

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100418\
 Data File : VU027396.D
 Acq On : 04 Oct 2018 10:26
 Operator : MD/SY
 Sample : VU1004MBSD02
 Misc : 5.00µ/10mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Manual Integrations
 APPROVED

MMDadoda
 10/8/2018 1:52:30 PM

Quant Time: Oct 05 03:52:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 02:04:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	109794	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	191372	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	178971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	90169	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	89870	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	
35) Dibromofluoromethane	4.89	113	63512	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
50) Toluene-d8	7.57	98	238304	48.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.10%	
62) 4-Bromofluorobenzene	10.31	95	86537	47.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	32141	20.305	ug/l	100
3) Chloromethane	1.33	50	39875	18.607	ug/l	98
4) Vinyl Chloride	1.40	62	40453	20.081	ug/l	98
5) Bromomethane	1.62	94	17837	20.463	ug/l	99
6) Chloroethane	1.70	64	22979	18.983	ug/l	100
7) Trichlorofluoromethane	1.89	101	42191	20.641	ug/l	95
8) Diethyl Ether	2.11	74	17703	18.801	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.29	101	22645	19.077	ug/l	99
10) Methyl Iodide	2.41	142	17569	22.425	ug/l	99
11) Tert butyl alcohol	2.83	59	40275	104.319	ug/l	99
12) 1,1-Dichloroethene	2.29	96	21785	18.784	ug/l	96
13) Acrolein	2.20	56	15608	48.179	ug/l	98
14) Allyl chloride	2.59	41	52789	19.168	ug/l	99
15) Acrylonitrile	2.94	53	105637	105.127	ug/l	99
16) Acetone	2.32	43	96894	89.461	ug/l	100
17) Carbon Disulfide	2.48	76	71689	17.139	ug/l	99
18) Methyl Acetate	2.62	43	55267	22.368	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	91737	19.741	ug/l	99
20) Methylene Chloride	2.70	84	29521	19.567	ug/l	99
21) trans-1,2-Dichloroethene	2.98	96	25753	19.779	ug/l	99
22) Diisopropyl ether	3.58	45	113009	20.189	ug/l	96
23) Vinyl Acetate	3.53	43	488132	99.855	ug/l	100
24) 1,1-Dichloroethane	3.45	63	58530	20.340	ug/l	99
25) 2-Butanone	4.26	43	152328	103.137	ug/l	99
26) 2,2-Dichloropropane	4.23	77	46349	19.602	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	29315	19.687	ug/l	100
28) Bromochloromethane	4.55	49	29063	20.934	ug/l	99
29) Tetrahydrofuran	4.64	42	96616	103.799	ug/l	99
30) Chloroform	4.67	83	53096	20.768	ug/l	99
31) Cyclohexane	5.00	56	54442	18.364	ug/l	99
32) 1,1,1-Trichloroethane	4.92	97	43926	20.400	ug/l	99
36) 1,1-Dichloropropene	5.14	75	40026	19.263	ug/l	99
37) Ethyl Acetate	4.39	43	53024	19.745	ug/l	99
38) Carbon Tetrachloride	5.14	117	36769	19.590	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	43106	17.747	ug/l	97
40) Benzene	5.39	78	118610	19.597	ug/l	99
41) Methacrylonitrile	4.55	41	30072	19.812	ug/l	97
42) 1,2-Dichloroethane	5.41	62	45353	20.187	ug/l	100
43) Isopropyl Acetate	5.55	43	84055	20.153	ug/l	98
44) Trichloroethene	6.19	130	25178	18.656	ug/l	97
45) 1,2-Dichloropropane	6.43	63	34343	19.672	ug/l	99
46) Dibromomethane	6.56	93	20212	20.499	ug/l	98
47) Bromodichloromethane	6.76	83	40515	19.803	ug/l	99
48) Methyl methacrylate	6.62	41	41310	19.917	ug/l	99
49) 1,4-Dioxane	6.61	88	16992	476.153	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	278163	102.635	ug/l	99
52) Toluene	7.64	92	69310	19.347	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	46458	19.367	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	50486	19.578	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	28131	19.805	ug/l	99
56) Ethyl methacrylate	8.02	69	45274	18.160	ug/l	99
57) 1,3-Dichloropropane	8.24	76	54192	19.653	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.13	63	141229	99.665	ug/l	98
59) 2-Hexanone	8.36	43	215387	102.449	ug/l	99
60) Dibromochloromethane	8.48	129	28281	19.852	ug/l	100
61) 1,2-Dibromoethane	8.59	107	28938	19.162	ug/l	97
64) Tetrachloroethene	8.23	164	21245	19.069	ug/l	98
65) Chlorobenzene	9.12	112	72452	19.232	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	25286	19.443	ug/l	99
67) Ethyl Benzene	9.25	91	126980	19.025	ug/l	98
68) m/p-Xylenes	9.38	106	95324	39.045	ug/l	100
69) o-Xylene	9.78	106	45216	19.489	ug/l	99
70) Styrene	9.79	104	74702	18.732	ug/l	99
71) Bromoform	9.96	173	19859	18.980	ug/l #	99
73) Isopropylbenzene	10.17	105	122933	18.772	ug/l	99
74) N-amyl acetate	10.02	43	69934	18.654	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	49213	19.138	ug/l	98
76) 1,2,3-Trichloropropane	10.49	75	43383m	18.560	ug/l	
77) Bromobenzene	10.45	156	29346	19.281	ug/l	99
78) n-propylbenzene	10.59	91	153523	19.509	ug/l	99
79) 2-Chlorotoluene	10.66	91	90366	19.019	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	104357	19.573	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	16101m	18.028	ug/l	
82) 4-Chlorotoluene	10.77	91	105891	19.639	ug/l	100
83) tert-Butylbenzene	11.10	119	97143	18.847	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	107270	19.696	ug/l	100
85) sec-Butylbenzene	11.32	105	126331	19.452	ug/l	99
86) p-Isopropyltoluene	11.48	119	108606	19.532	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	55687	19.323	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	56306	19.119	ug/l	97
89) n-Butylbenzene	11.89	91	105123	19.070	ug/l	98
90) Hexachloroethane	12.15	117	19573	18.674	ug/l	97
91) 1,2-Dichlorobenzene	11.88	146	54740	19.513	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.66	75	11226	19.698	ug/l	99

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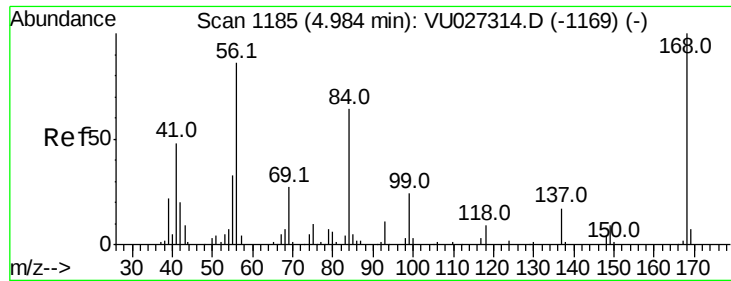
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	36882	20.319	ug/l	99
94) Hexachlorobutadiene	13.69	225	18570	20.249	ug/l	98
95) Naphthalene	13.74	128	117709	18.354	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	38665	20.446	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion:168 Resp: 109794

