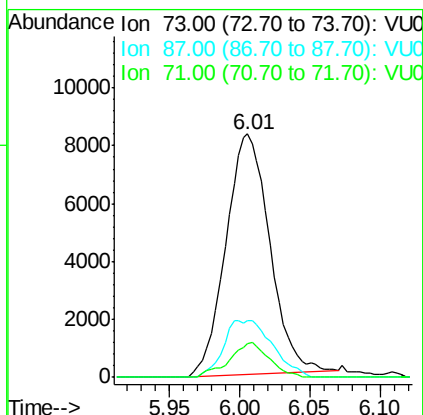
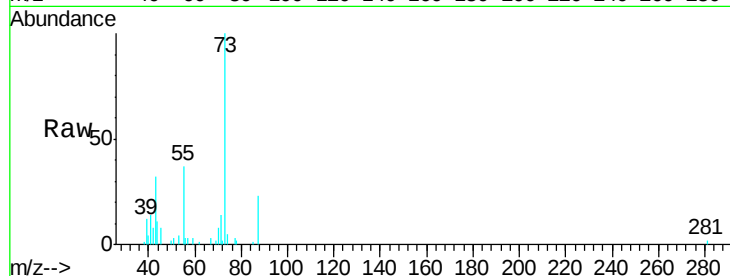
#33

Tert-Amyl methyl ether
 Concen: 0.458 ug/l
 RT: 6.01 min Scan# 1451
 Delta R.T. 0.00 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

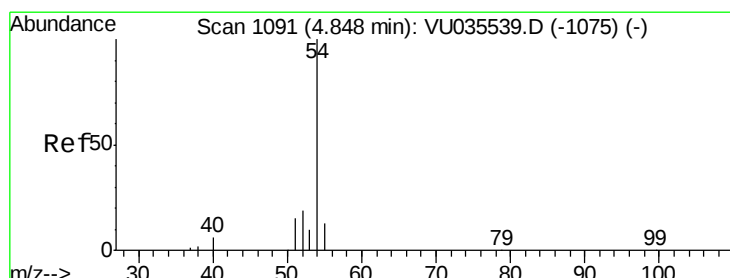
Tgt Ion	Ratio	Lower	Upper
73	100		
87	26.3	19.5	29.3
71	13.2	9.4	14.2

Manual Integrations
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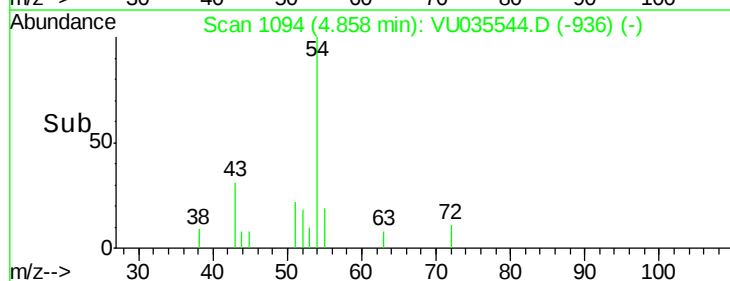
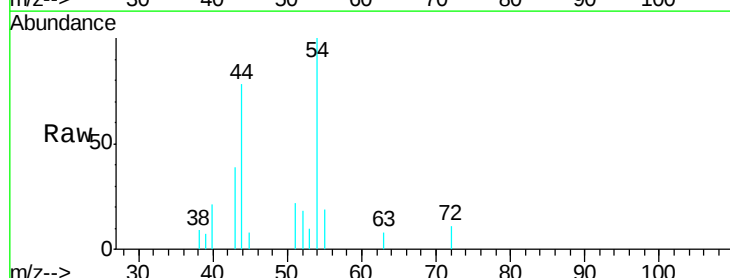
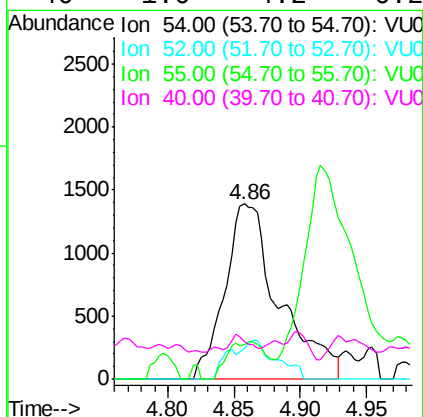
10/30/2019 10:39:14 AM

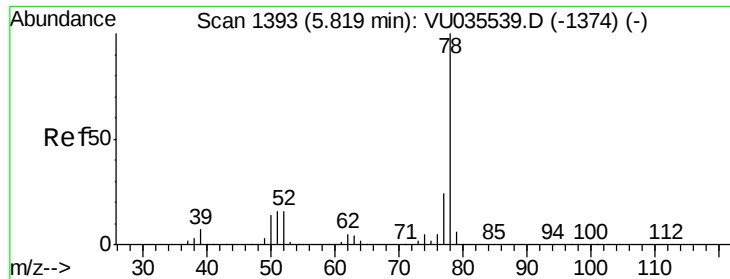


#34

Propionitrile
 Concen: 2.522 ug/l
 RT: 4.86 min Scan# 1094
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
54	100		
52	12.8	14.6	21.8#
55	0.0	11.7	17.5#
40	1.0	4.2	6.2#





#35

Benzene

Concen: 0.531 ug/l

RT: 5.82 min Scan# 1394

Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

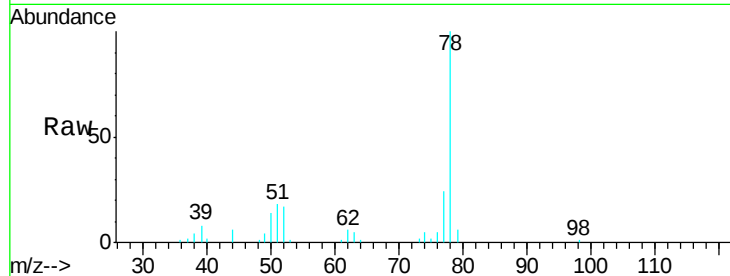
Tgt Ion: 78 Resp: 40776

Ion Ratio Lower Upper

78 100

77 22.6 19.0 28.4

Manual Integrations
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Abundance Ion 78.10 (77.80 to 78.80): VU035539.D (-1374) (-)

Ion 77.00 (76.70 to 77.70): VU035539.D (-1374) (-)

5.82

20000

15000

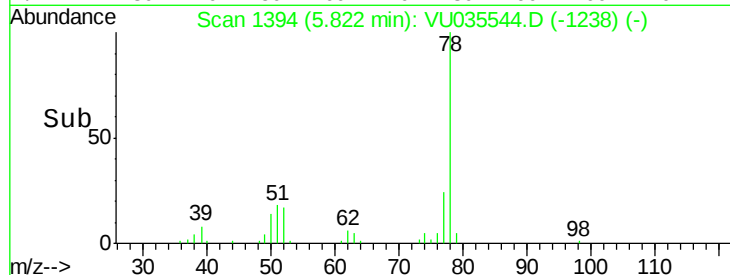
10000

5000

0

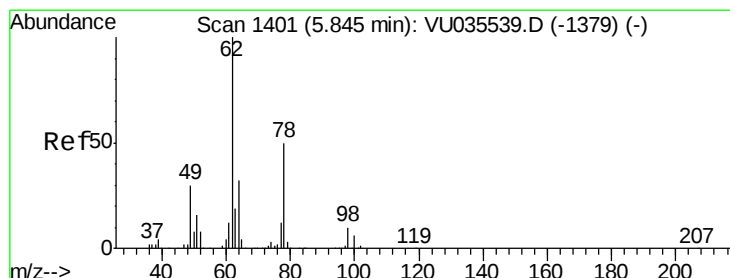
5.75 5.80 5.85 5.90

Time-->



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10/30/2019 10:39:14 AM



#36

1,2-Dichloroethane

Concen: 0.523 ug/l

RT: 5.85 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VU035544.D

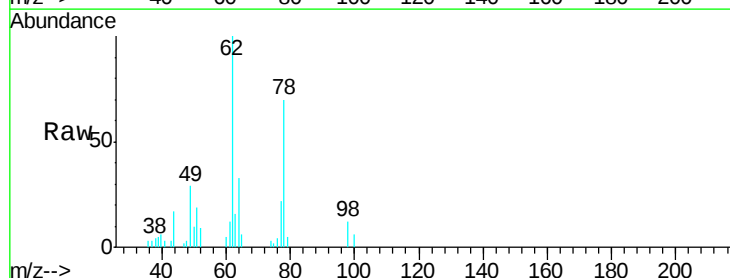
Acq: 29 Oct 2019 17:59

Tgt Ion: 62 Resp: 11521

Ion Ratio Lower Upper

62 100

98 9.5 7.5 11.3



Abundance Ion 62.00 (61.70 to 62.70): VU035539.D (-1379) (-)

Ion 98.00 (97.70 to 98.70): VU035539.D (-1379) (-)

5.85

6000

5000

4000

3000

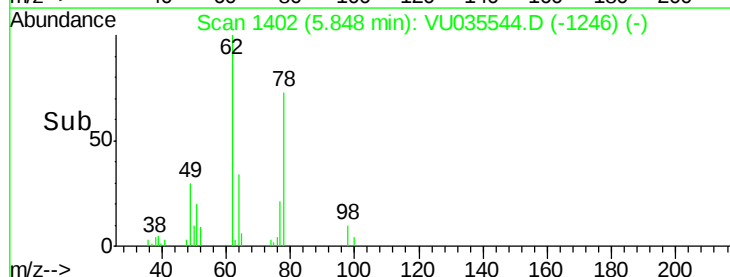
2000

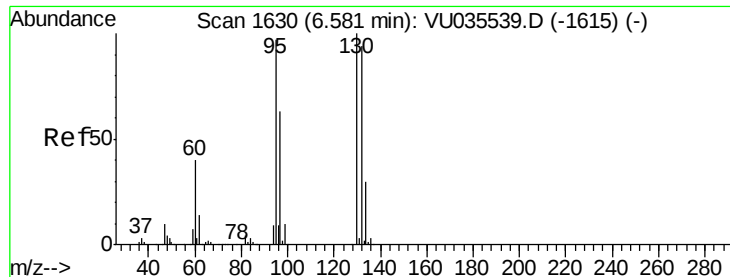
1000

0

5.75 5.80 5.85 5.90

Time-->





#37

Trichloroethene

Concen: 0.524 ug/l

RT: 6.59 min Scan# 1632

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

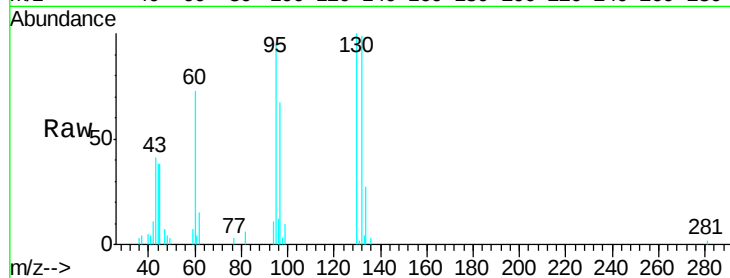
Tgt Ion:130 Resp: 11179

Ion Ratio Lower Upper

130 100

95 94.7 77.5 116.3

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Abundance Ion 129.90 (129.60 to 130.60): VU035539.D (-1615) (-)

Ion 94.90 (94.60 to 95.60): VU035539.D (-1615) (-)

6.59

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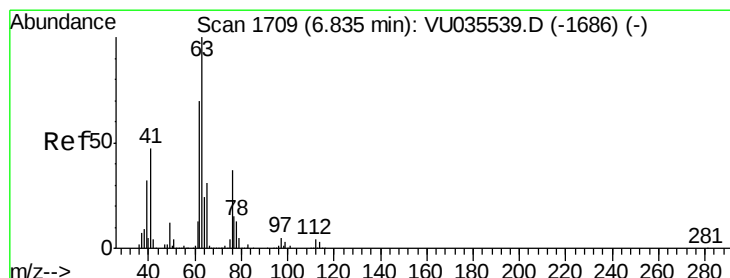
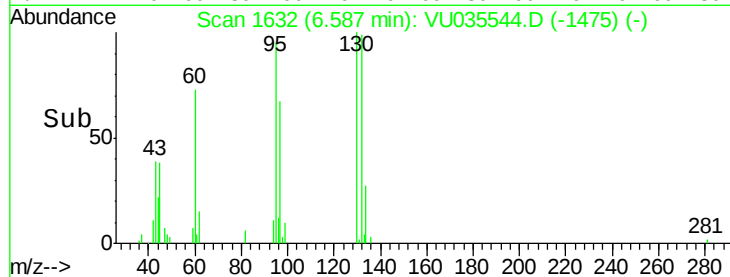
6.59

6.59

6.59

6.59

6.59



#38

1,2-Dichloropropane

Concen: 0.536 ug/l

RT: 6.84 min Scan# 1710

Delta R.T. 0.00 min

Lab File: VU035544.D

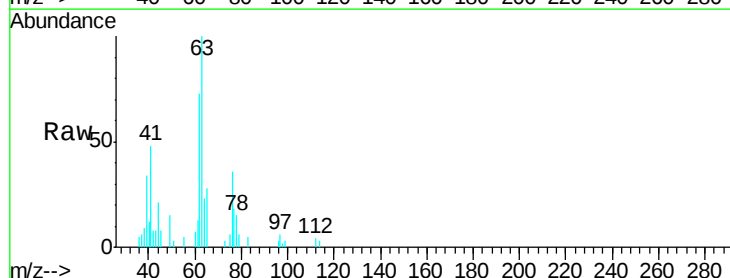
Acq: 29 Oct 2019 17:59

Tgt Ion: 63 Resp: 11296

Ion Ratio Lower Upper

63 100

65 25.9 25.0 37.6



Abundance Ion 63.00 (62.70 to 63.70): VU035539.D (-1686) (-)

Ion 65.00 (64.70 to 65.70): VU035539.D (-1686) (-)

6.84

6.84

6.84

6.84

6.84

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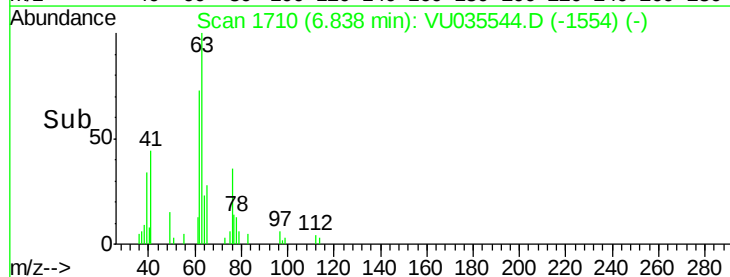
6.84

6.84

6.84

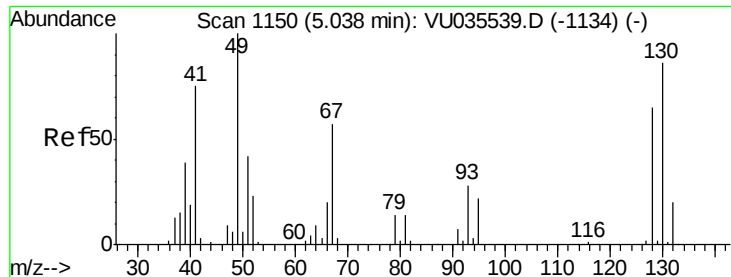
6.84

6.84



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10/30/2019 10:39:14 AM

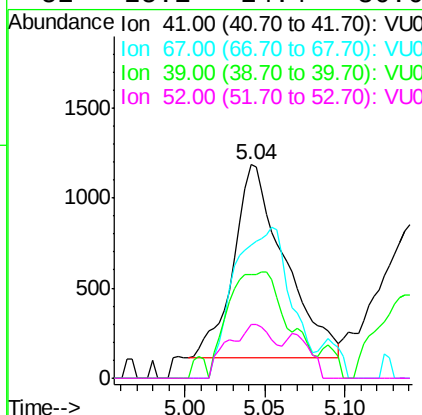
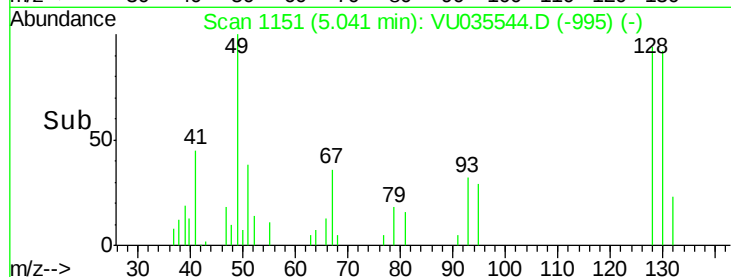
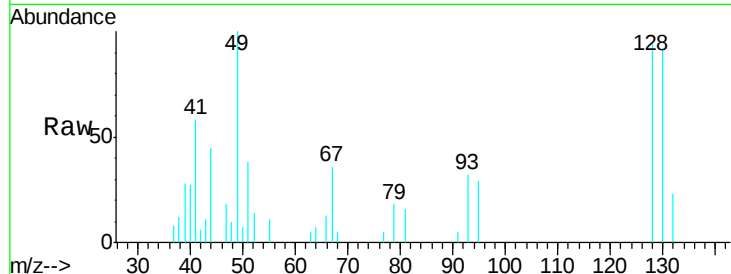


#39
Methacrylonitrile
Concen: 0.397 ug/l
RT: 5.04 min Scan# 1151
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

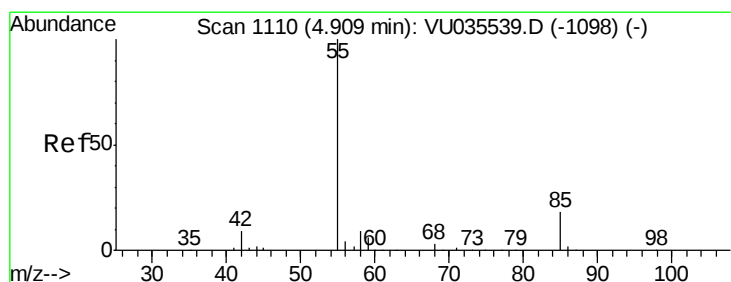
Tgt Ion	Ratio	Lower	Upper
41	100		
67	86.0	61.5	92.3
39	65.2	41.3	61.9#
52	25.1	24.4	36.6

Manual Integrations
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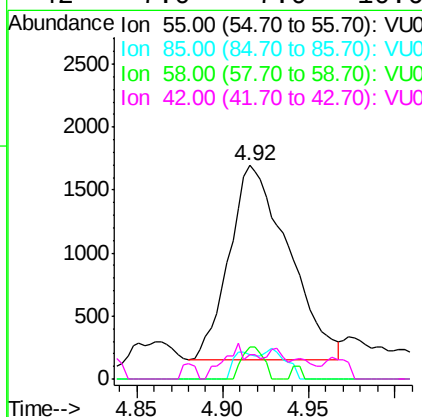
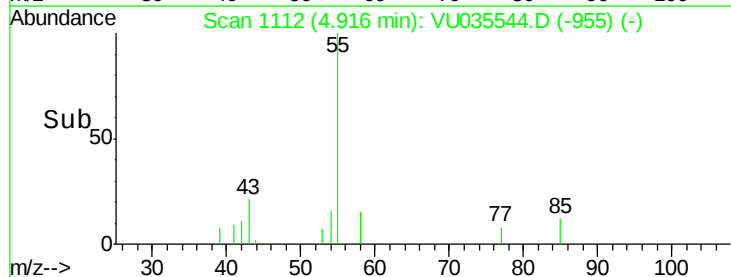
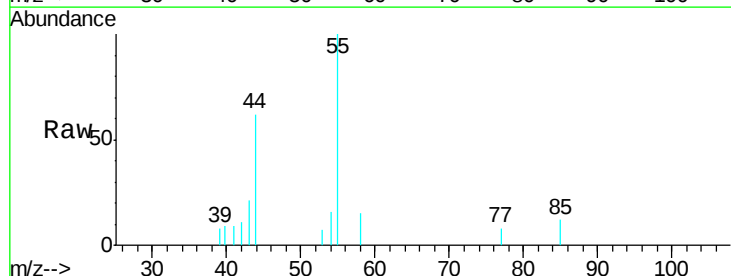
MMDadoda