Ion Ratio Lower Upper

168 100

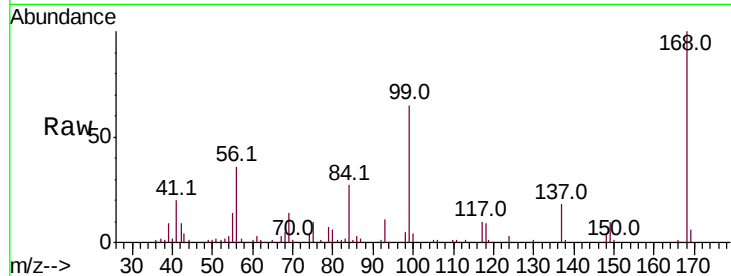
99 63.5 50.8 76.2

Manual Integrations

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10/8/2018 1:52:30 PM



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)

4.99

50000

40000

30000

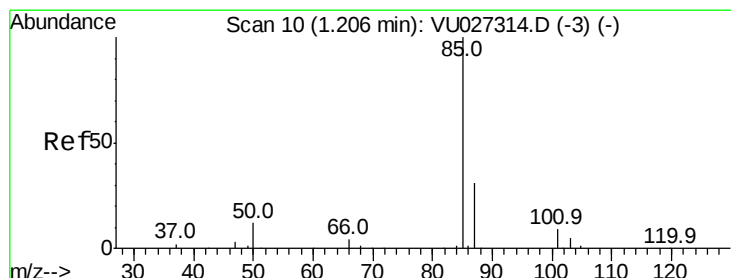
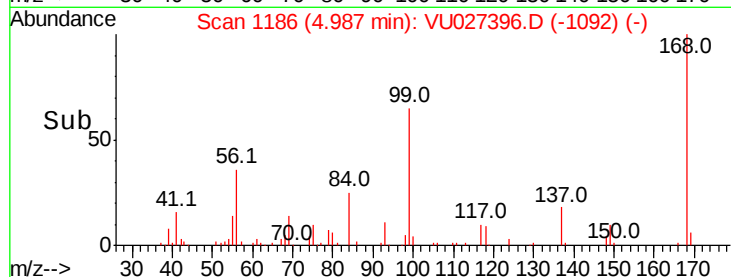
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#2

Dichlorodifluoromethane

Concen: 20.305 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU027396.D

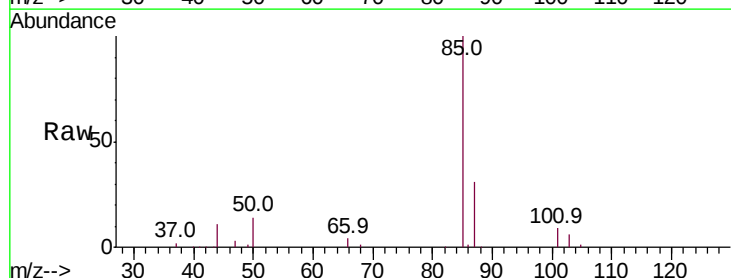
Acq: 04 Oct 2018 10:26

Tgt Ion: 85 Resp: 32141

Ion Ratio Lower Upper

85 100

87 31.4 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VU027314.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU027314.D (-3) (-)

1.21

30000

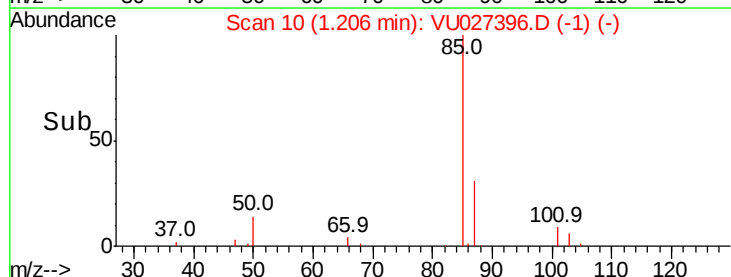
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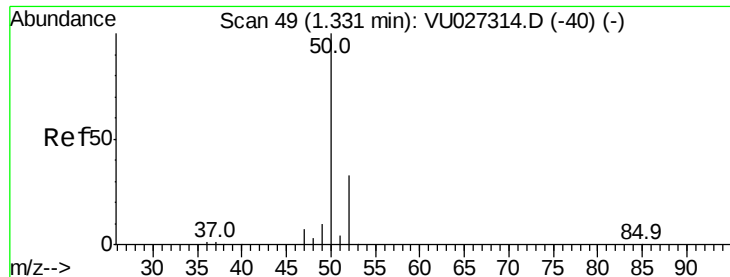
10000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 18.607 ug/l

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 50 Resp: 39875

Ion Ratio Lower Upper

50 100

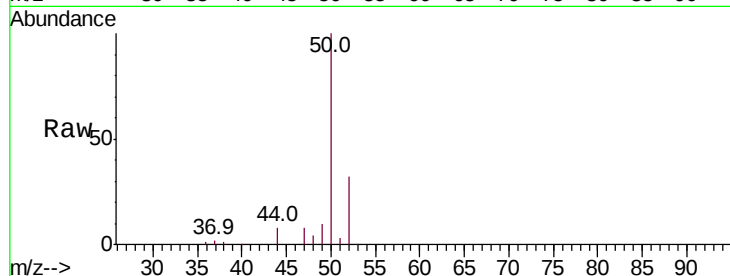
52 32.2 26.5 39.7

Manual Integrations

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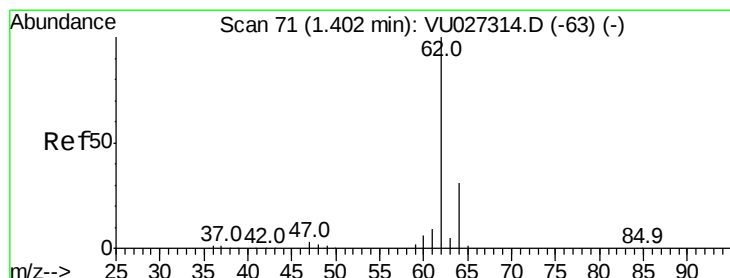
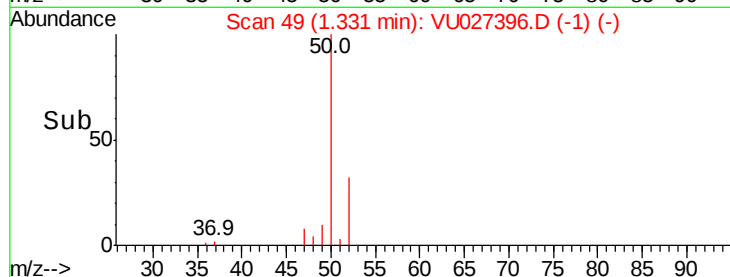
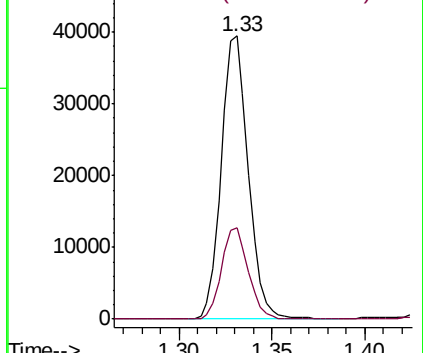
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 20.081 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027396.D