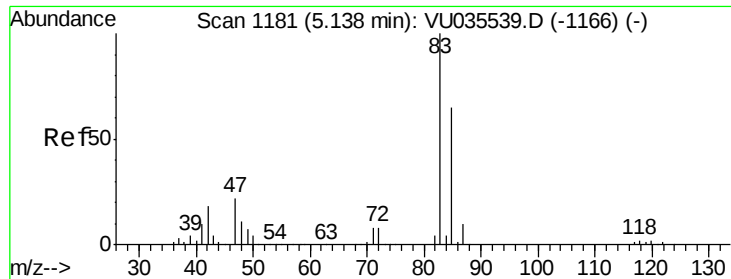
10/30/2019 10:39:14 AM



#40
Methyl acrylate
Concen: 0.410 ug/l
RT: 4.92 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
55	100		
85	0.0	13.5	20.3#
58	6.0	6.6	10.0#
42	7.0	7.0	10.6#



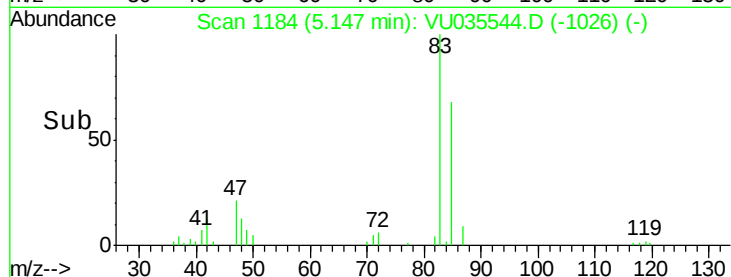
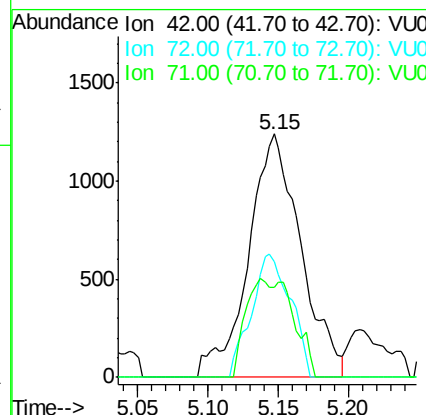
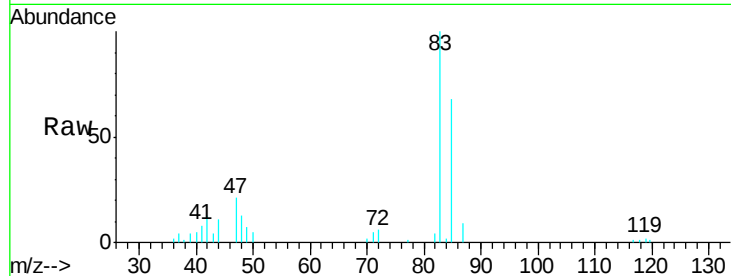


#41
Tetrahydrofuran
Concen: 1.058 ug/l
RT: 5.15 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

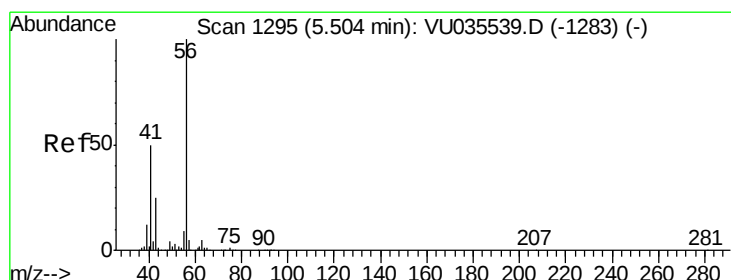
Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.9	89.9	134.9#
71	19.1	3.7	5.5#

Manual Integrations
APPROVED



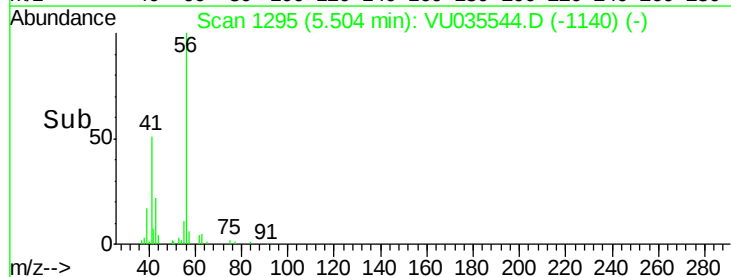
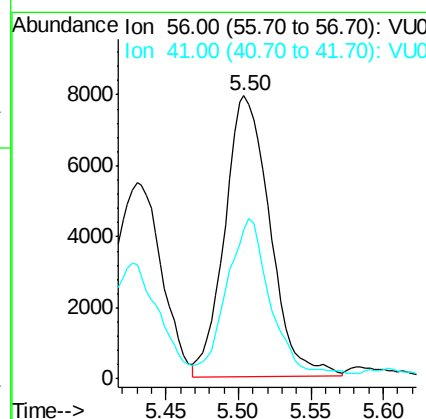
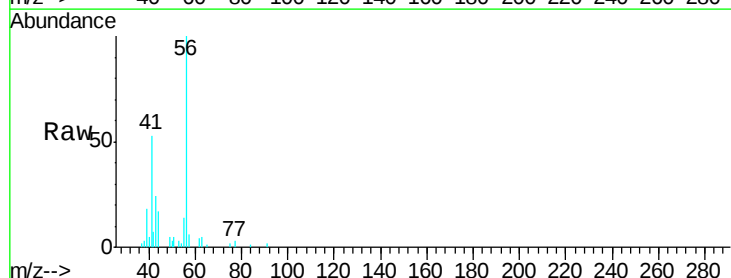
MMDadoda

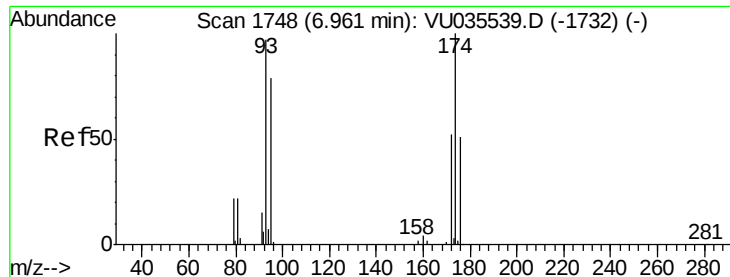
10/30/2019 10:39:14 AM



#42
1-Chlorobutane
Concen: 0.493 ug/l
RT: 5.50 min Scan# 1295
Delta R.T. -0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
56	100		
41	49.7	25.5	76.5





#43

Dibromomethane

Concen: 0.509 ug/l

RT: 6.96 min Scan# 1749

Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

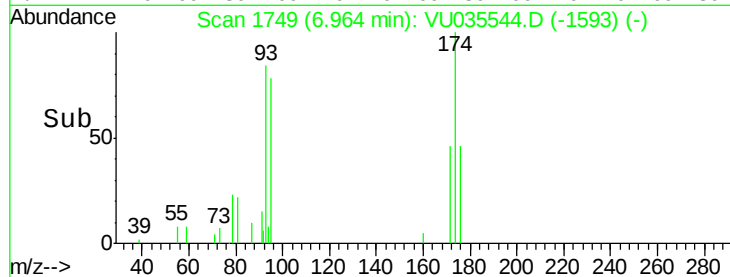
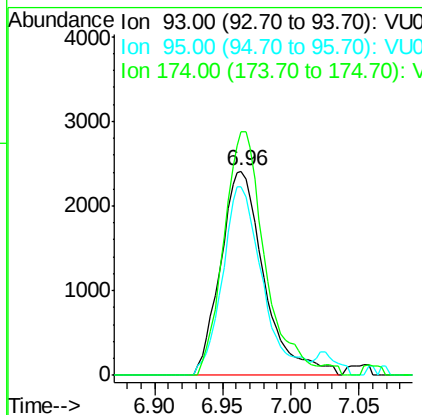
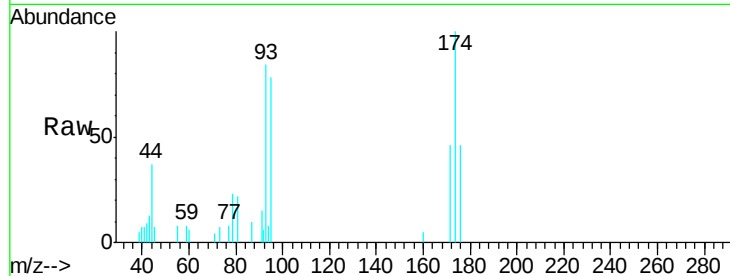
MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

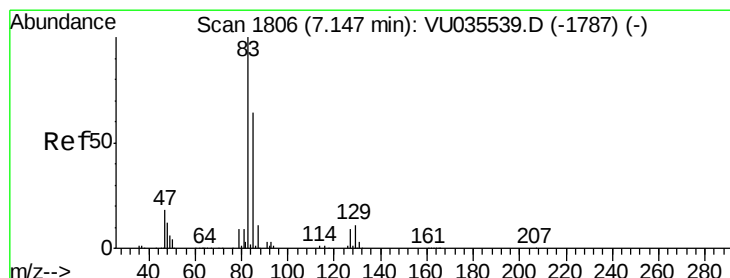
Tgt Ion:	93	Resp:	5357
Ion	Ratio	Lower	Upper
93	100		
95	85.0	65.1	97.7
174	111.9	84.2	126.4

Manual Integrations
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10/30/2019 10:39:14 AM



#44

Bromodichloromethane

Concen: 0.561 ug/l

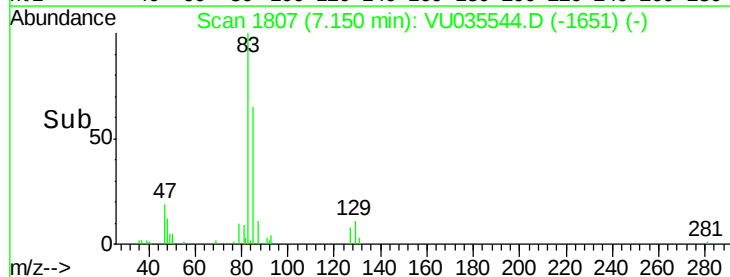
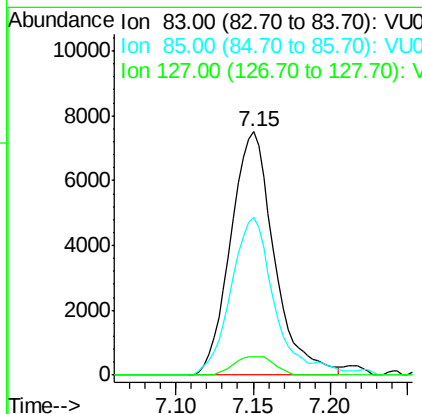
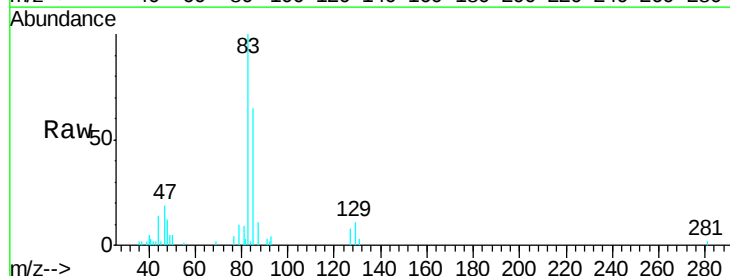
RT: 7.15 min Scan# 1807

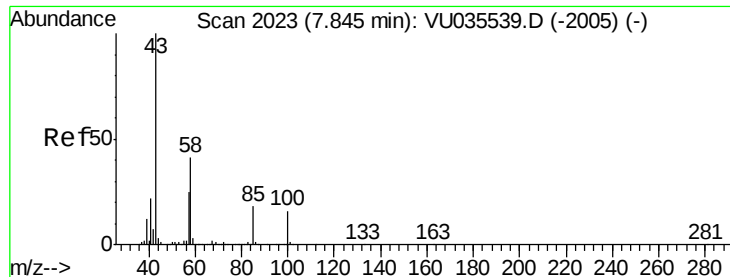
Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Tgt Ion:	83	Resp:	14721
Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.6	77.4
127	7.5	7.0	10.4



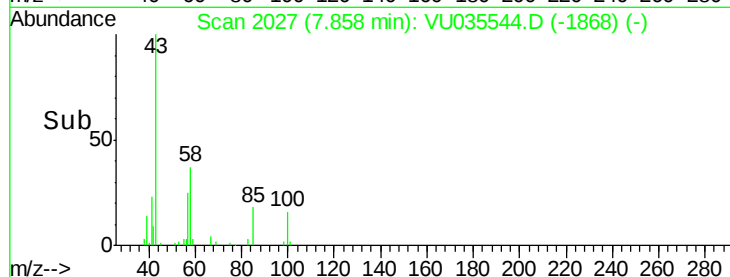
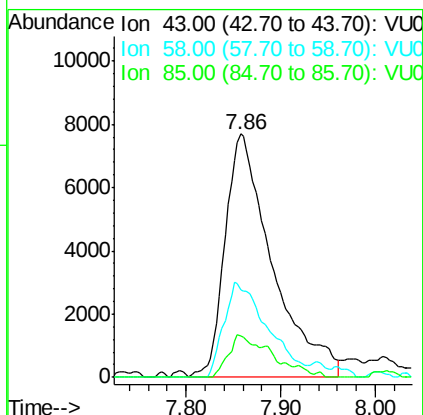
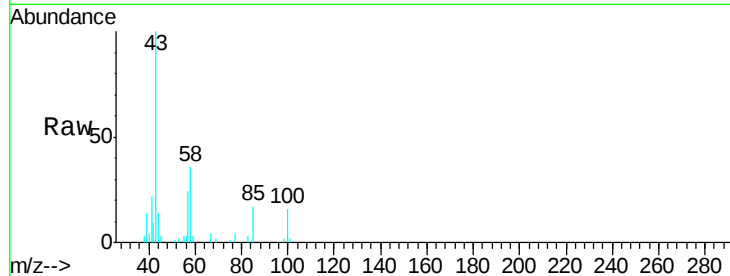


#45
 4-Methyl-2-Pentanone
 Concen: 2.385 ug/l
 RT: 7.86 min Scan# 2027
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

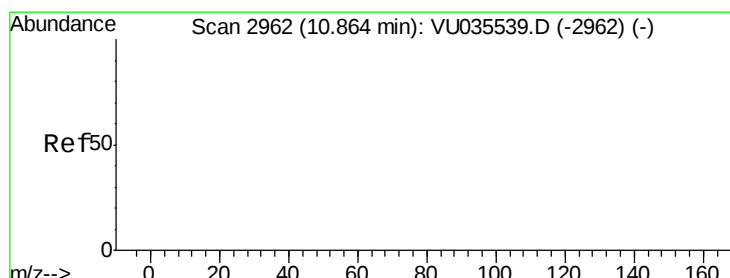
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.1	20.6	61.8
85	10.3	14.5	21.7#

Manual Integrations
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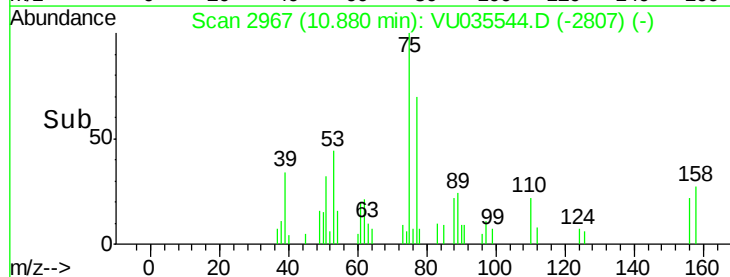
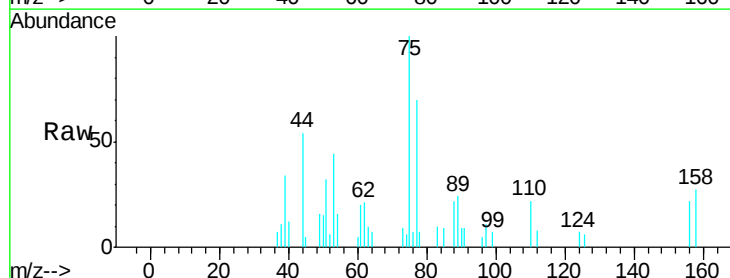
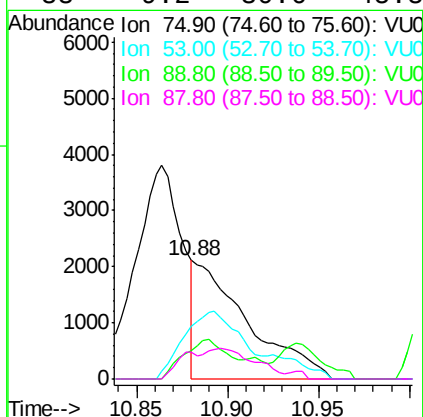
MMDadoda

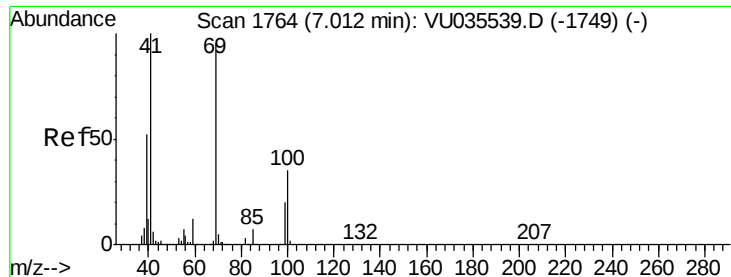
10/30/2019 10:39:14 AM



#46
 t-1,4-Dichloro-2-butene
 Concen: 1.037 ug/l m
 RT: 10.88 min Scan# 2967
 Delta R.T. 0.02 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	54.1	81.1#
89	0.0	38.2	57.4#
88	9.2	30.6	45.8#



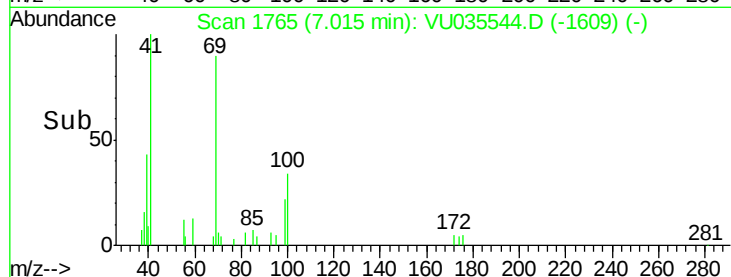
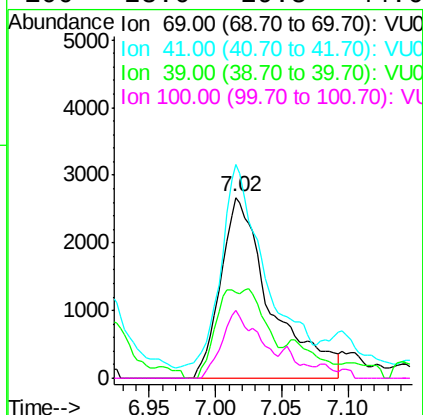
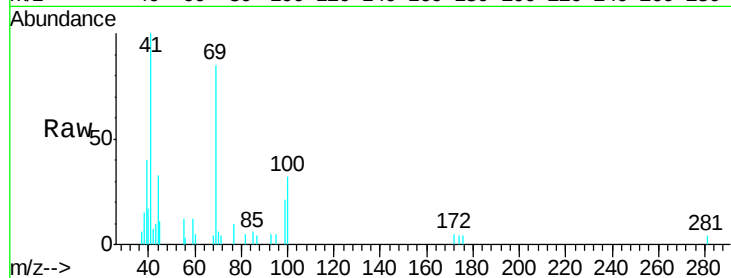


#47
Methyl methacrylate
Concen: 0.808 ug/l
RT: 7.02 min Scan# 1765
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

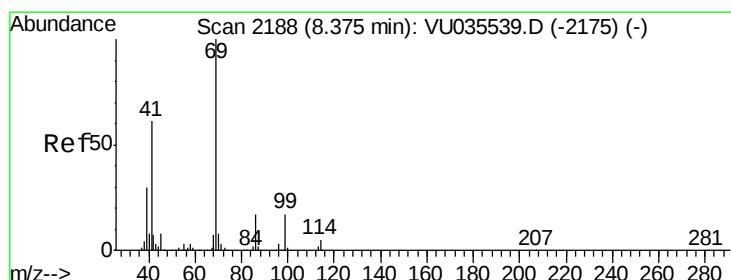
Tgt Ion	Ratio	Lower	Upper
69	100		
41	97.4	0.0	216.8
39	24.4	45.1	67.7#
100	28.0	29.8	44.6#

Manual Integrations
APPROVED



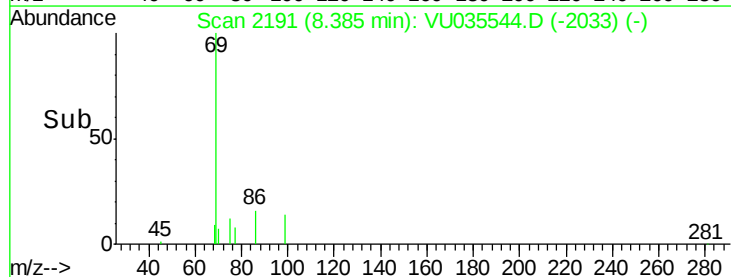
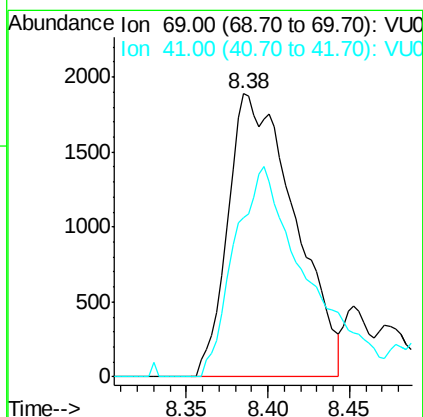
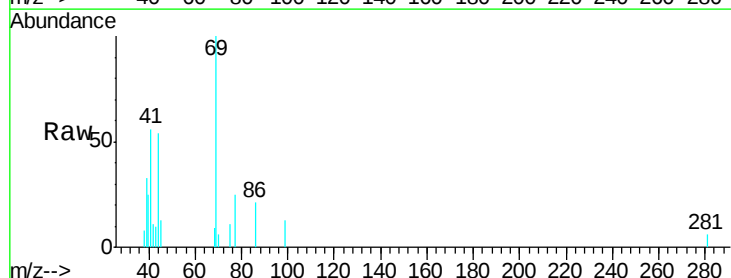
MMDadoda

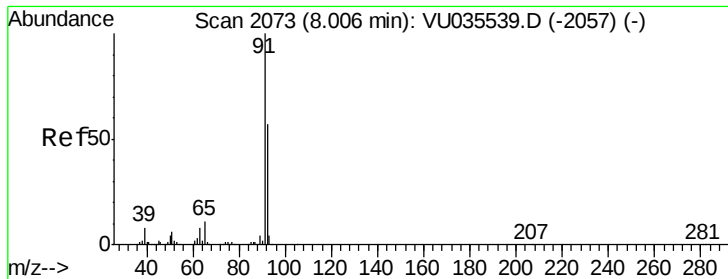
10/30/2019 10:39:14 AM



#48
Ethyl methacrylate
Concen: 0.353 ug/l m
RT: 8.38 min Scan# 2191
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
69	100		
41	80.2	30.4	91.2





#49

Toluene

Concen: 0.473 ug/l

RT: 8.01 min Scan# 2074

Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

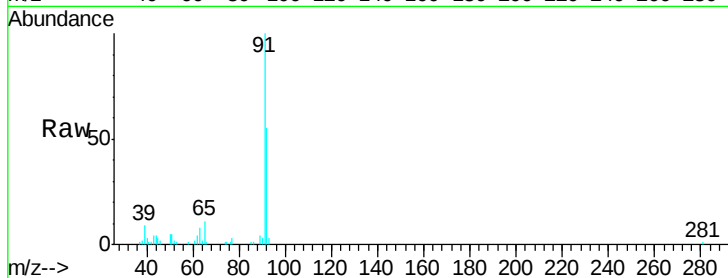
Tgt Ion: 92 Resp: 20915

Ion Ratio Lower Upper

92 100

91 176.7 141.4 212.0

Manual Integrations
APPROVED



Abundance Ion 92.00 (91.70 to 92.70): VU035539.D (-2057) (-)

Ion 91.00 (90.70 to 91.70): VU035539.D (-2057) (-)

20000

15000

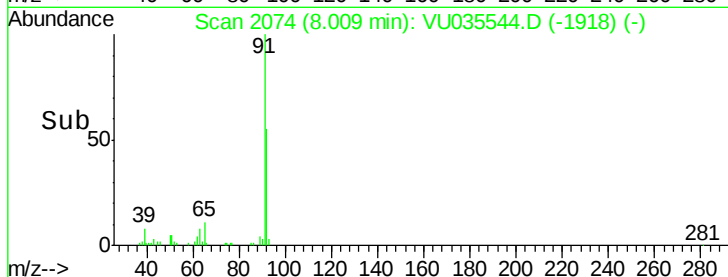
10000

5000

0

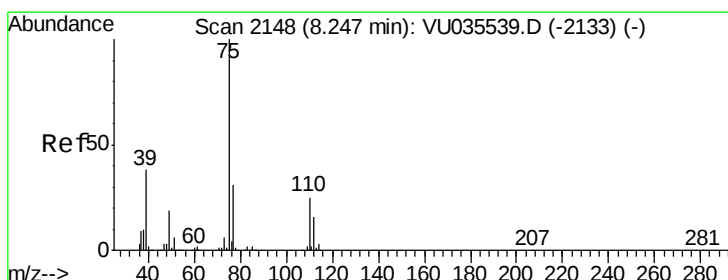
7.95 8.00 8.05 8.10

Time-->



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10/30/2019 10:39:14 AM



#50

t-1,3-Dichloropropene

Concen: 0.459 ug/l

RT: 8.26 min Scan# 2151

Delta R.T. 0.01 min

Lab File: VU035544.D

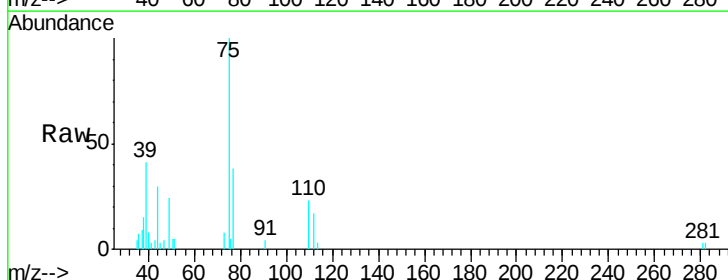
Acq: 29 Oct 2019 17:59

Tgt Ion: 75 Resp: 10657

Ion Ratio Lower Upper

75 100

77 28.4 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VU035539.D (-2133) (-)

Ion 77.00 (76.70 to 77.70): VU035539.D (-2133) (-)

4000

3000

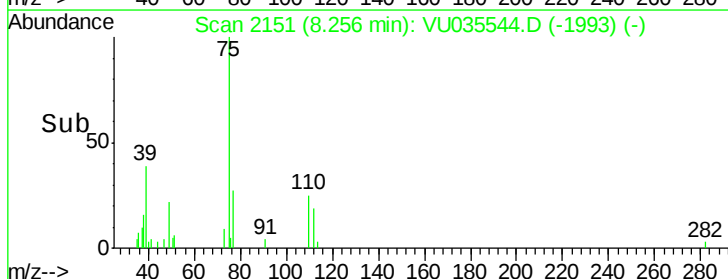
2000

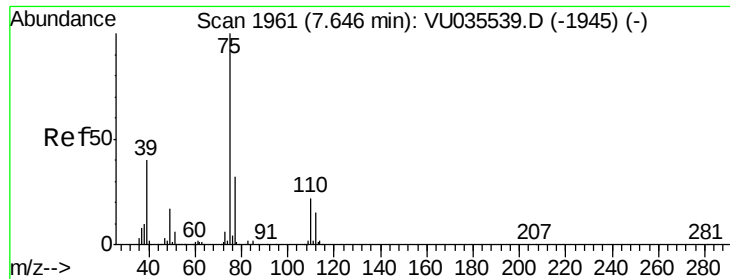
1000

0

8.20 8.25 8.30

Time-->





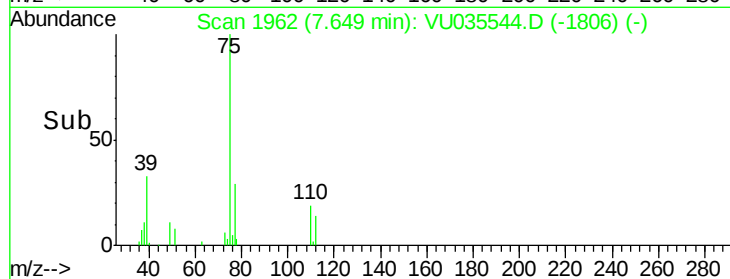
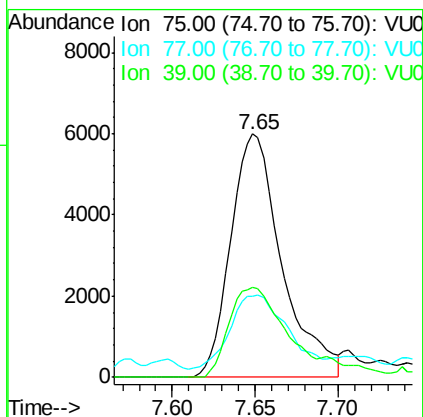
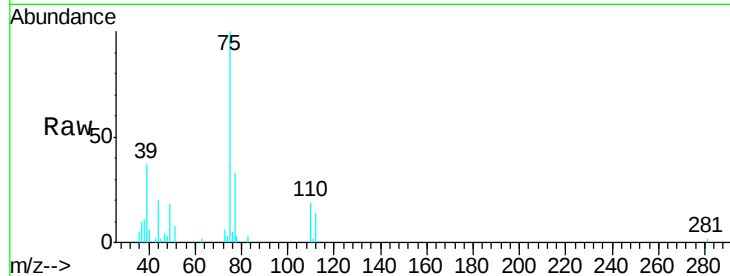
#51

cis-1,3-Dichloropropene
Concen: 0.468 ug/l
RT: 7.65 min Scan# 1962
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

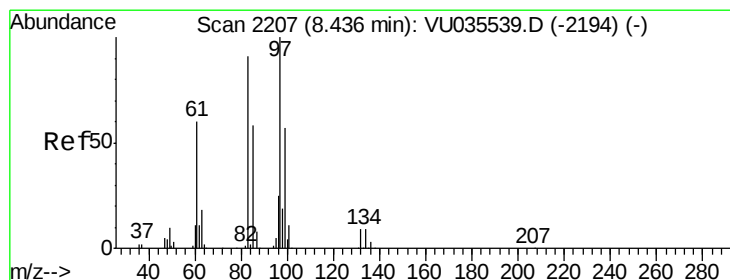
Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.8	25.2	37.8
39	36.9	32.1	48.1

Manual Integrations
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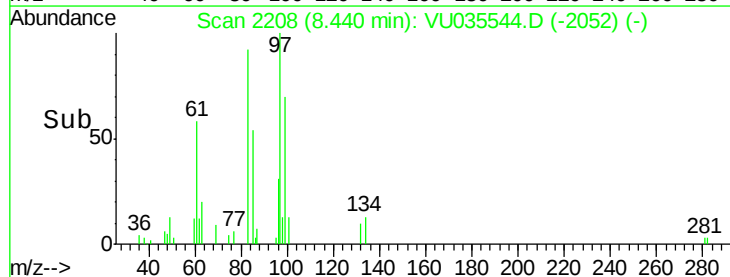
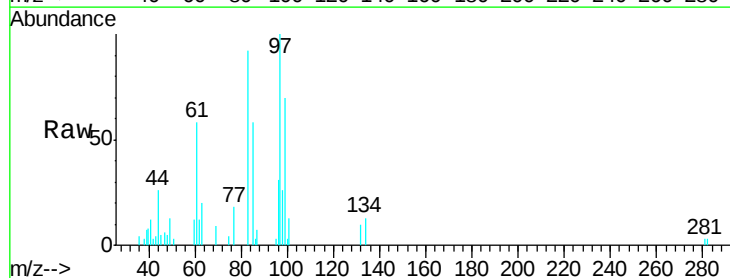
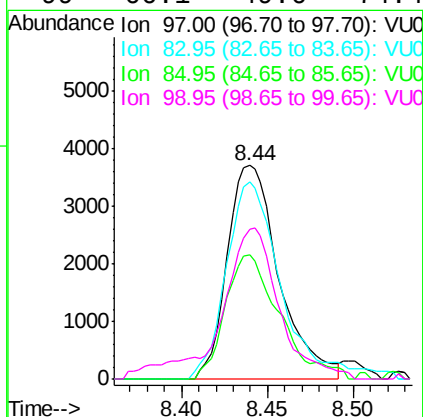
10/30/2019 10:39:14 AM

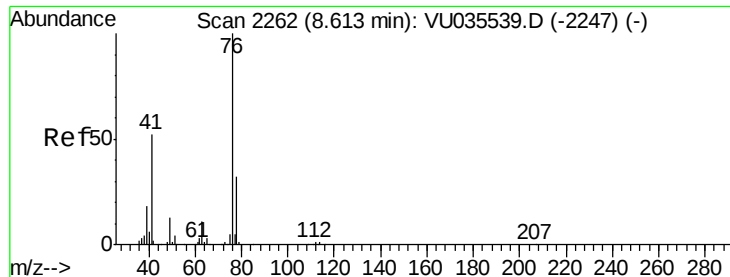


#52

1,1,2-Trichloroethane
Concen: 0.527 ug/l
RT: 8.44 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
97	100		
83	92.2	72.6	108.8
85	58.0	46.4	69.6
99	66.1	49.6	74.4





#53

1,3-Dichloropropane

Concen: 0.458 ug/l

RT: 8.62 min Scan# 2264

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

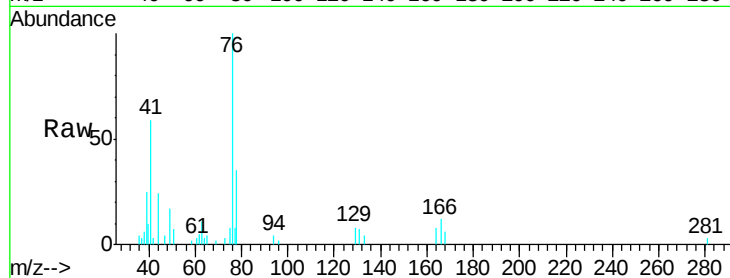
Tgt Ion: 76 Resp: 11444

Ion Ratio Lower Upper

76 100

78 35.4 25.6 38.4

Manual Integrations
APPROVED



Abundance Ion 76.00 (75.70 to 76.70): VU035539.D (-2247) (-)

Ion 78.00 (77.70 to 78.70): VU035539.D (-2247) (-)