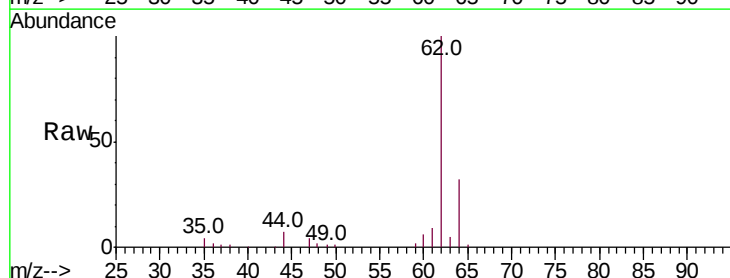
Acq: 04 Oct 2018 10:26

Tgt Ion: 62 Resp: 40453

Ion Ratio Lower Upper

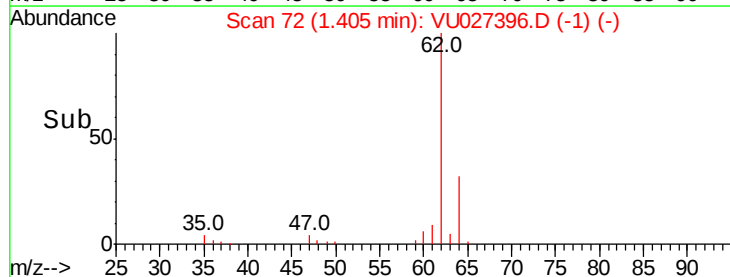
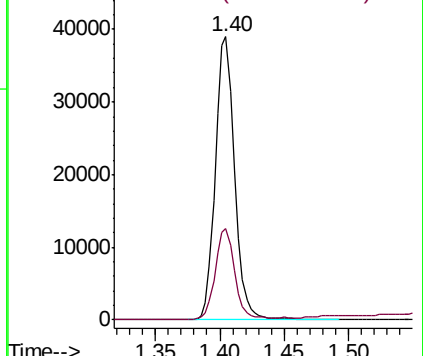
62 100

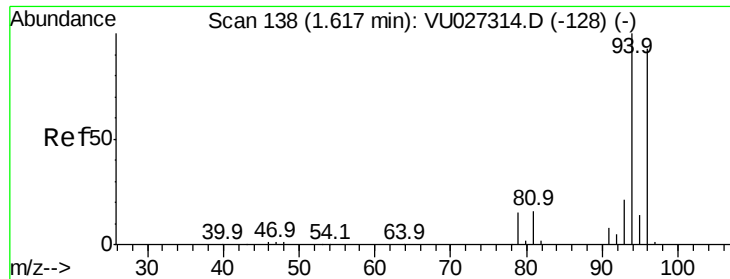
64 32.3 24.9 37.3



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 20.463 ug/l

RT: 1.62 min Scan# 140

Delta R.T. 0.01 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 94 Resp: 17837

Ion Ratio Lower Upper

94 100

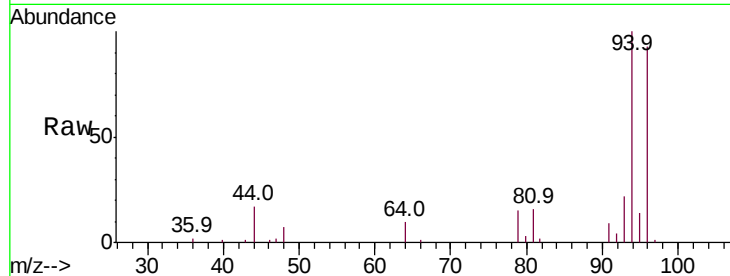
96 92.6 74.6 111.8

Manual Integrations

APPROVED

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10/8/2018 1:52:30 PM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

15000

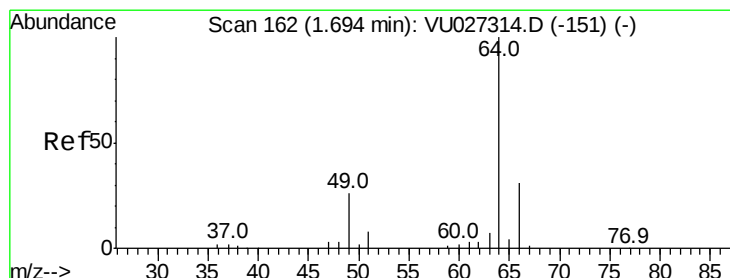
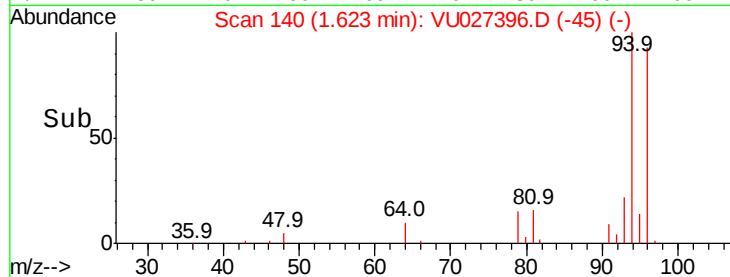
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5000

0

1.60 1.65

Time-->



#6

Chloroethane

Concen: 18.983 ug/l

RT: 1.70 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU027396.D

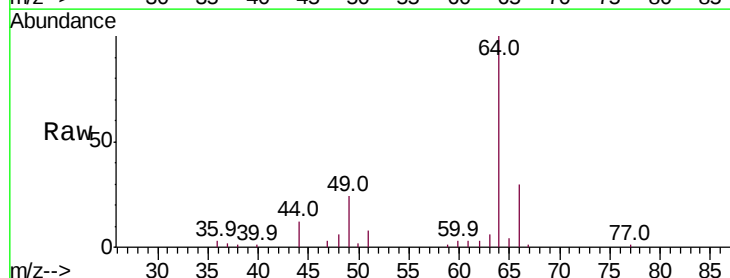
Acq: 04 Oct 2018 10:26

Tgt Ion: 64 Resp: 22979

Ion Ratio Lower Upper

64 100

66 30.8 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

20000

15000

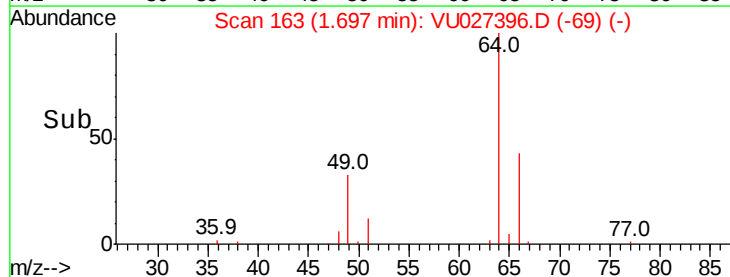
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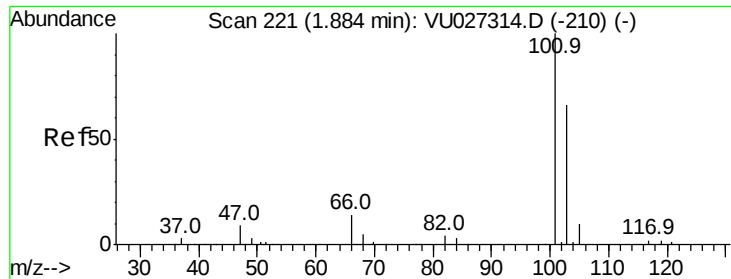
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0