8.62

8.65

8.68

8.71

8.74

8.77

8.80

8.83

8.86

8.89

8.92

8.95

8.98

9.01

9.04

9.07

9.10

9.13

9.16

9.19

9.22

9.25

9.28

9.31

9.34

9.37

9.40

9.43

9.46

9.49

9.52

9.55

9.58

9.61

9.64

9.67

9.70

9.73

9.76

9.79

9.82

9.85

9.88

9.91

9.94

9.97

10.00

10.03

10.06

10.09

10.12

10.15

10.18

10.21

10.24

10.27

10.30

10.33

10.36

10.39

10.42

10.45

10.48

10.51

10.54

10.57

10.60

10.63

10.66

10.69

10.72

10.75

10.78

10.81

10.84

10.87

10.90

10.93

10.96

10.99

11.02

11.05

11.08

11.11

11.14

11.17

11.20

11.23

11.26

11.29

11.32

11.35

11.38

11.41

11.44

11.47

11.50

11.53

11.56

11.59

11.62

11.65

11.68

11.71

11.74

11.77

11.80

11.83

11.86

11.89

11.92

11.95

11.98

12.01

12.04

12.07

12.10

12.13

12.16

12.19

12.22

12.25

12.28

12.31

12.34

12.37

12.40

12.43

12.46

12.49

12.52

12.55

12.58

12.61

12.64

12.67

12.70

12.73

12.76

12.79

12.82

12.85

12.88

12.91

12.94

12.97

13.00

13.03

13.06

13.09

13.12

13.15

13.18

13.21

13.24

13.27

13.30

13.33

13.36

13.39

13.42

13.45

13.48

13.51

13.54

13.57

13.60

13.63

13.66

13.69

13.72

13.75

13.78

13.81

13.84

13.87

13.90

13.93

13.96

13.99

14.02

14.05

14.08

14.11

14.14

14.17

14.20

14.23

14.26

14.29

14.32

14.35

14.38

14.41

14.44

14.47

14.50

14.53

14.56

14.59

14.62

14.65

14.68

14.71

14.74

14.77

14.80

14.83

14.86

14.89

14.92

14.95

14.98

15.01

15.04

15.07

15.10

15.13

15.16

15.19

15.22

15.25

15.28

15.31

15.34

15.37

15.40

15.43

15.46

15.49

15.52

15.55

15.58

15.61

15.64

15.67

15.70

15.73

15.76

15.79

15.82

15.85

15.88

15.91

15.94

15.97

16.00

16.03

16.06

16.09

16.12

16.15

16.18

16.21

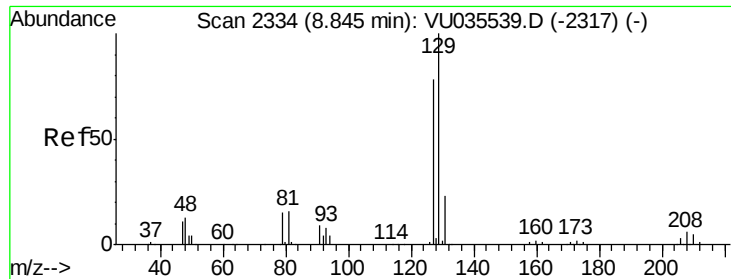
16.24

16.27

16.30

16.33

16.36



#55

Dibromochloromethane

Concen: 0.542 ug/l

RT: 8.84 min Scan# 2334

Delta R.T. -0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

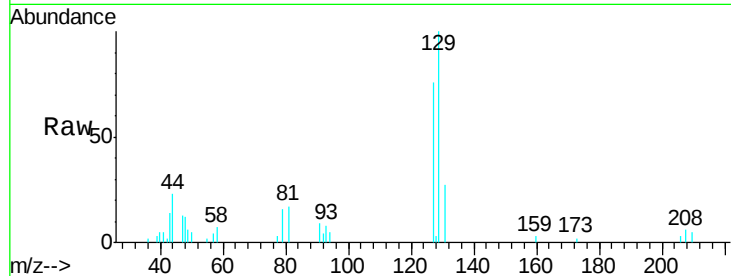
Tgt Ion:129 Resp: 9760

Ion Ratio Lower Upper

129 100

127 79.2 62.3 93.5

Manual Integrations
APPROVED



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.84

5000

4000

3000

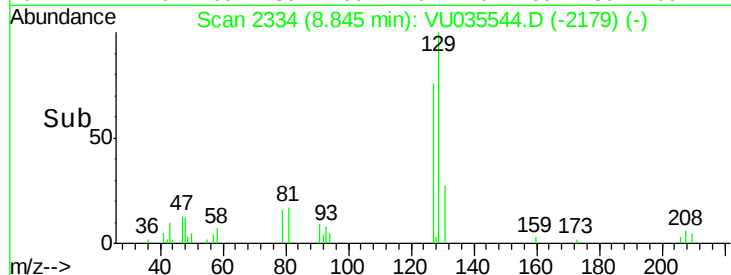
2000

1000

0

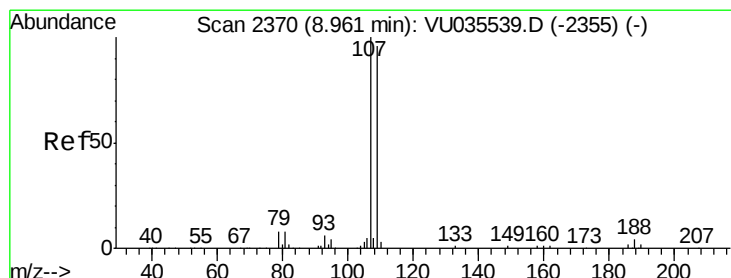
8.75 8.80 8.85 8.90 8.95

Time-->



MMDadoda

10/30/2019 10:39:14 AM



#56

1,2-Dibromoethane

Concen: 0.536 ug/l

RT: 8.97 min Scan# 2372

Delta R.T. 0.01 min

Lab File: VU035544.D

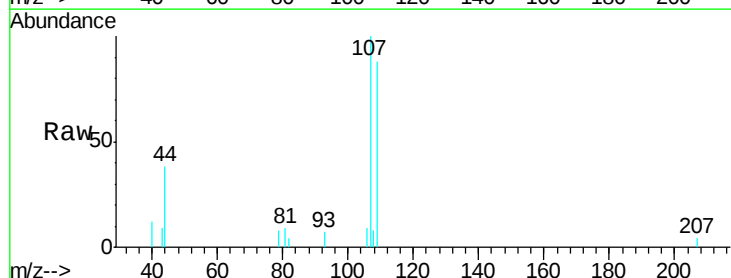
Acq: 29 Oct 2019 17:59

Tgt Ion:107 Resp: 7228

Ion Ratio Lower Upper

107 100

109 87.8 0.0 191.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.97

3000

2500

2000

1500

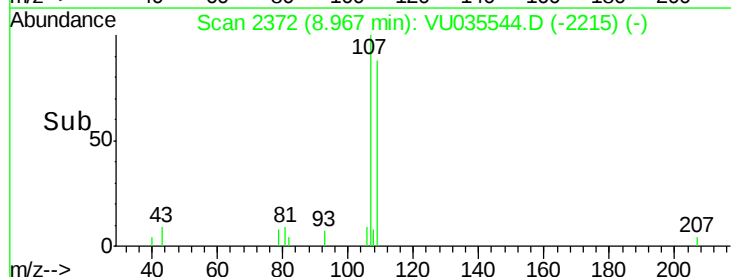
1000

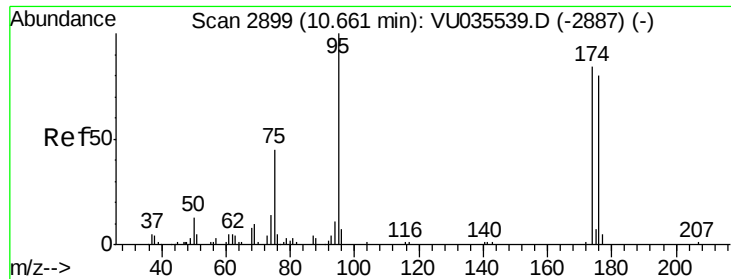
500

0

8.90 8.95 9.00 9.05

Time-->



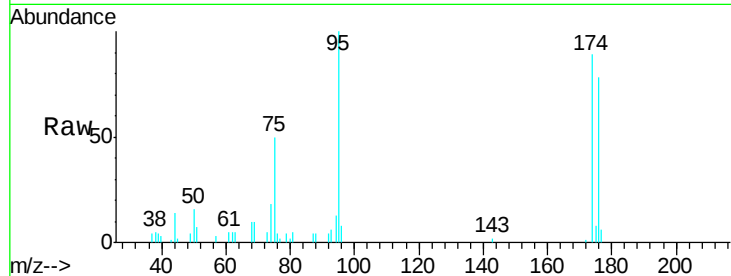


#57
4-Bromofluorobenzene
Concen: 0.796 ug/l
RT: 10.67 min Scan# 2902
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.7	70.2	105.4
176	79.7	67.7	101.5

Manual Integrations
APPROVED

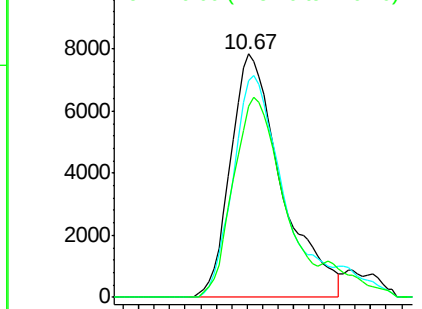


Abundance

Ion 95.00 (94.70 to 95.70): VU035539.D (-2887) (-)

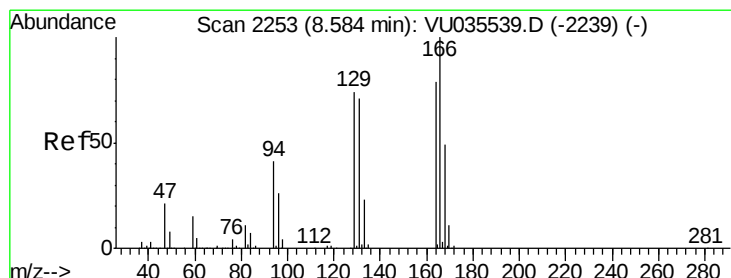
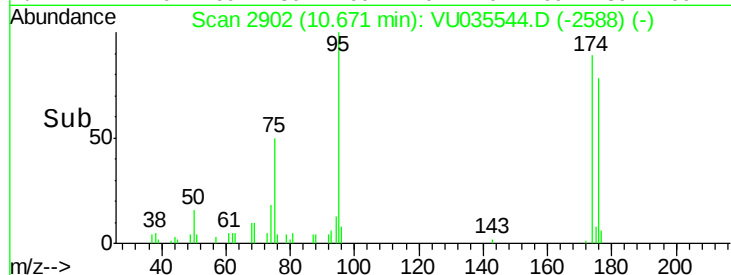
Ion 174.00 (173.70 to 174.70): VU035539.D (-2887) (-)

Ion 176.00 (175.70 to 176.70): VU035539.D (-2887) (-)



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10/30/2019 10:39:14 AM



#58
Tetrachloroethene
Concen: 0.535 ug/l
RT: 8.59 min Scan# 2254
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.6	151.0
129	82.1	74.1	111.1
131	83.5	71.1	106.7

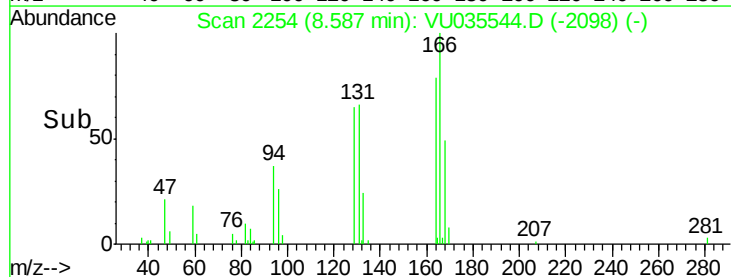
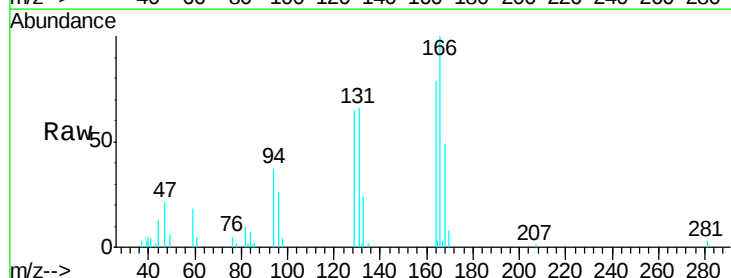
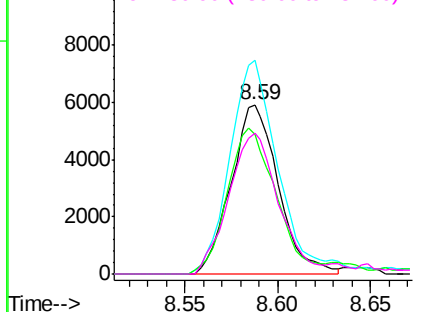
Abundance

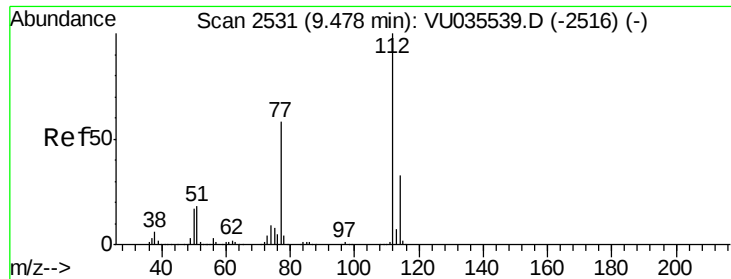
Ion 163.85 (163.55 to 164.55): VU035539.D (-2239) (-)

Ion 165.80 (165.50 to 166.50): VU035539.D (-2239) (-)

Ion 128.90 (128.60 to 129.60): VU035539.D (-2239) (-)

Ion 130.90 (130.60 to 131.60): VU035539.D (-2239) (-)



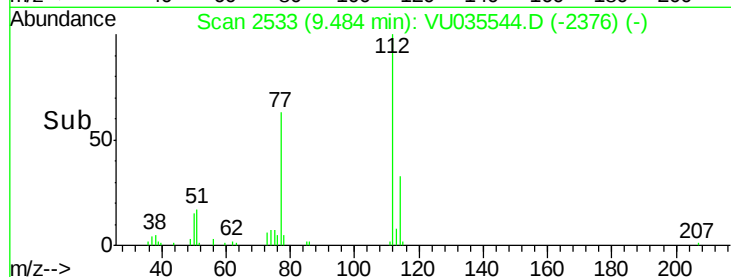
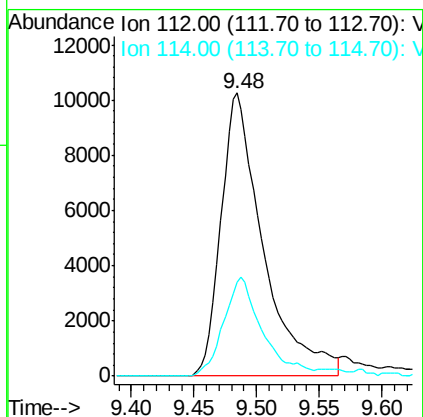
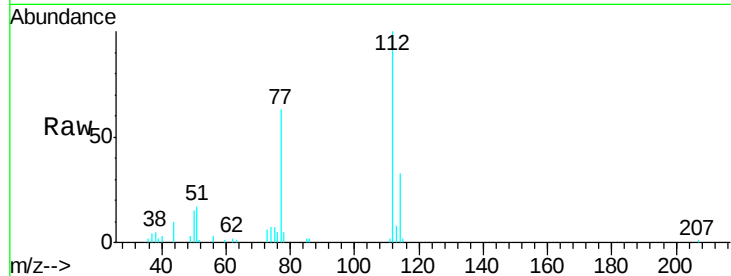


#59
Chlorobenzene
Concen: 0.473 ug/l
RT: 9.48 min Scan# 2533
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

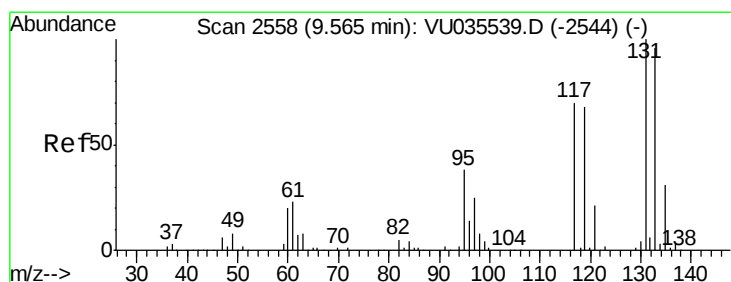
Tgt Ion:112 Resp: 24091
Ion Ratio Lower Upper
112 100
114 33.0 26.5 39.7

Manual Integrations
APPROVED



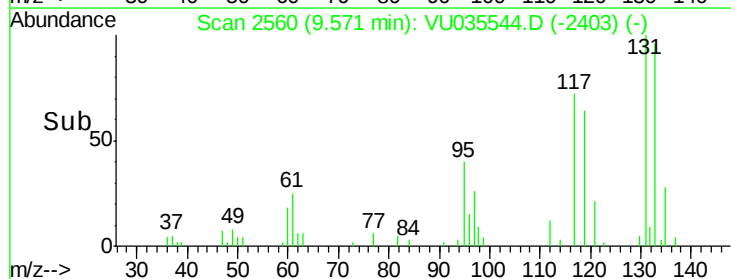
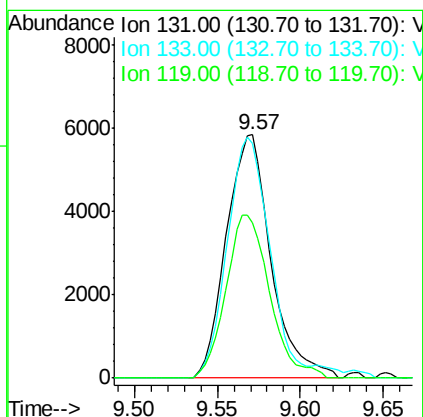
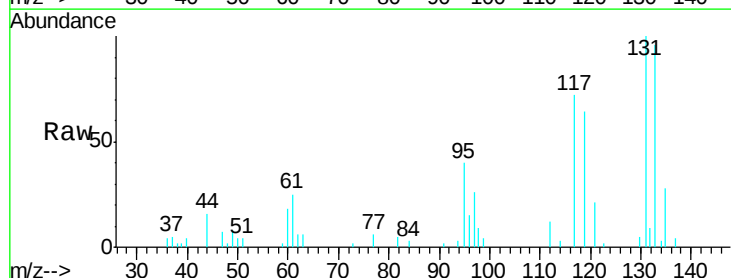
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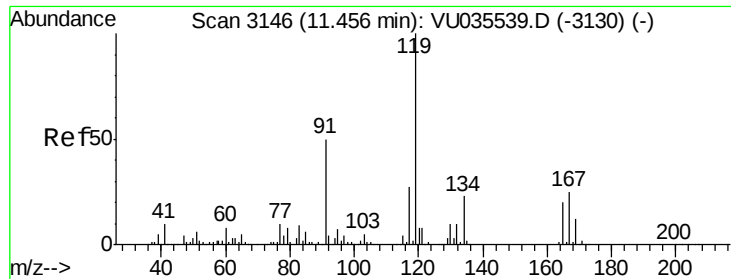
10/30/2019 10:39:14 AM



#60
1,1,1,2-Tetrachloroethane
Concen: 0.558 ug/l
RT: 9.57 min Scan# 2560
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion:131 Resp: 10925
Ion Ratio Lower Upper
131 100
133 96.2 76.9 115.3
119 65.8 53.6 80.4





#61

Pentachloroethane

Concen: 0.596 ug/l

RT: 11.46 min Scan# 3146

Delta R.T. -0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

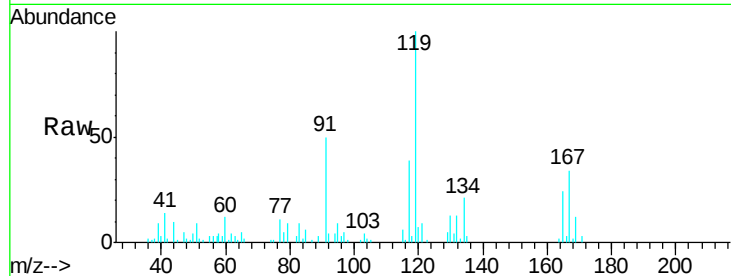
Tgt Ion:117 Resp: 9513

Ion Ratio Lower Upper

117 100

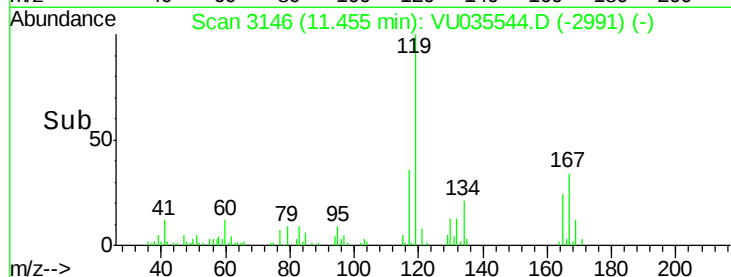
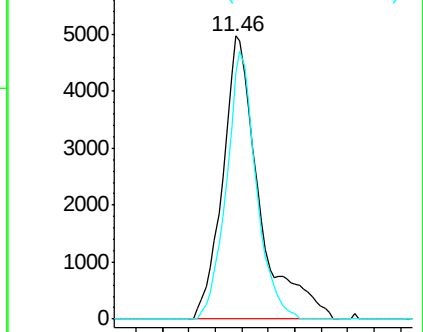
167 77.1 69.8 104.6

Manual Integrations
APPROVED



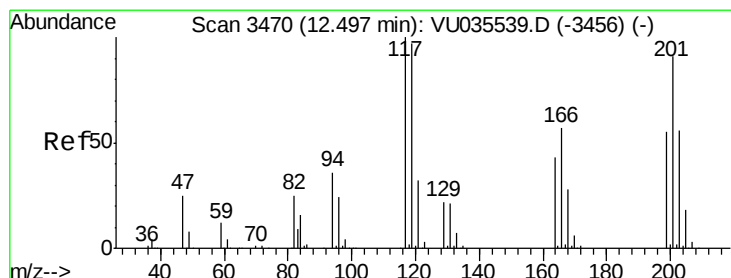
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



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10/30/2019 10:39:14 AM



#62

Hexachloroethane

Concen: 0.506 ug/l

RT: 12.50 min Scan# 3471

Delta R.T. 0.00 min

Lab File: VU035544.D

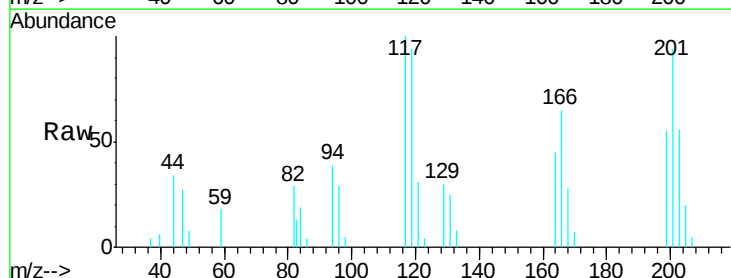
Acq: 29 Oct 2019 17:59

Tgt Ion:117 Resp: 7375

Ion Ratio Lower Upper

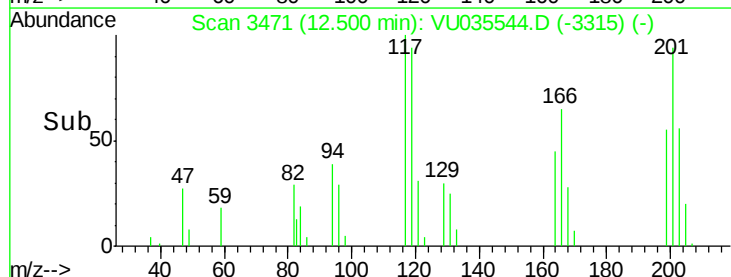
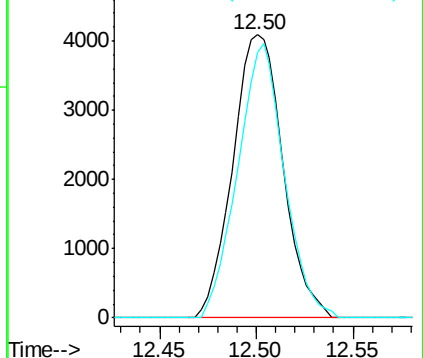
117 100

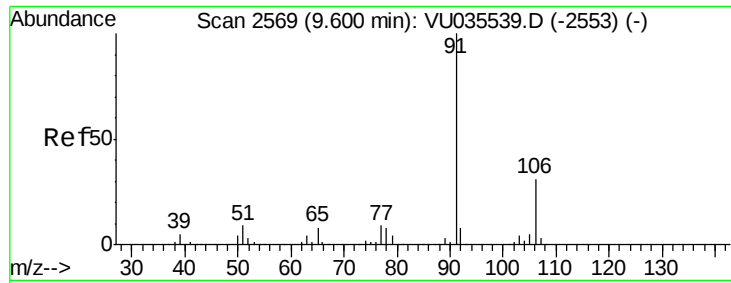
201 90.3 71.8 107.8



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V



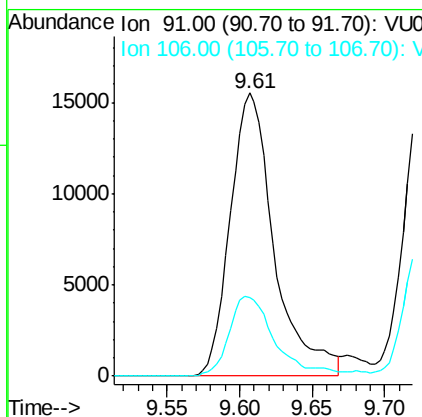
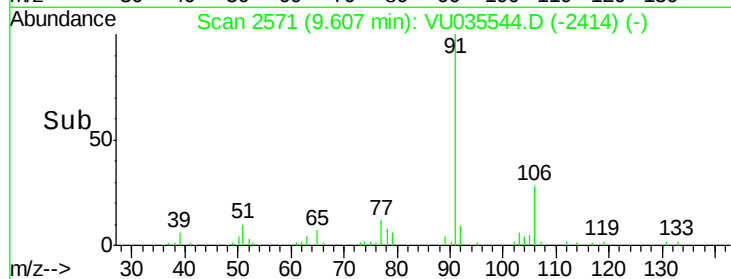
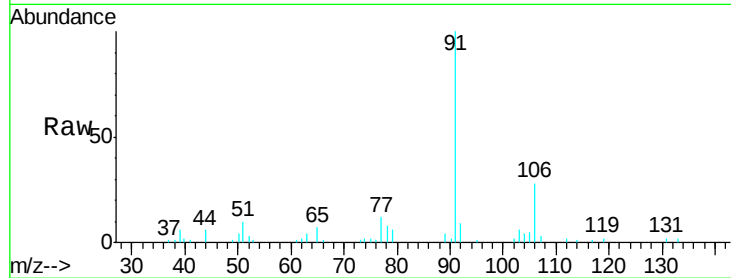


#63
Ethyl Benzene
Concen: 0.413 ug/l
RT: 9.61 min Scan# 2571
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

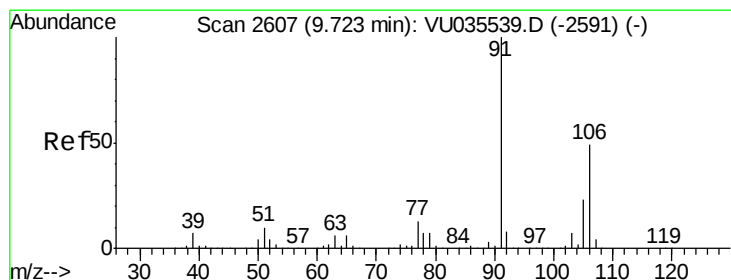
Tgt Ion: 91 Resp: 32704
Ion Ratio Lower Upper
91 100
106 27.9 25.2 37.8

Manual Integrations
APPROVED



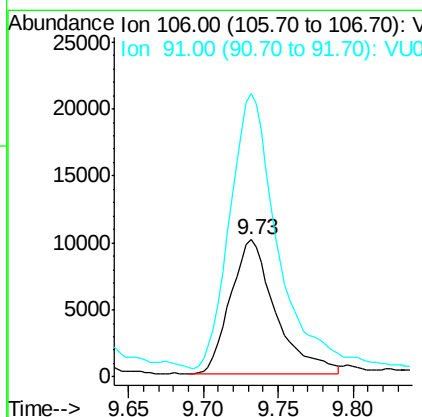
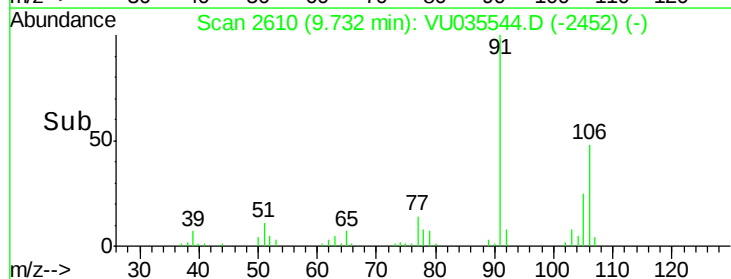
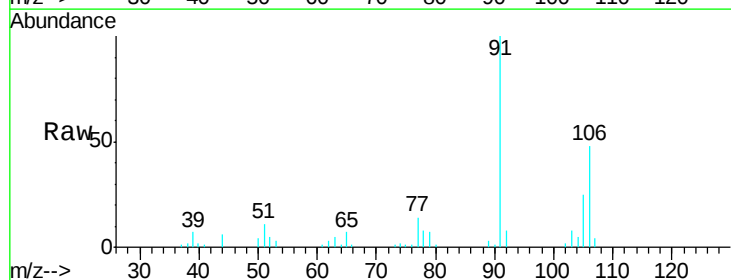
MMDadoda

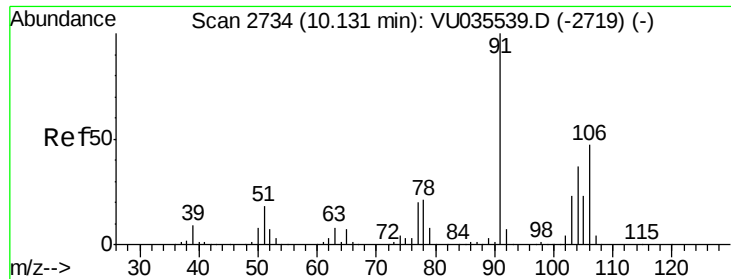
10/30/2019 10:39:14 AM



#64
m/p-Xylenes
Concen: 0.683 ug/l
RT: 9.73 min Scan# 2610
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion: 106 Resp: 21335
Ion Ratio Lower Upper
106 100
91 226.9 81.0 121.4#



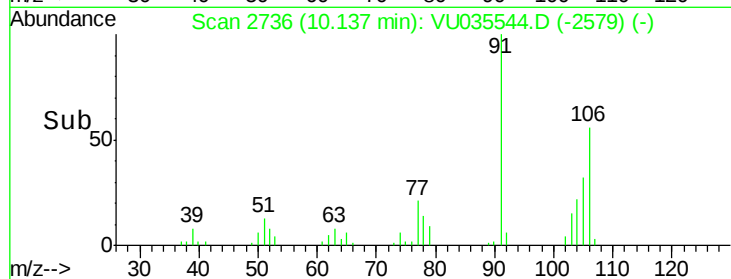
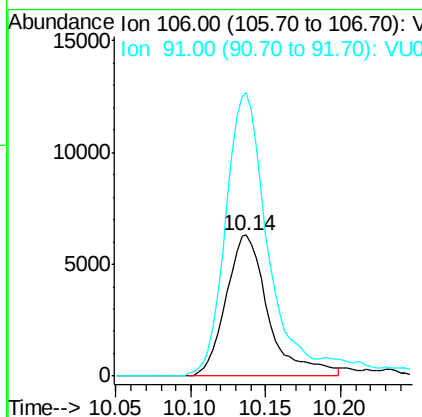
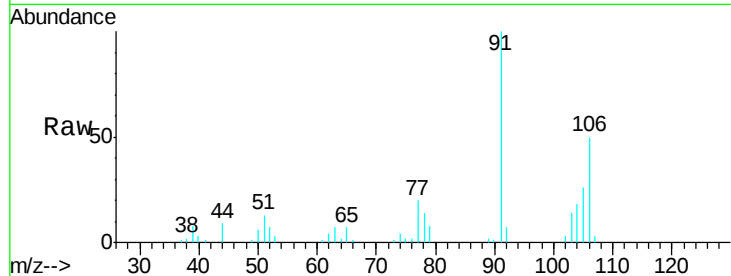


#65
o-Xylene
Concen: 0.413 ug/l
RT: 10.14 min Scan# 2736
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

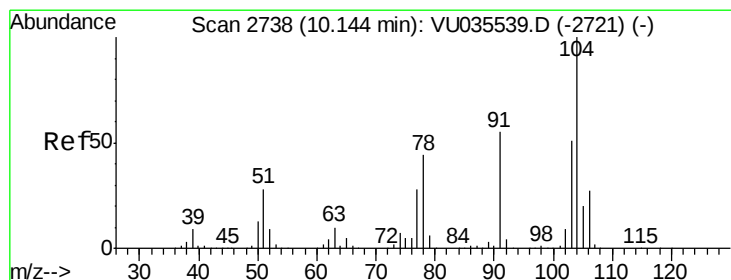
Tgt Ion:106 Resp: 12460
Ion Ratio Lower Upper
106 100
91 194.7 107.1 321.1

Manual Integrations
APPROVED



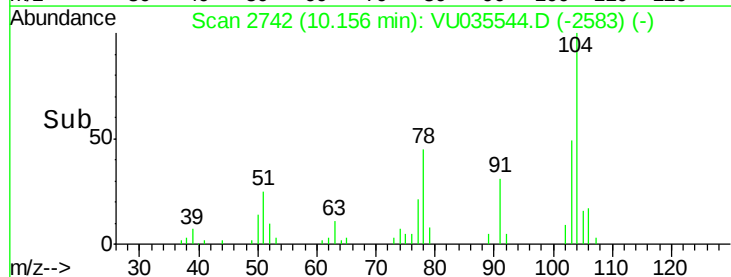
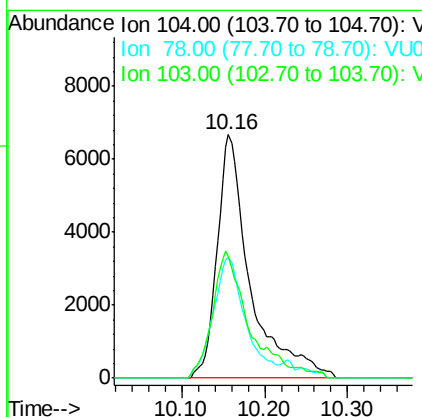
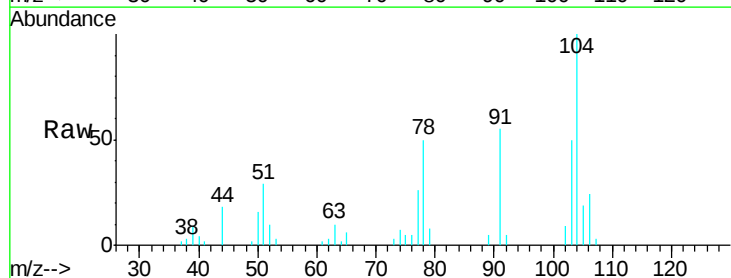
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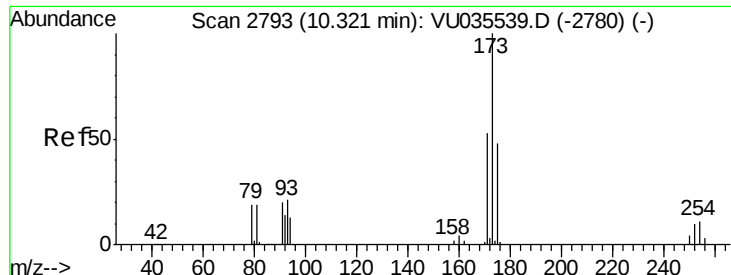
10/30/2019 10:39:14 AM



#66
Styrene
Concen: 0.369 ug/l
RT: 10.16 min Scan# 2742
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion:104 Resp: 18431
Ion Ratio Lower Upper
104 100
78 49.0 38.6 58.0
103 57.4 43.6 65.4





#67

Bromoform

Concen: 0.463 ug/l

RT: 10.33 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tgt Ion:173 Resp: 5173

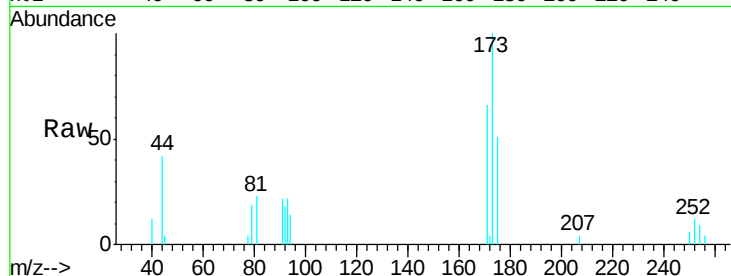
Ion Ratio Lower Upper

173 100

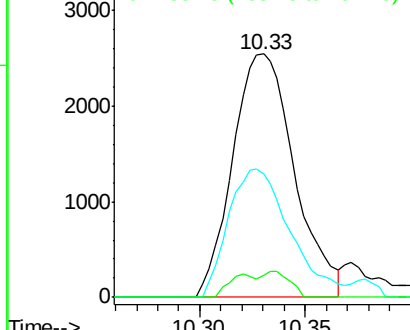
175 52.7 38.7 58.1

254 4.7 8.2 12.2#

Manual Integrations
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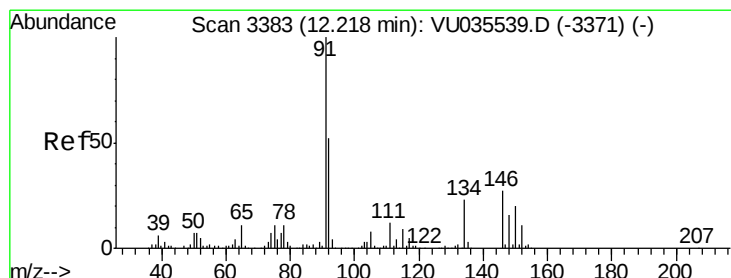
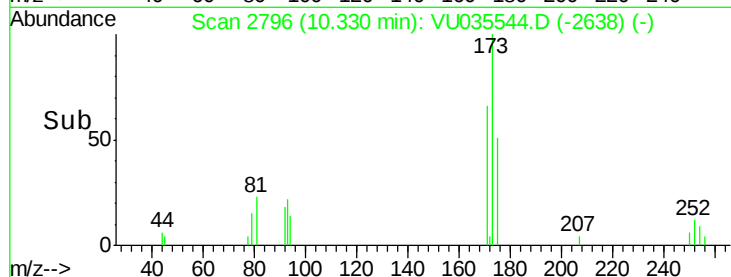


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



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10/30/2019 10:39:14 AM



#68

1,2-Dichlorobenzene-d4

Concen: 0.805 ug/l

RT: 12.23 min Scan# 3386

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

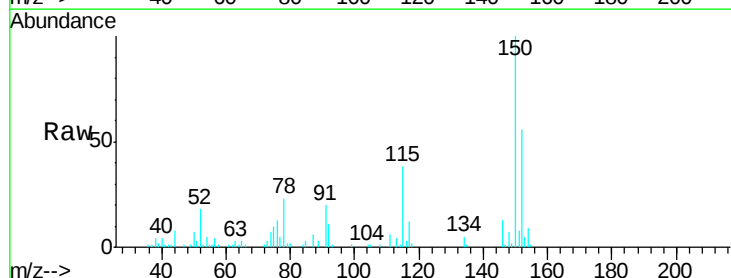
Tgt Ion:152 Resp: 19282

Ion Ratio Lower Upper

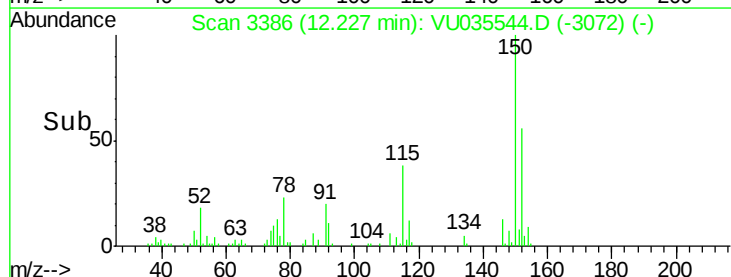
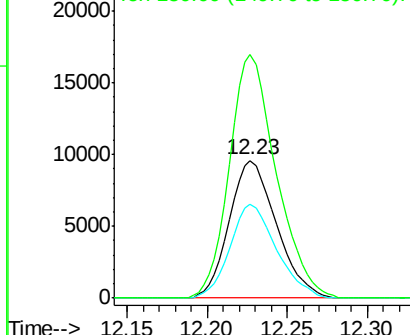
152 100

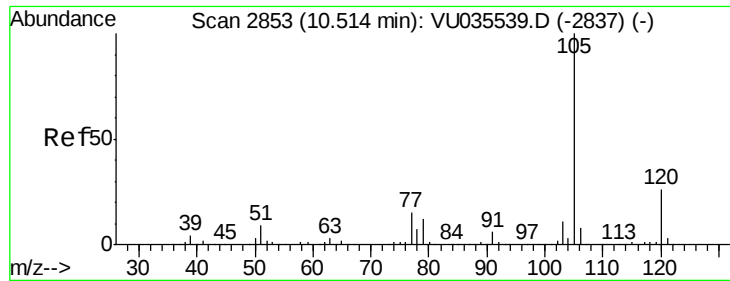
115 67.2 0.0 250.6

150 175.9 0.0 656.8



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: 0.405 ug/l

RT: 10.52 min Scan# 2854

Delta R.T. 0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

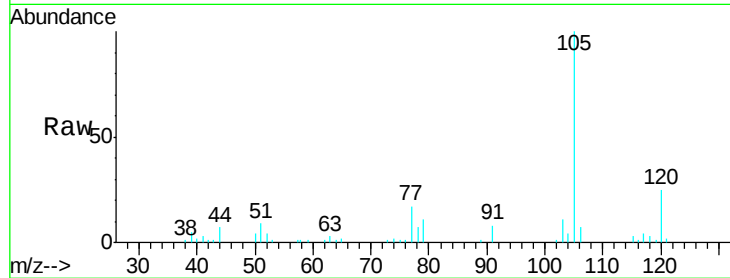
Tgt Ion: 105 Resp: 31883

Ion Ratio Lower Upper

105 100

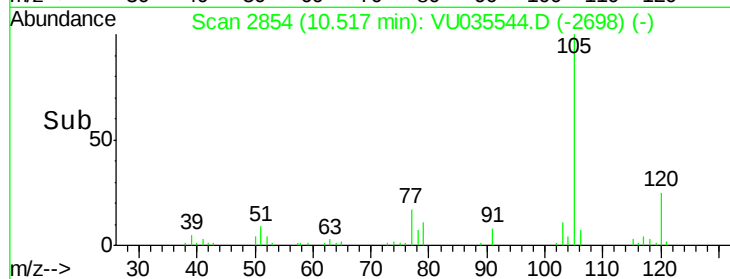
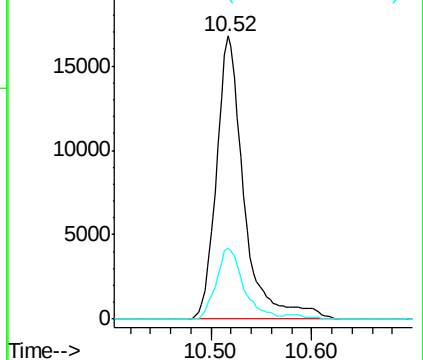
120 25.0 13.2 39.5