1.65 1.70 1.75 1.80

Time-->





#7

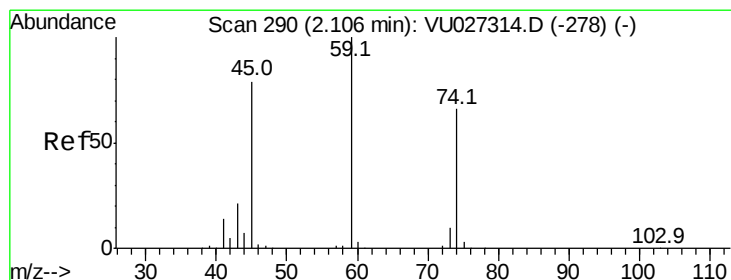
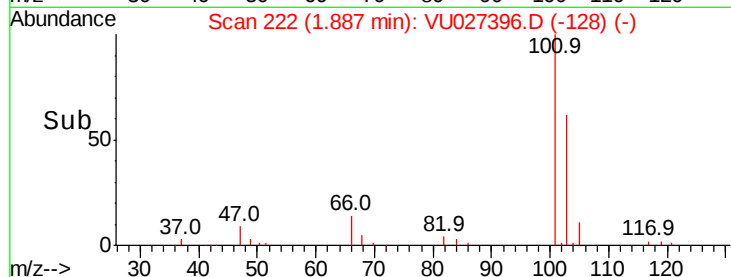
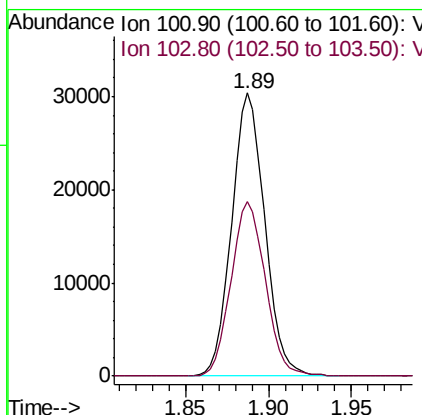
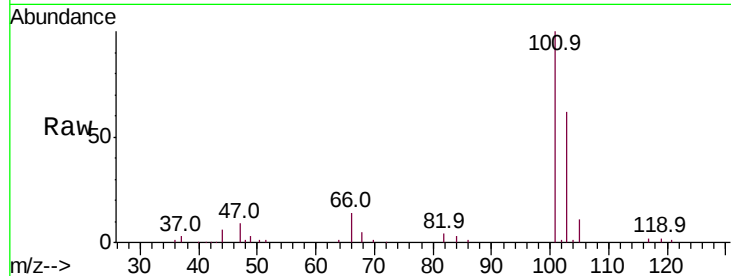
Trichlorofluoromethane
Concen: 20.641 ug/l
RT: 1.89 min Scan# 222
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampled :
VU1004MBSD02

Tot Ion:101 Resp: 42191
Ion Ratio Lower Upper
101 100
103 61.7 52.6 78.8

Manual Integrations
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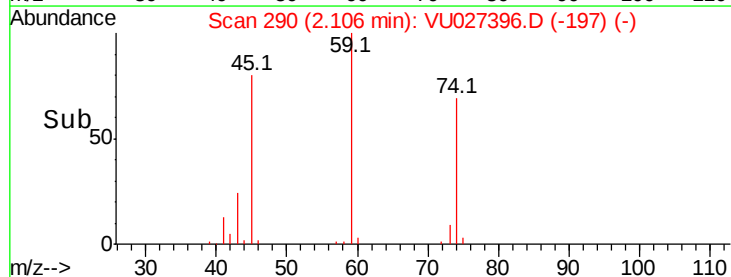
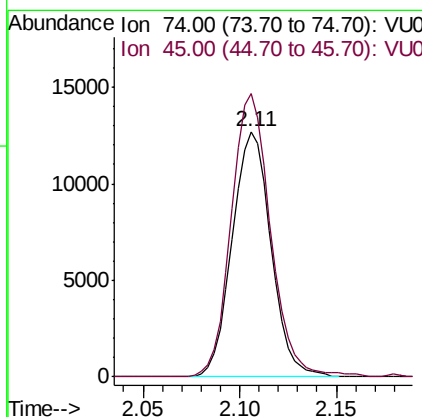
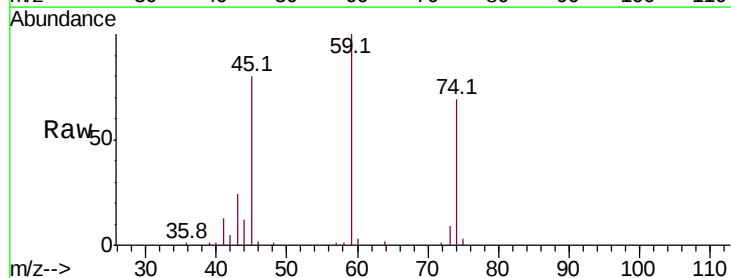
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10/8/2018 1:52:30 PM

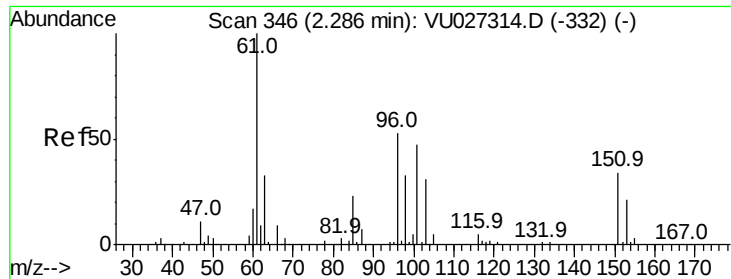


#8

Diethyl Ether
Concen: 18.801 ug/l
RT: 2.11 min Scan# 290
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion: 74 Resp: 17703
Ion Ratio Lower Upper
74 100
45 117.5 60.4 181.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.077 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

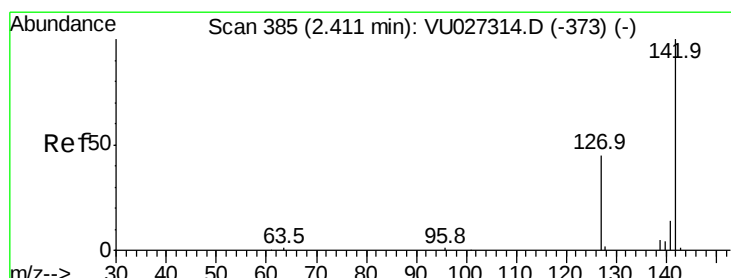
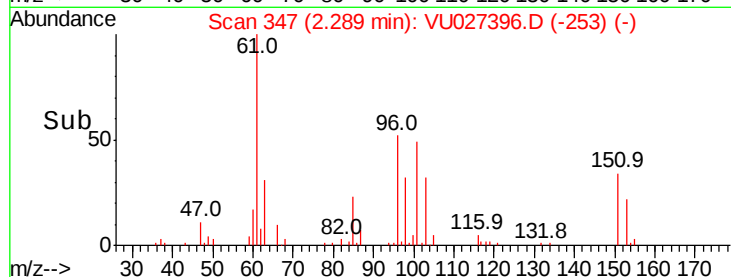
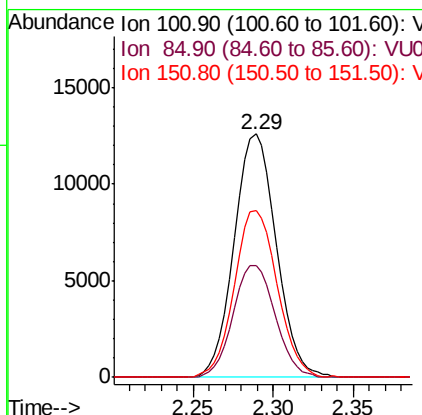
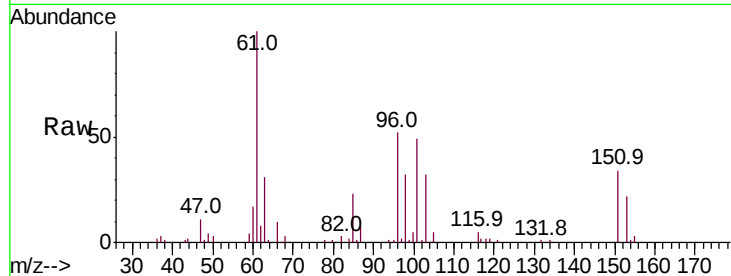
ClientSampleId :

VU1004MBSD02

Tot Ion:	101	Resp:	22645
Ion Ratio	Lower	Upper	
101	100		
85	45.9	37.5	56.3
151	69.6	55.6	83.4

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#10

Methyl Iodide

Concen: 22.425 ug/l

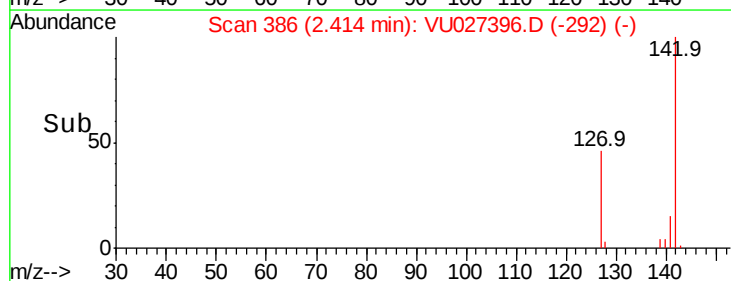
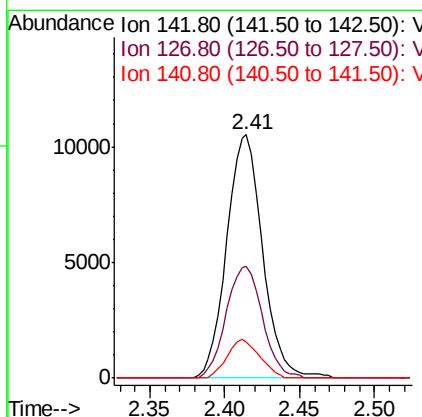
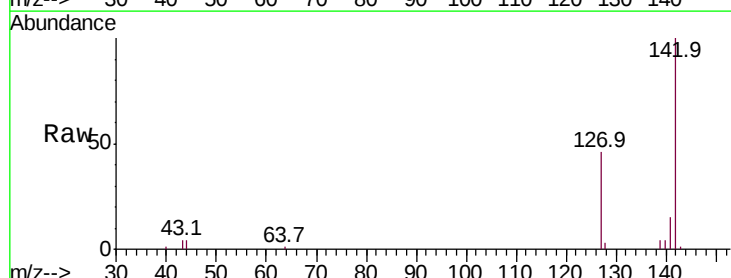
RT: 2.41 min Scan# 386

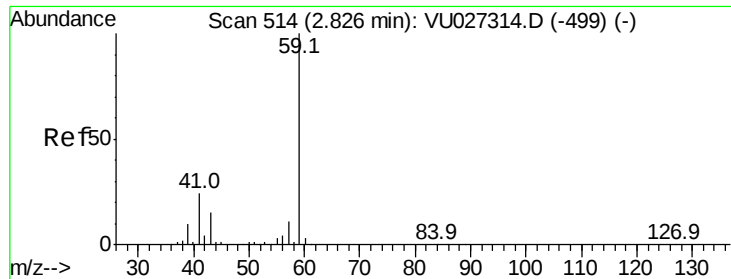
Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion:	142	Resp:	17569
Ion Ratio	Lower	Upper	
142	100		
127	46.5	36.3	54.5
141	14.3	11.6	17.4





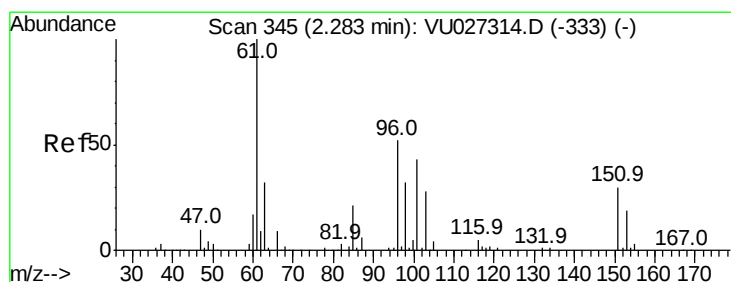
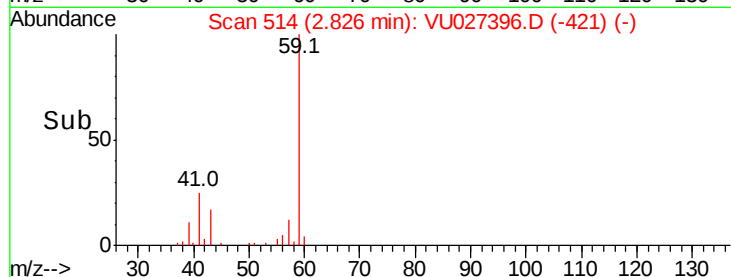
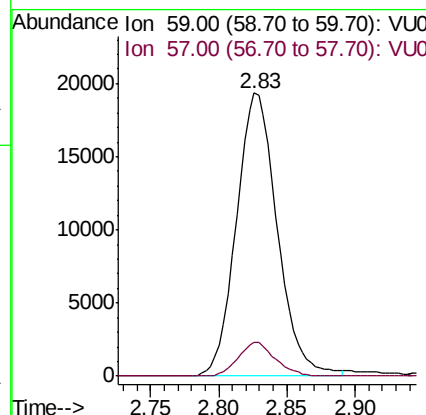
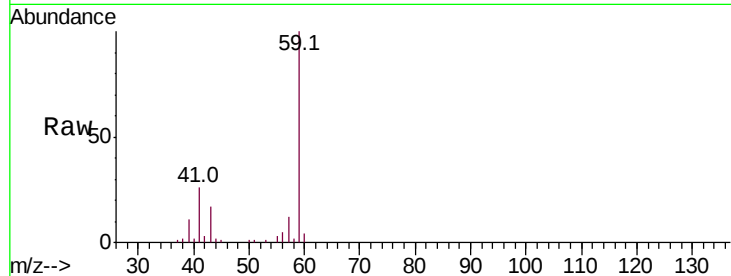
#11
Tert butyl alcohol
Concen: 104.319 ug/l
RT: 2.83 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.4	12.6