Manual Integrations
APPROVED



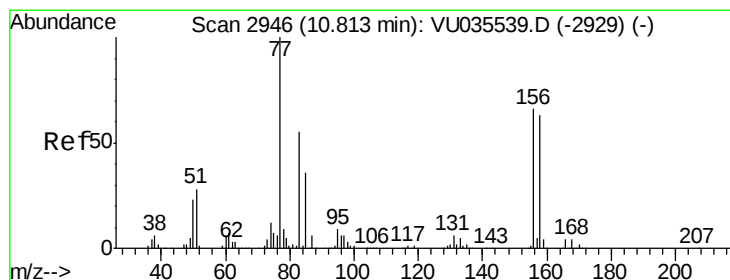
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



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10/30/2019 10:39:14 AM



#70

1,1,2,2-Tetrachloroethane

Concen: 0.487 ug/l

RT: 10.82 min Scan# 2948

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

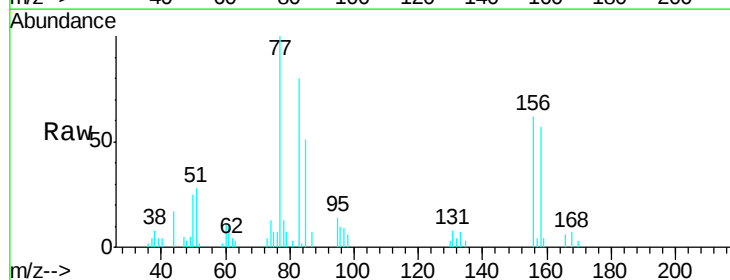
Tgt Ion: 83 Resp: 9570

Ion Ratio Lower Upper

83 100

131 9.4 0.0 0.0#

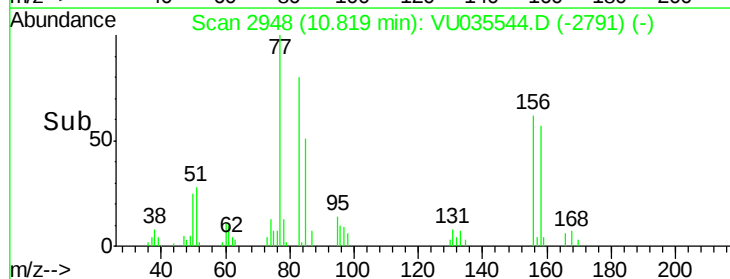
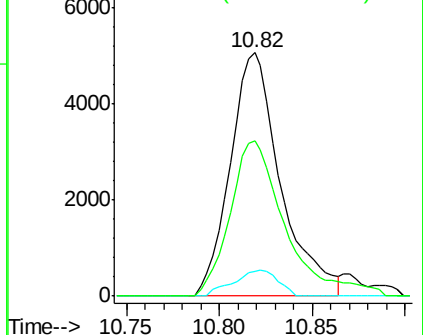
85 69.9 33.5 50.3#

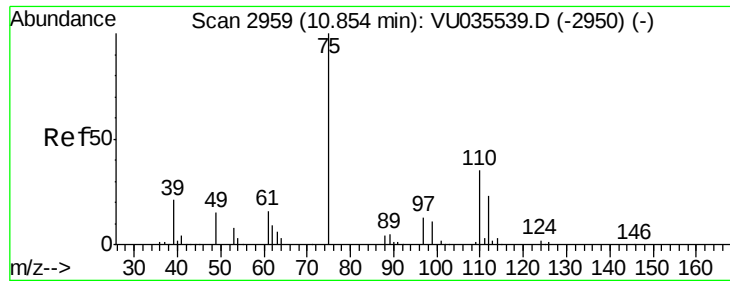


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0



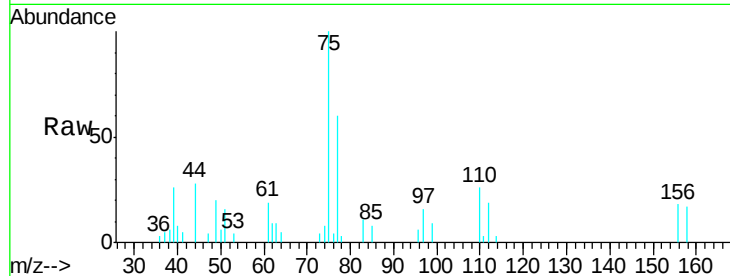


#71
1,2,3-Trichloropropane
Concen: 0.506 ug/l m
RT: 10.86 min Scan# 2962
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

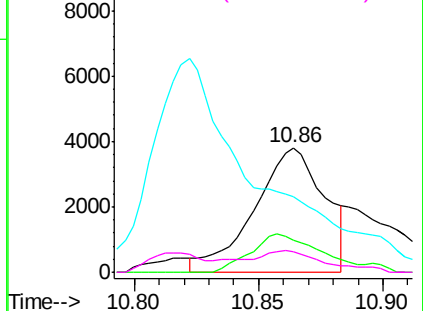
Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	68.6
110	31.9	0.0	77.2
97	16.2	0.0	39.0

Manual Integrations
APPROVED

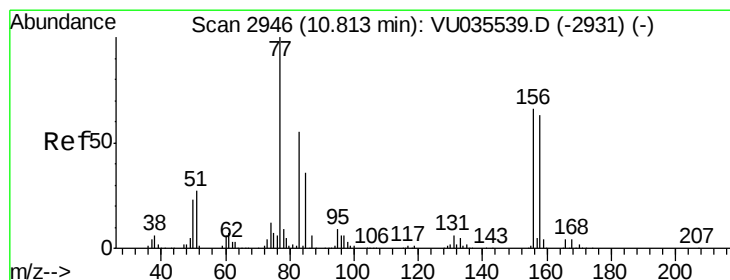
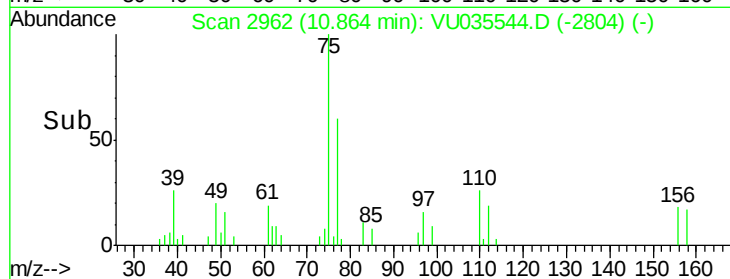


Abundance Ion 75.00 (74.70 to 75.70): VU035539.D (-2950) (-)
Ion 77.00 (76.70 to 77.70): VU035539.D (-2950) (-)
Ion 110.00 (109.70 to 110.70): VU035539.D (-2950) (-)
Ion 97.00 (96.70 to 97.70): VU035539.D (-2950) (-)



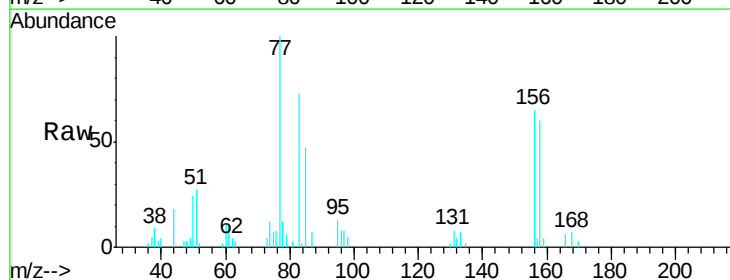
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10/30/2019 10:39:14 AM

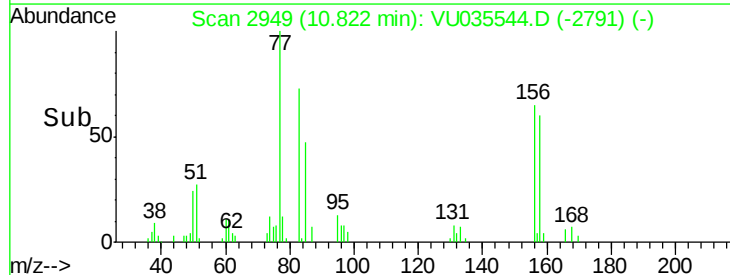
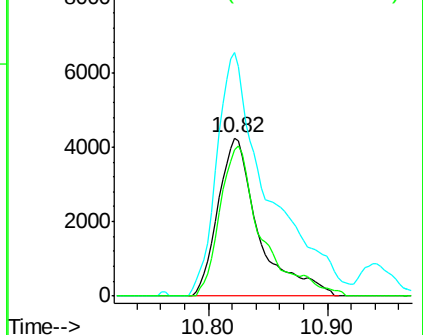


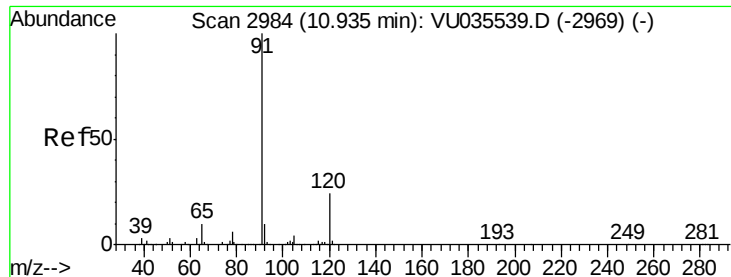
#72
Bromobenzene
Concen: 0.459 ug/l
RT: 10.82 min Scan# 2949
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
156	100		
77	196.0	0.0	300.4
158	96.7	0.0	194.4



Abundance Ion 156.00 (155.70 to 156.70): VU035539.D (-2931) (-)
Ion 77.00 (76.70 to 77.70): VU035539.D (-2931) (-)
Ion 158.00 (157.70 to 158.70): VU035539.D (-2931) (-)



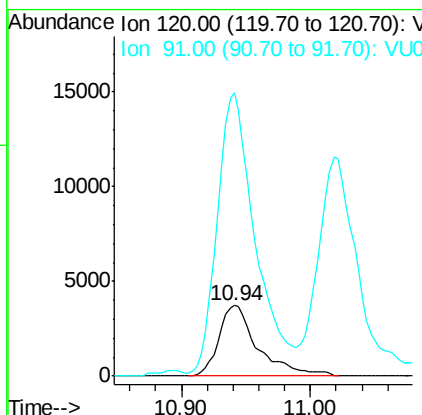
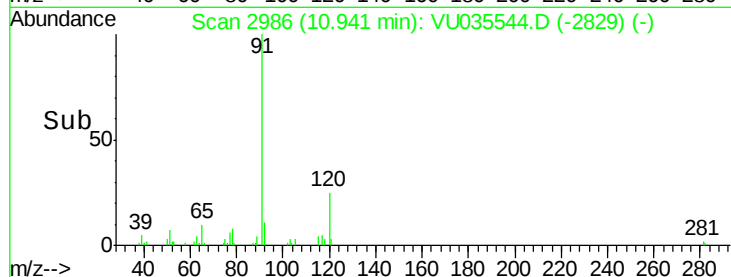
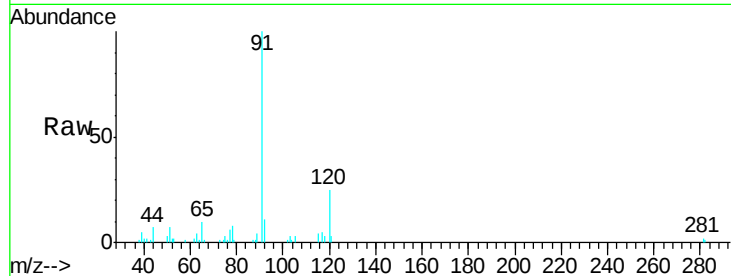


#73
n-propylbenzene
Concen: 0.356 ug/l
RT: 10.94 min Scan# 2986
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

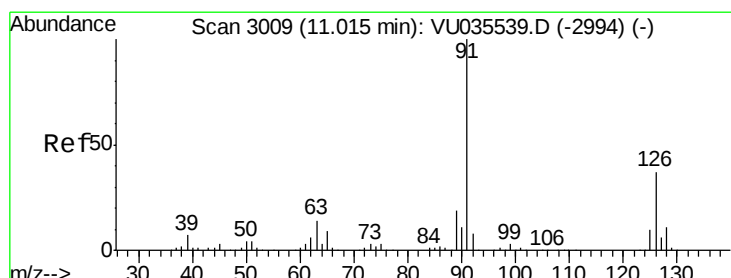
Tgt Ion:120 Resp: 7819
Ion Ratio Lower Upper
120 100
91 395.5 340.6 510.8

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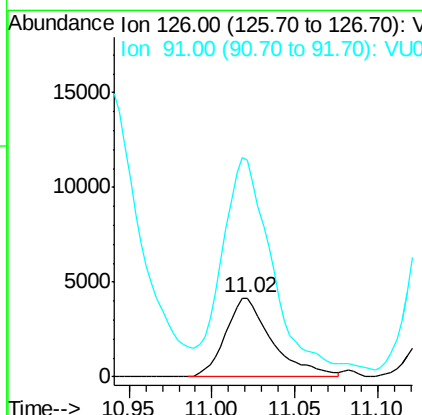
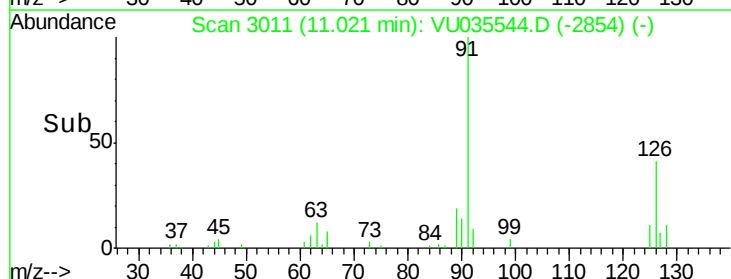
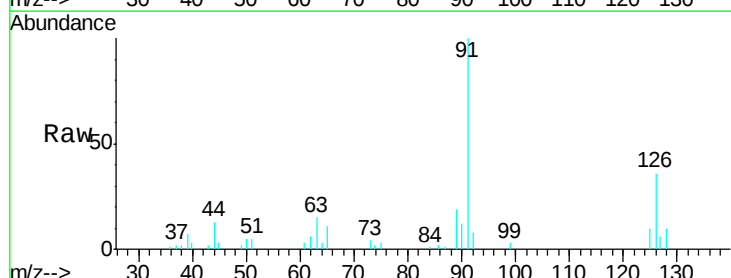
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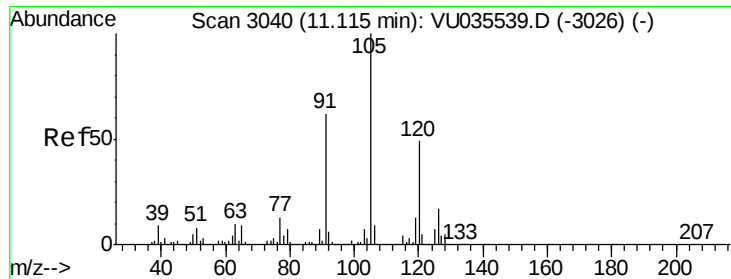
10/30/2019 10:39:14 AM



#74
2-Chlorotoluene
Concen: 0.395 ug/l
RT: 11.02 min Scan# 3011
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion:126 Resp: 8146
Ion Ratio Lower Upper
126 100
91 312.6 0.0 574.2





#75

1,3,5-Trimethylbenzene

Concen: 0.329 ug/l

RT: 11.12 min Scan# 3042

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

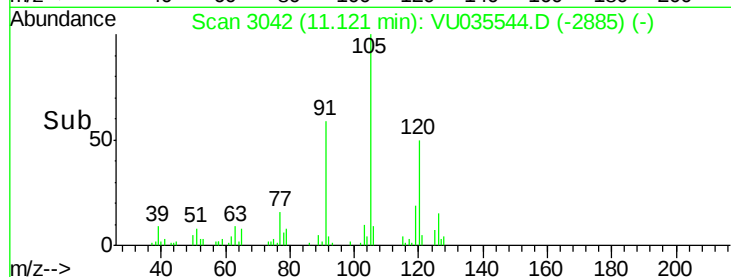
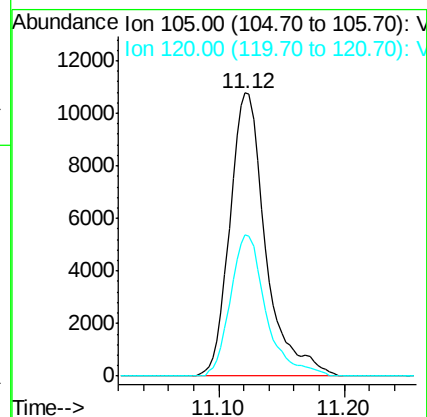
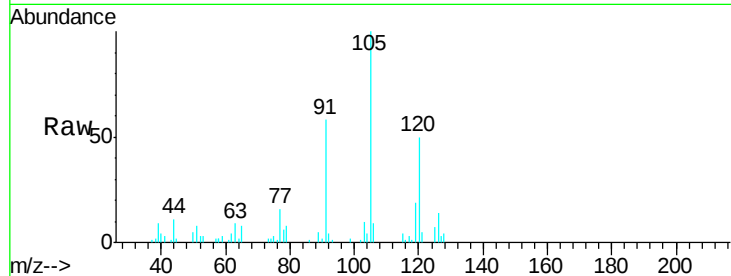
Tgt Ion:105 Resp: 21324

Ion Ratio Lower Upper

105 100

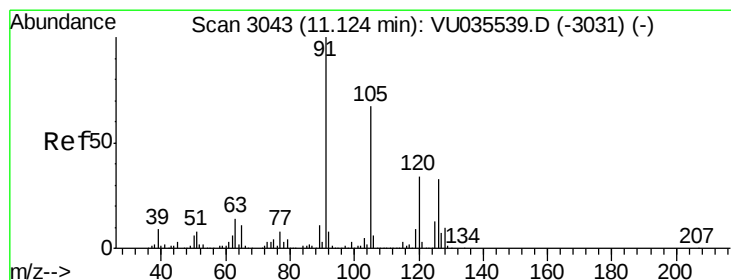
120 49.5 39.4 59.2

Manual Integrations
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10/30/2019 10:39:14 AM