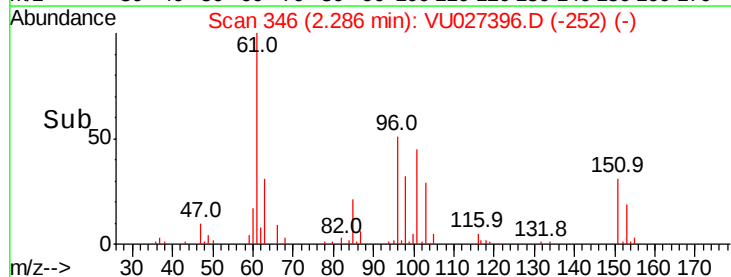
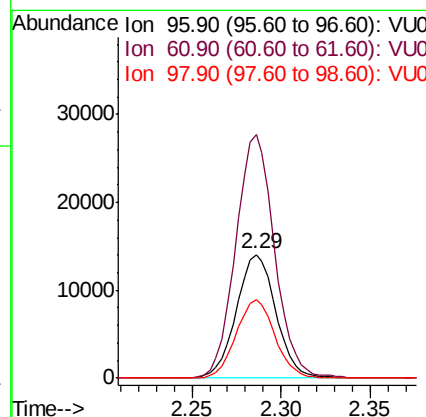
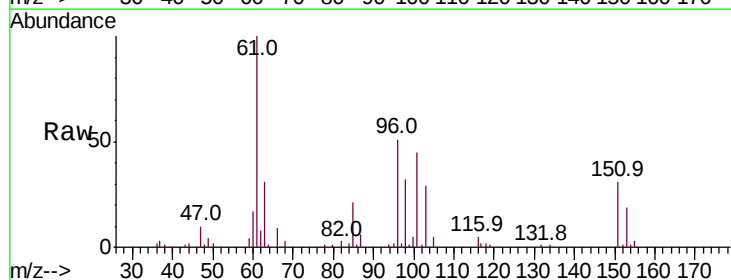
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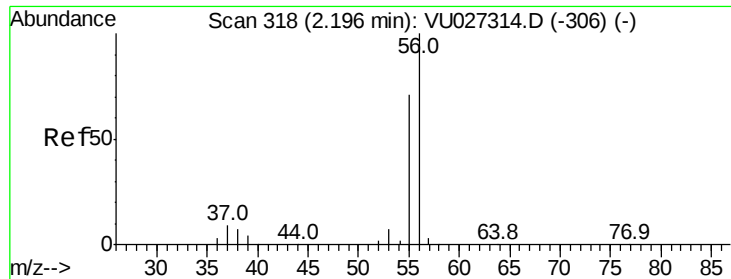
MMDadoda
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#12
1,1-Dichloroethene
Concen: 18.784 ug/l
RT: 2.29 min Scan# 346
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	197.1	153.0	229.6
98	63.2	49.3	73.9





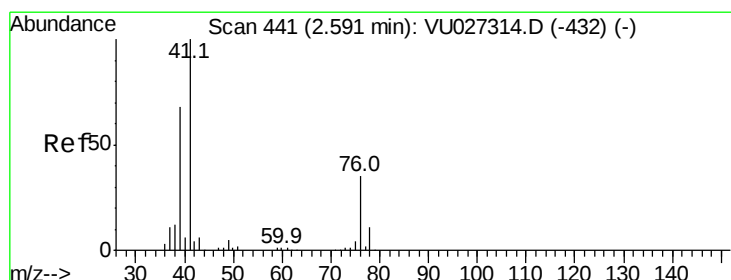
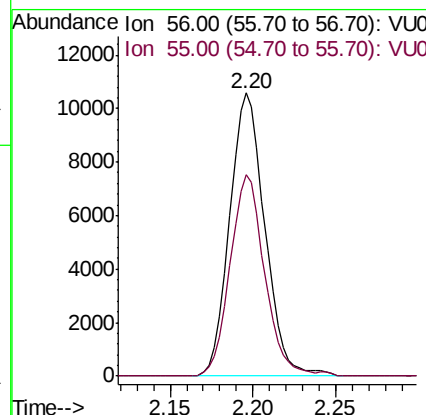
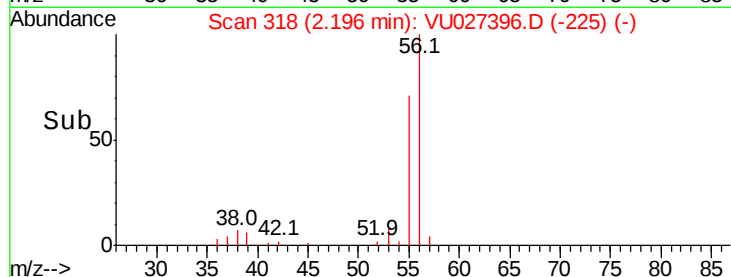
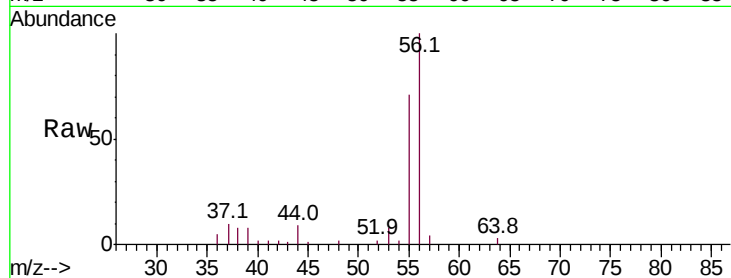
#13
Acrolein
Concen: 48.179 ug/l
RT: 2.20 min Scan# 318
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion: 56 Resp: 15608
Ion Ratio Lower Upper
56 100
55 70.2 57.7 86.5

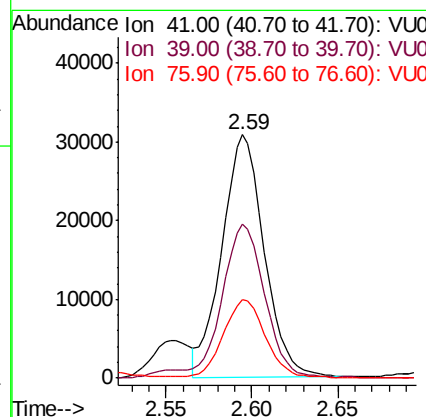
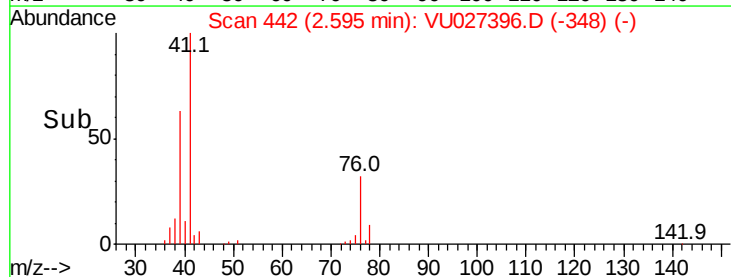
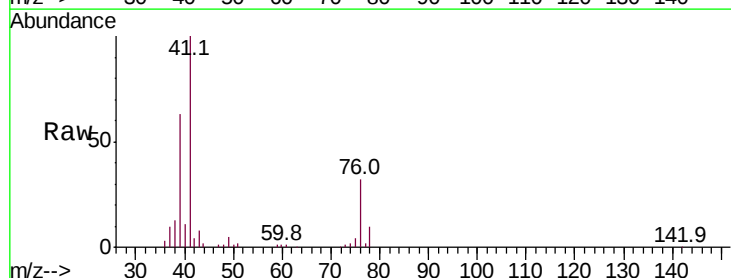
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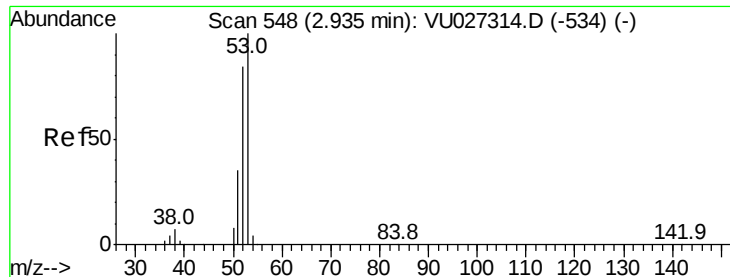
MMDadoda
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#14
Allyl chloride
Concen: 19.168 ug/l
RT: 2.59 min Scan# 442
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion: 41 Resp: 52789
Ion Ratio Lower Upper
41 100
39 66.3 51.8 77.8
76 32.6 25.9 38.9





#15

Acrylonitrile

Concen: 105.127 ug/l

RT: 2.94 min Scan# 548

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

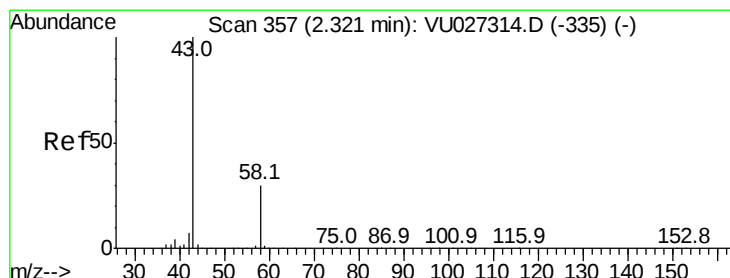
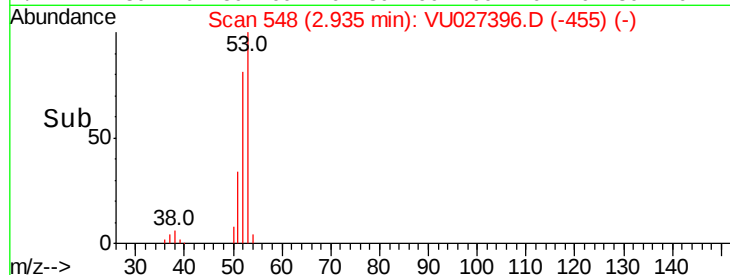
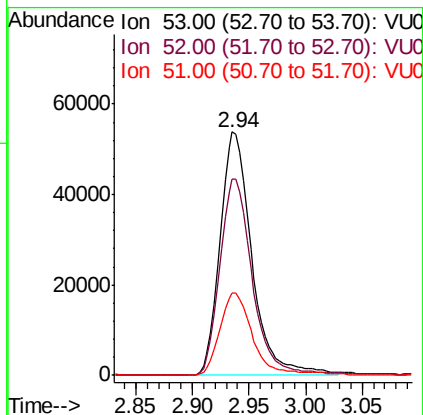
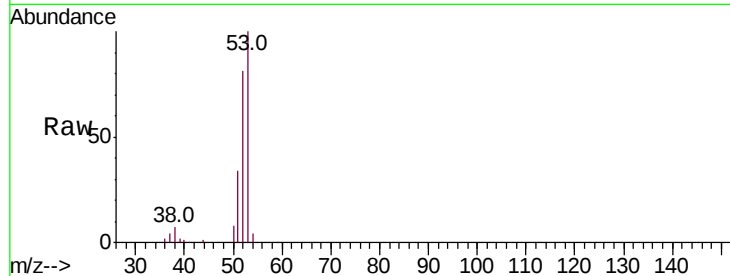
ClientSampleId :

VU1004MBSD02

Tot Ion:	53	Resp:	105637
Ion Ratio	Lower	Upper	
53	100		
52	83.1	66.5	99.7
51	35.5	27.6	41.4

Manual Integrations
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#16

Acetone

Concen: 89.461 ug/l

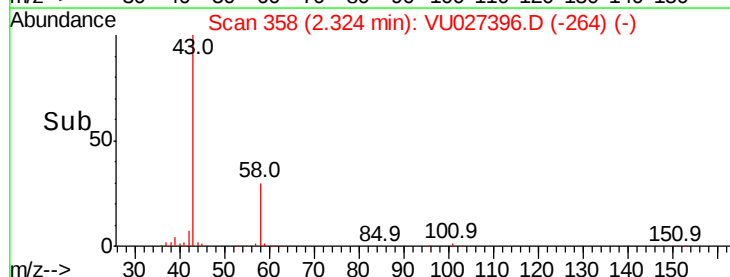
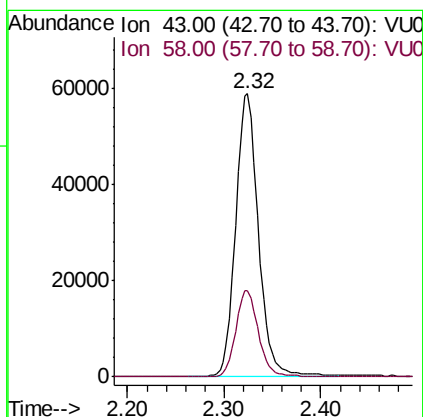
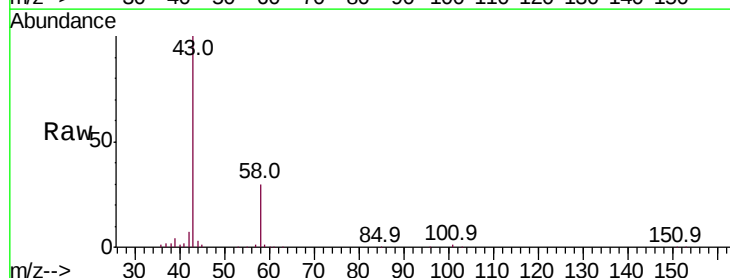
RT: 2.32 min Scan# 358