#76

4-Chlorotoluene

Concen: 0.333 ug/l

RT: 11.14 min Scan# 3047

Delta R.T. 0.01 min

Lab File: VU035544.D

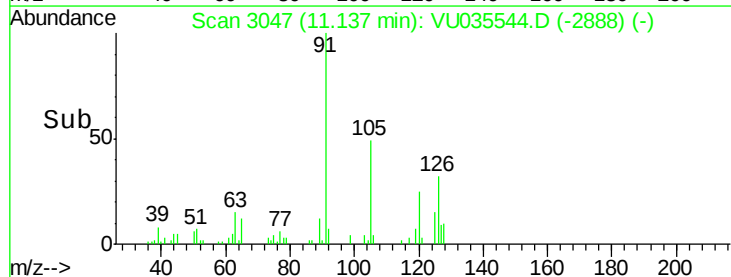
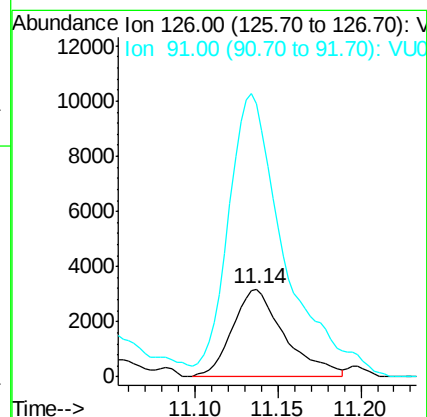
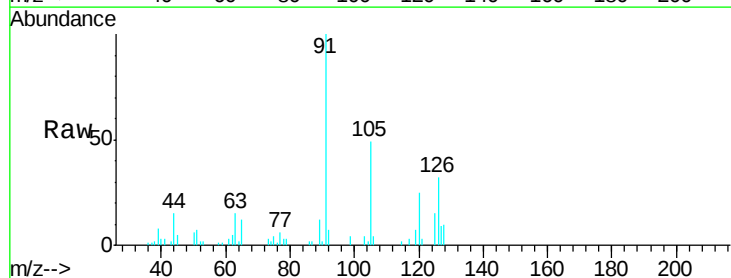
Acq: 29 Oct 2019 17:59

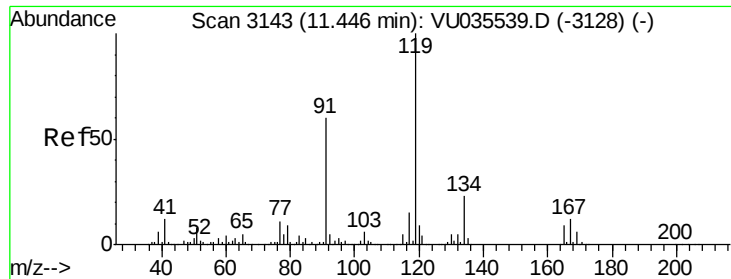
Tgt Ion:126 Resp: 6978

Ion Ratio Lower Upper

126 100

91 347.7 0.0 637.0



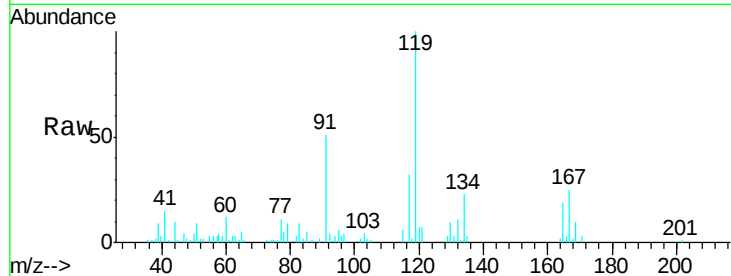


#77
 tert-Butylbenzene
 Concen: 0.377 ug/l
 RT: 11.45 min Scan# 3145
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

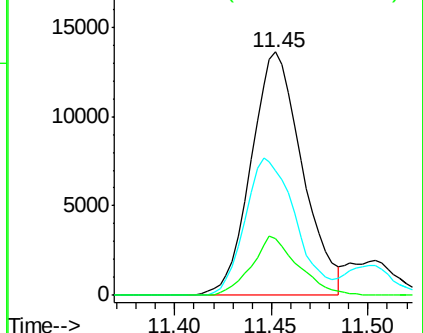
Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	25066		
91	55.5		27.9	83.7
134	22.1		18.3	27.5

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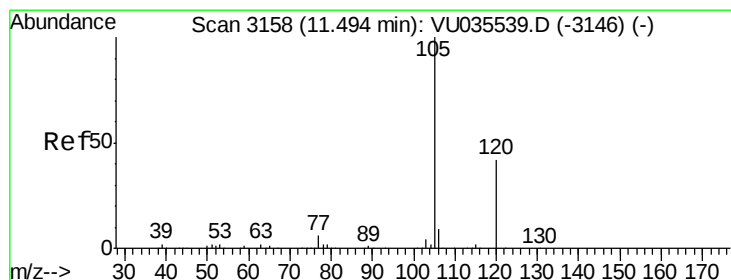
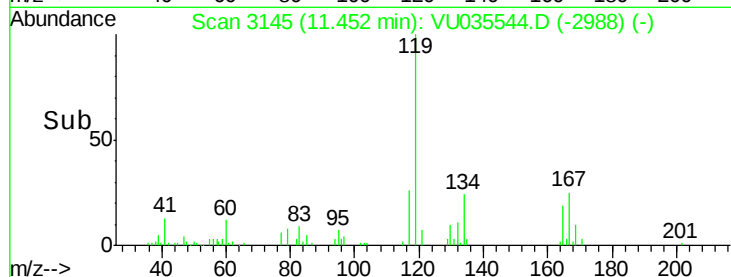


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V



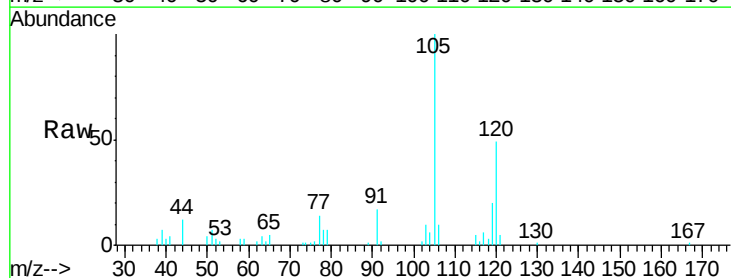
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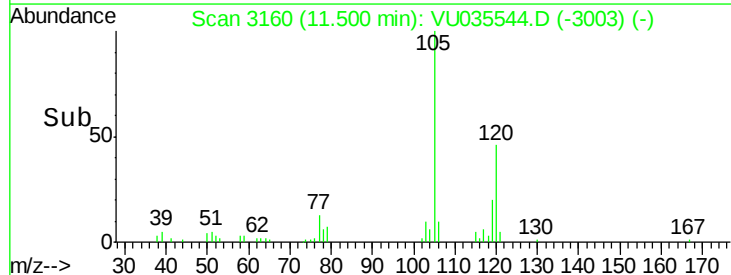
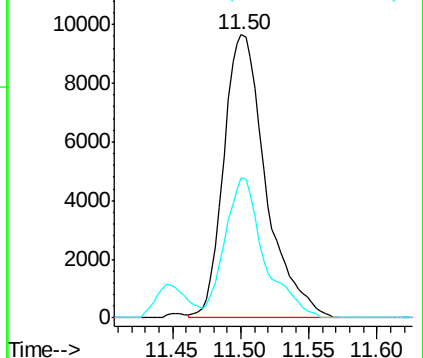


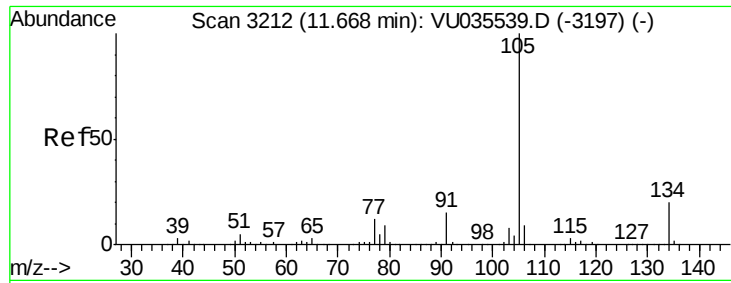
#78
 1,2,4-Trimethylbenzene
 Concen: 0.316 ug/l
 RT: 11.50 min Scan# 3160
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	20735		
120	46.1		23.2	69.5



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





#79

sec-Butylbenzene

Concen: 0.312 ug/l

RT: 11.67 min Scan# 3214

Delta R.T. 0.01 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT4-2019

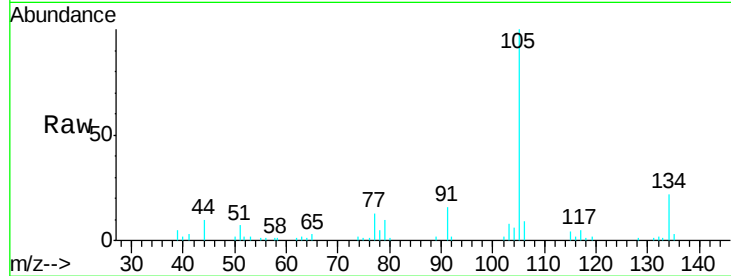
Tgt Ion: 105 Resp: 26532

Ion Ratio Lower Upper

105 100

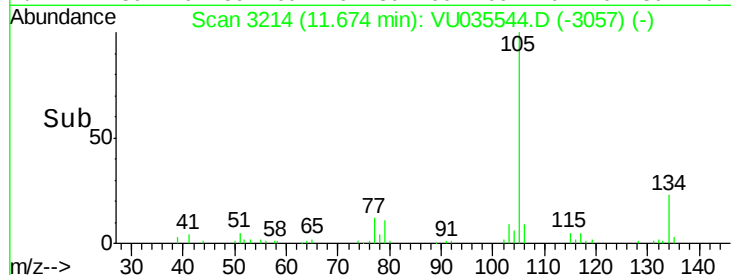
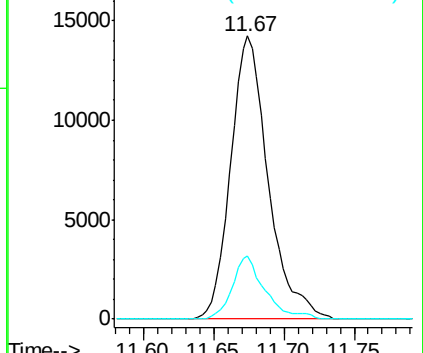
134 19.3 15.9 23.9

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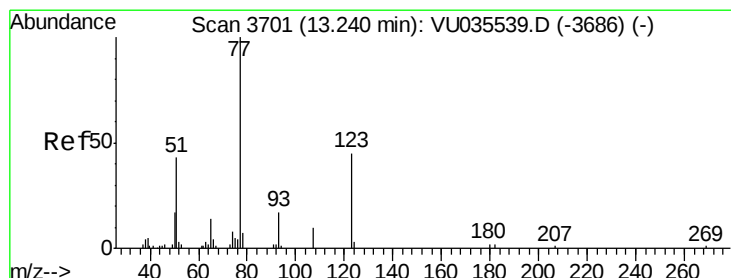
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



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10/30/2019 10:39:14 AM



#80

Nitrobenzene

Concen: 1.357 ug/l

RT: 13.24 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VU035544.D

Acq: 29 Oct 2019 17:59

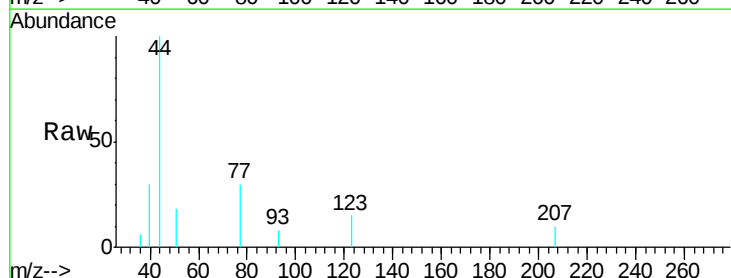
Tgt Ion: 77 Resp: 894

Ion Ratio Lower Upper

77 100

123 25.7 18.9 67.1

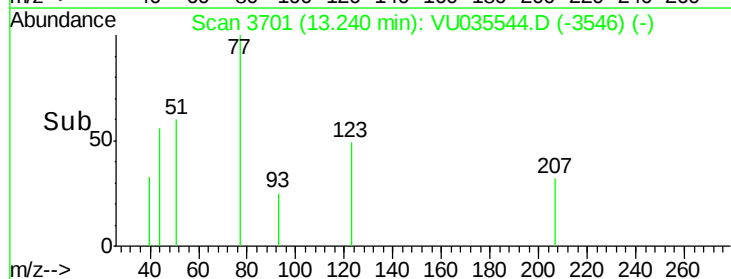
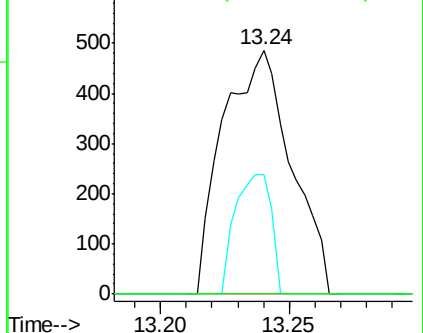
65 0.0 11.2 14.2#

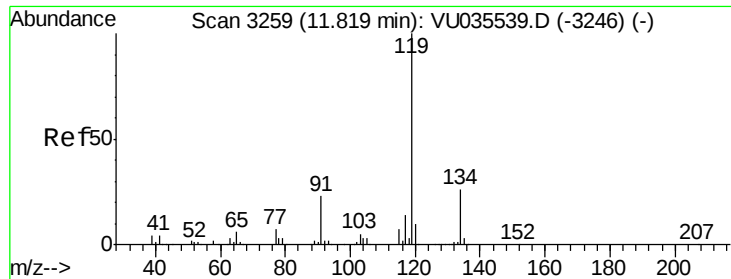


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0



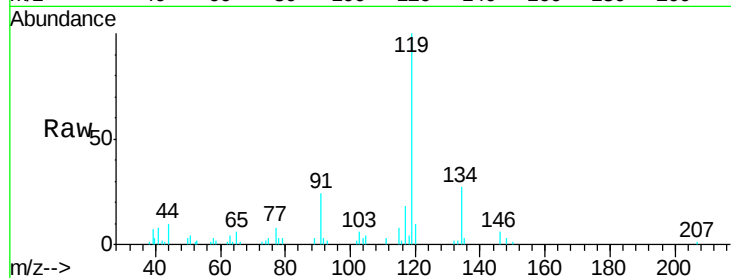


#81
p-Isopropyltoluene
Concen: 0.291 ug/l
RT: 11.83 min Scan# 3261
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	19782		
134	25.2	17.0	25.4	
91	23.8	41.3	61.9	

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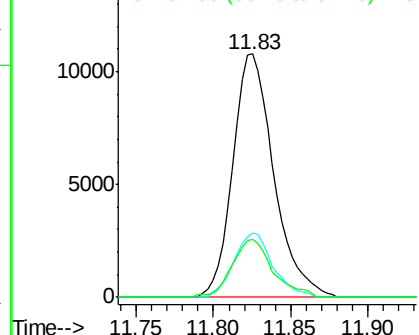


Abundance

Ion 119.00 (118.70 to 119.70): V

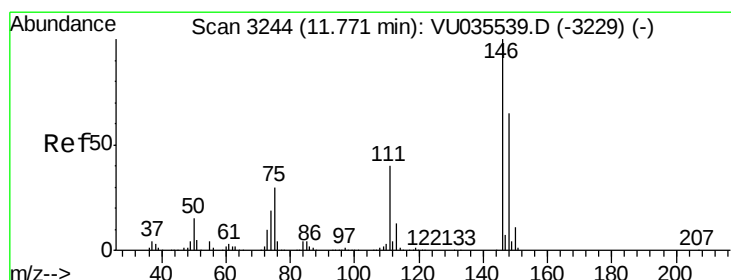
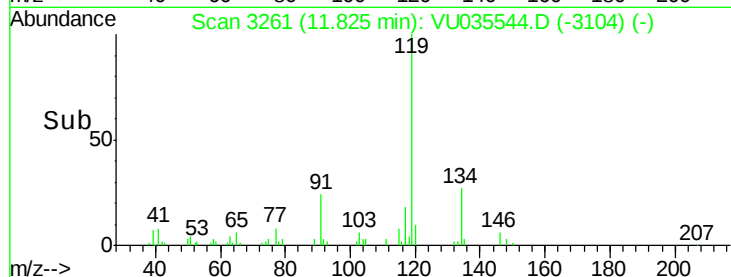
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



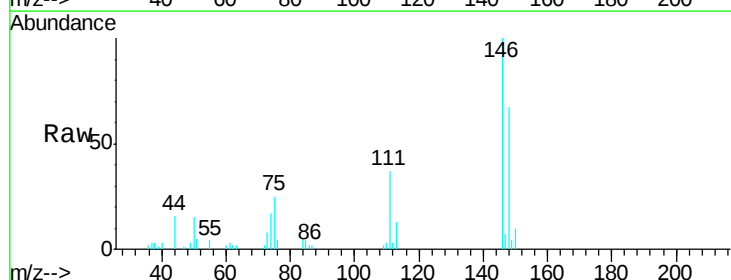
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10/30/2019 10:39:14 AM



#82
1,3-Dichlorobenzene
Concen: 0.394 ug/l
RT: 11.78 min Scan# 3248
Delta R.T. 0.01 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	16470		
111	37.6	31.8	47.6	
148	64.6	50.9	76.3	

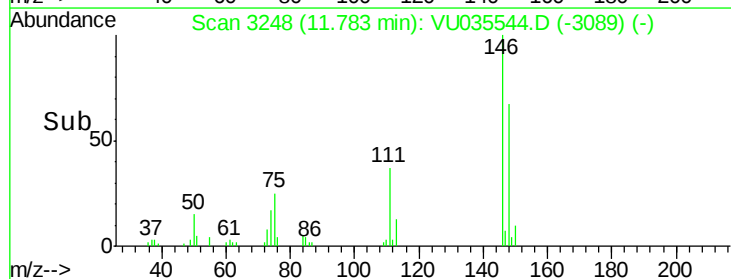
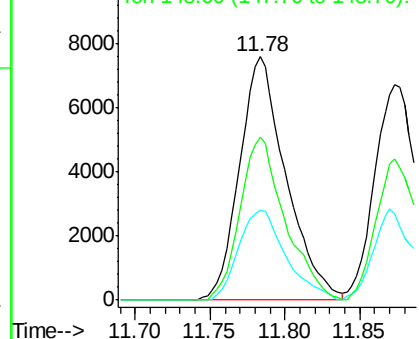


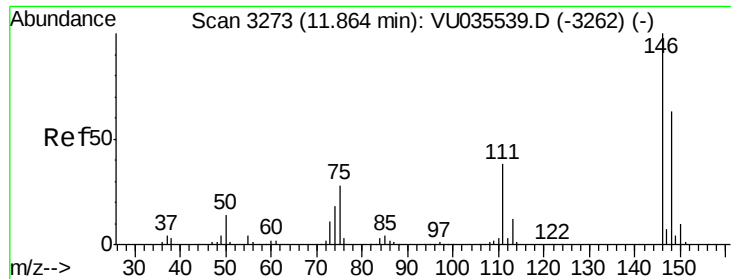
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



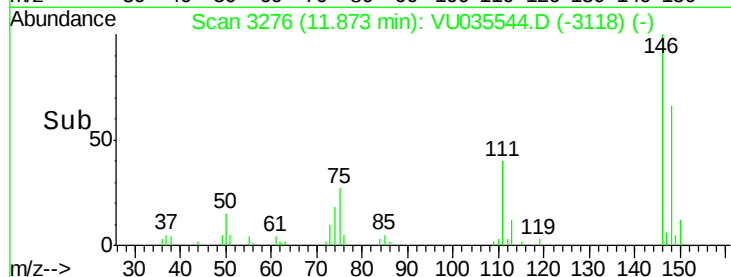
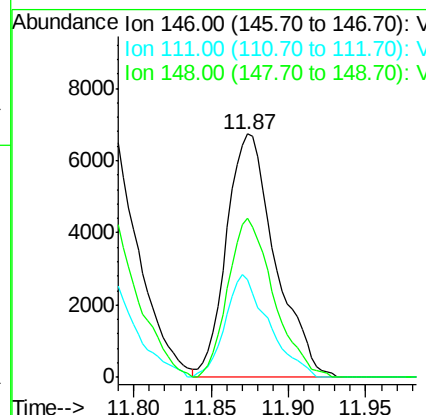
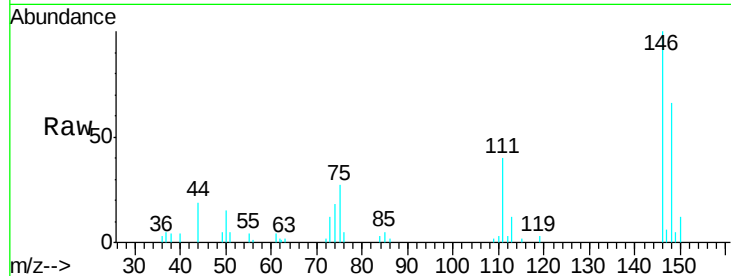


#83
 1,4-Dichlorobenzene
 Concen: 0.368 ug/l
 RT: 11.87 min Scan# 3276
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

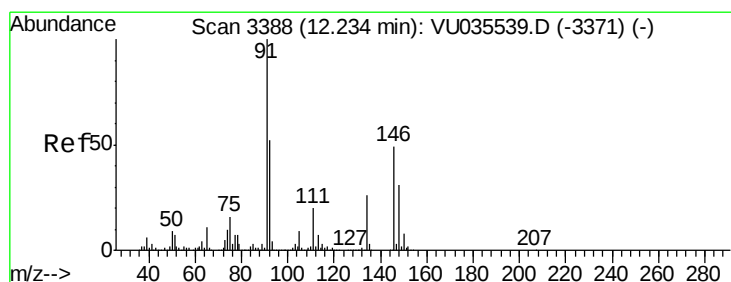
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	30.1	45.1
148	61.5	51.0	76.4

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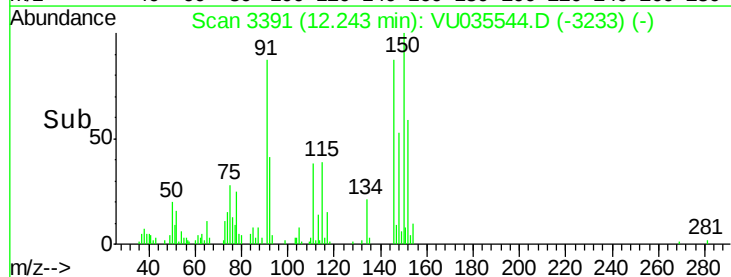
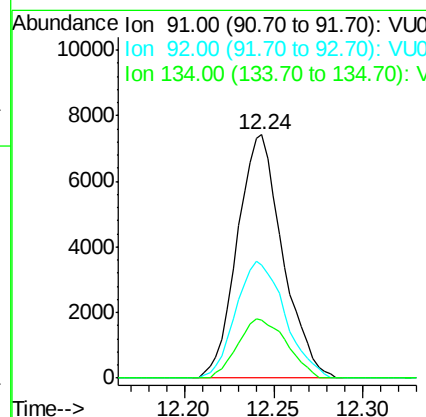
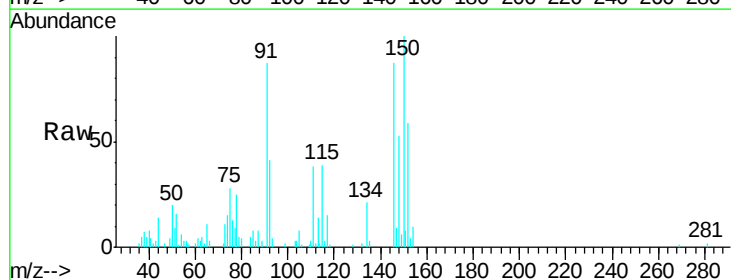
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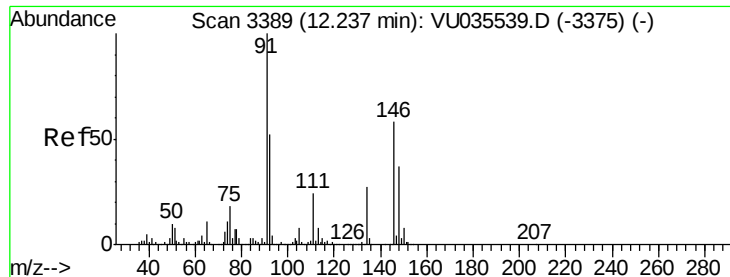
10/30/2019 10:39:14 AM



#84
 n-Butylbenzene
 Concen: 0.235 ug/l
 RT: 12.24 min Scan# 3391
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.0	41.4	62.0
134	26.1	20.6	30.8



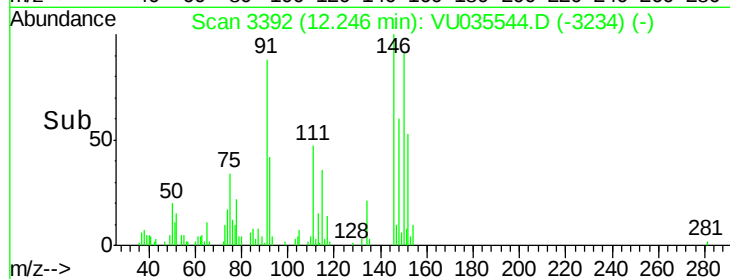
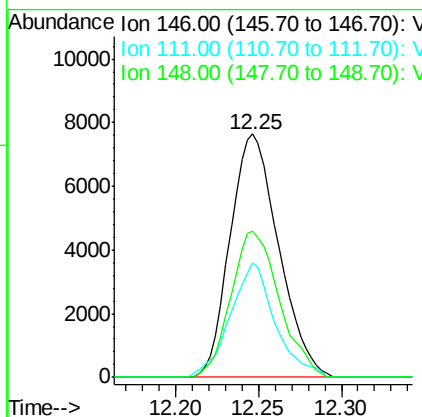
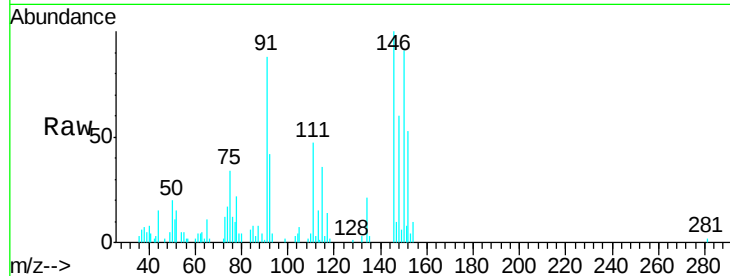


#85
 1,2-Dichlorobenzene
 Concen: 0.394 ug/l
 RT: 12.25 min Scan# 3392
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

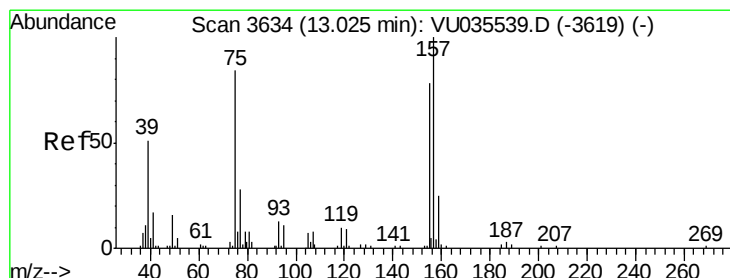
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	15506		
111	43.3	20.5	61.5	
148	60.2	32.0	96.2	

Manual Integrations
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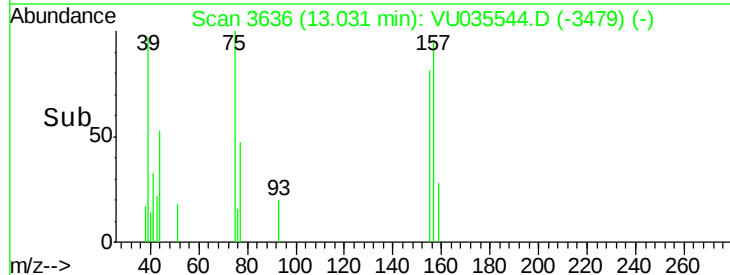
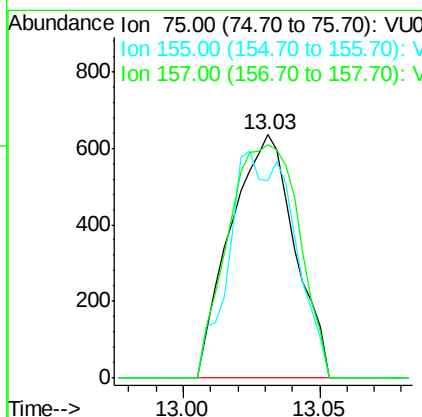
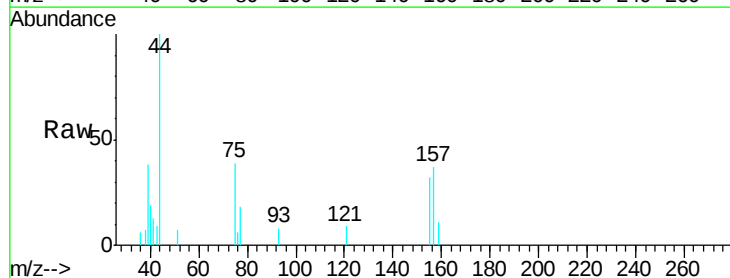
MMDadoda

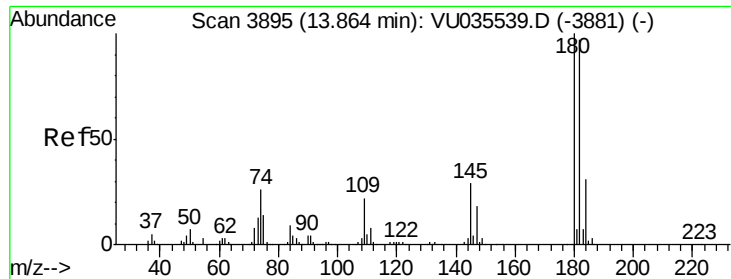
10/30/2019 10:39:14 AM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.413 ug/l
 RT: 13.03 min Scan# 3636
 Delta R.T. 0.01 min
 Lab File: VU035544.D
 Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1034		
155	94.6	71.3	106.9	
157	106.8	91.2	136.8	



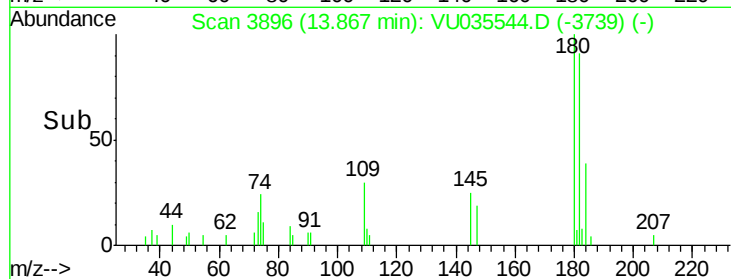
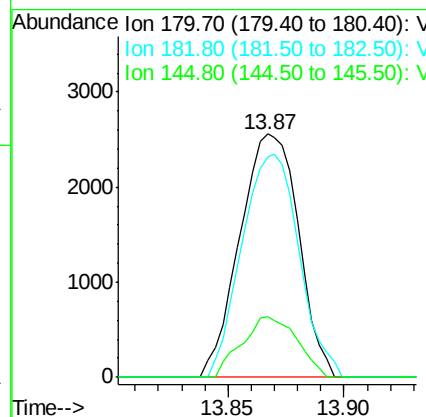
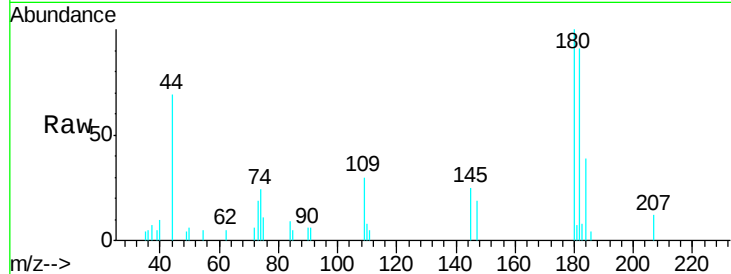


#87
1,2,4-Trichlorobenzene
Concen: 0.318 ug/l
RT: 13.87 min Scan# 3896
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

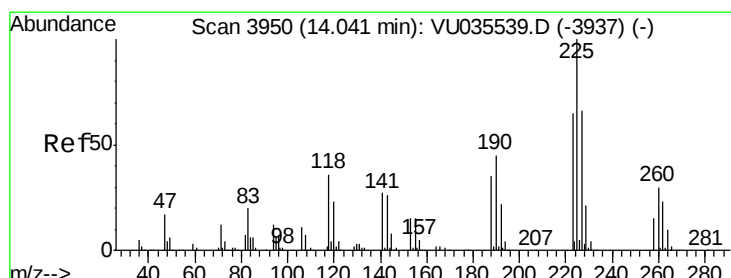
Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.4	77.4	116.0
145	23.4	22.6	33.8

Manual Integrations
APPROVED



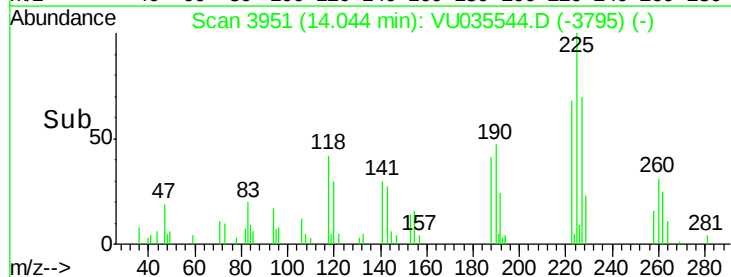
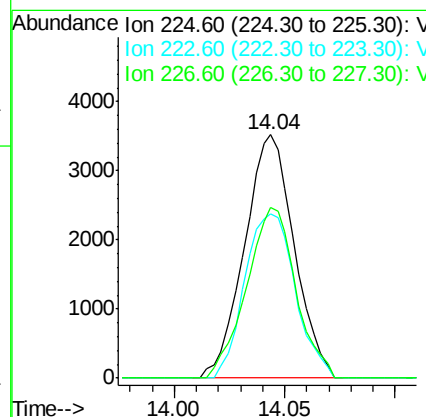
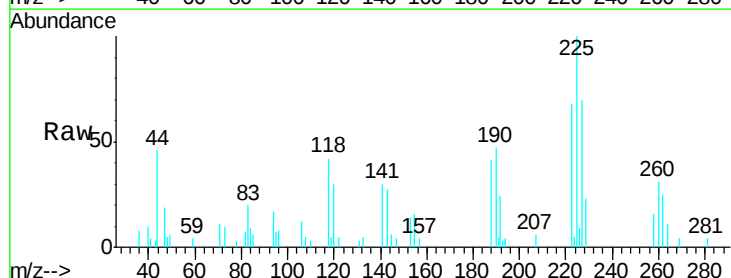
MMDadoda

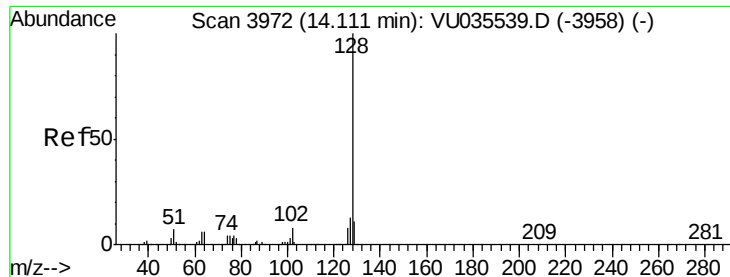
10/30/2019 10:39:14 AM



#88
Hexachlorobutadiene
Concen: 0.376 ug/l
RT: 14.04 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	68.8	50.7	76.1
227	69.5	52.2	78.4



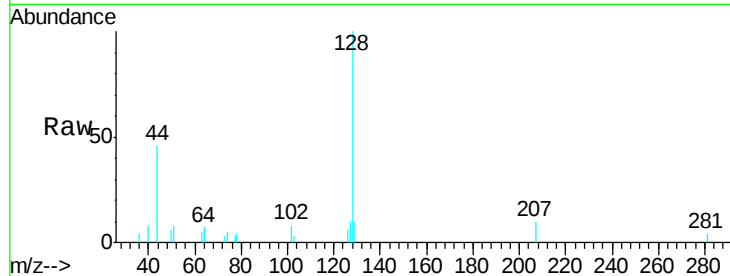


#89
Naphthalene
Concen: 0.303 ug/l
RT: 14.11 min Scan# 3973
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

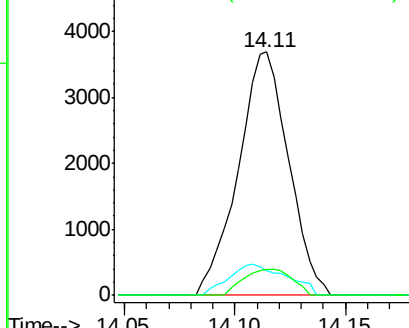
Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tgt Ion:	128	Resp:	5841
Ion Ratio	Lower	Upper	
128	100		
127	14.5	10.3	15.5
129	10.2	8.6	13.0

Manual Integrations
APPROVED

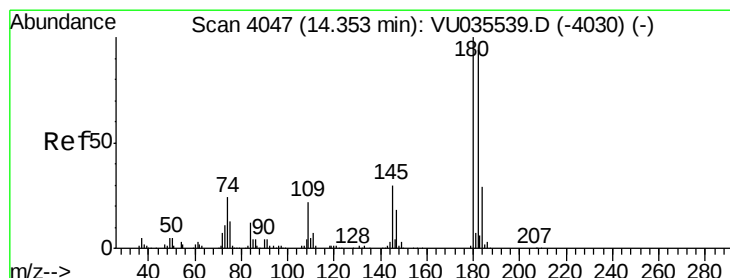
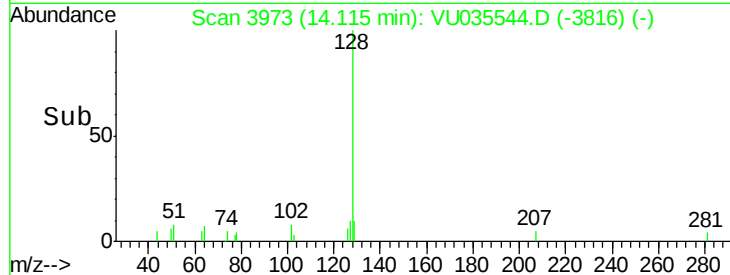


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



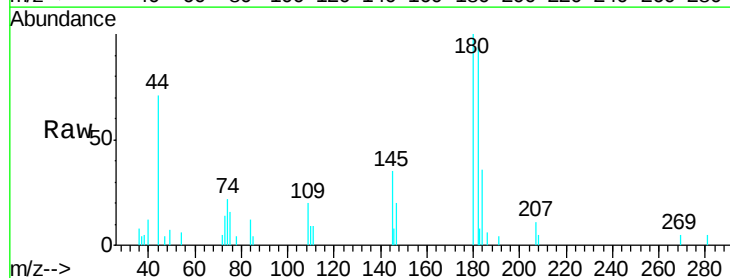
MMDadoda

10/30/2019 10:39:14 AM



#90
1,2,3-Trichlorobenzene
Concen: 0.323 ug/l
RT: 14.36 min Scan# 4048
Delta R.T. 0.00 min
Lab File: VU035544.D
Acq: 29 Oct 2019 17:59

Tgt Ion:	180	Resp:	4665
Ion Ratio	Lower	Upper	
180	100		
182	93.1	75.8	113.8
145	30.4	23.7	35.5



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