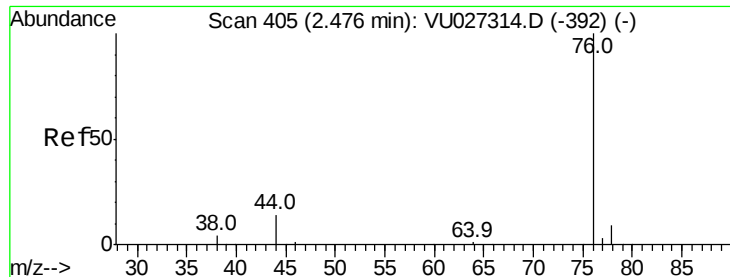
Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion:	43	Resp:	96894
Ion Ratio	Lower	Upper	
43	100		
58	30.3	24.2	36.4





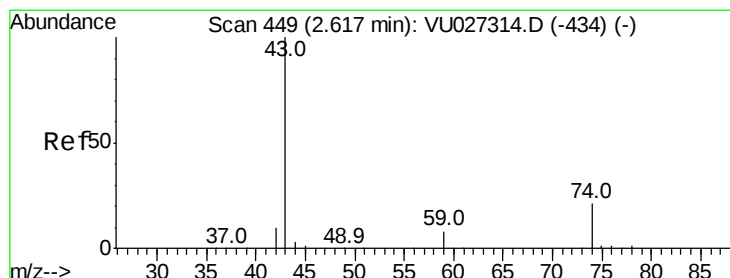
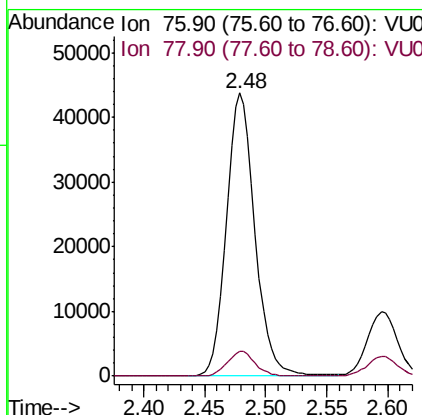
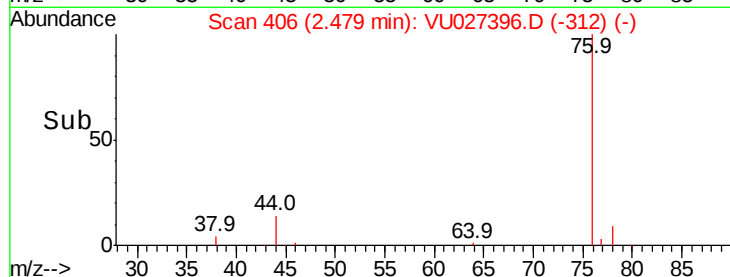
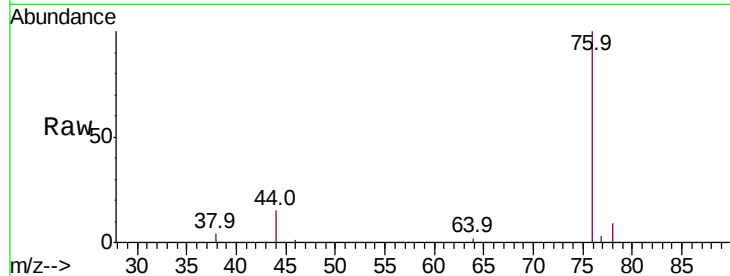
#17
Carbon Disulfide
Concen: 17.139 ug/l
RT: 2.48 min Scan# 406
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleID :
VU1004MBSD02

Tot Ion: 76 Resp: 71689
Ion Ratio Lower Upper
76 100
78 8.7 7.3 10.9

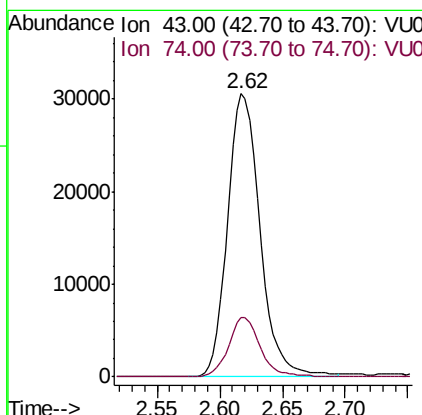
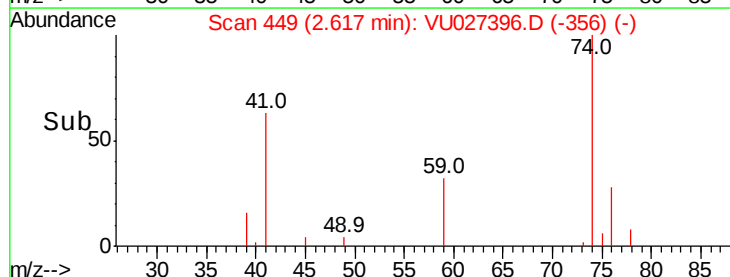
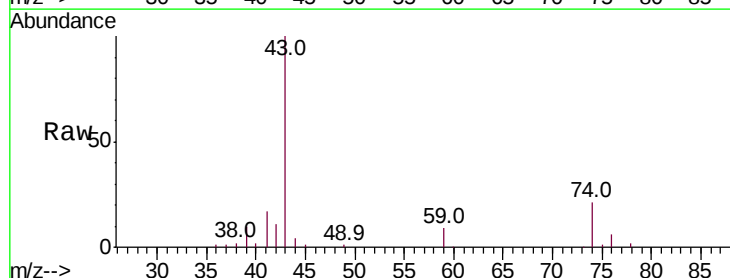
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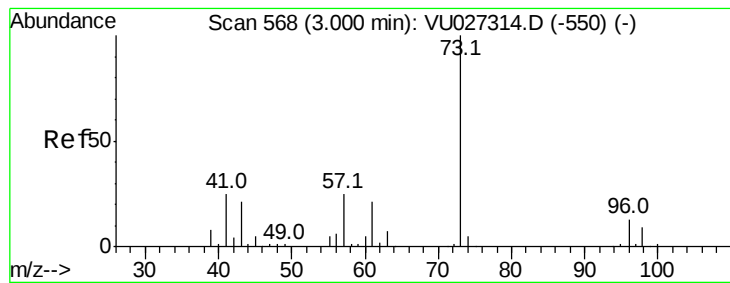
MMDadoda
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#18
Methyl Acetate
Concen: 22.368 ug/l
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion: 43 Resp: 55267
Ion Ratio Lower Upper
43 100
74 20.3 16.5 24.7





#19

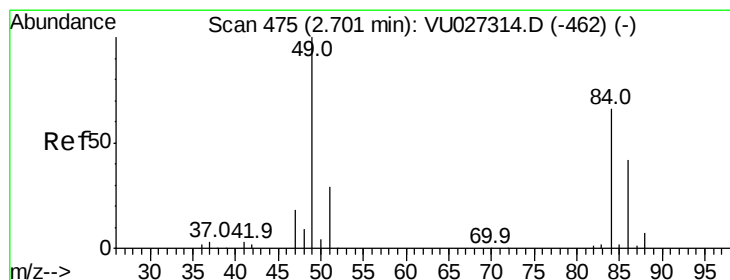
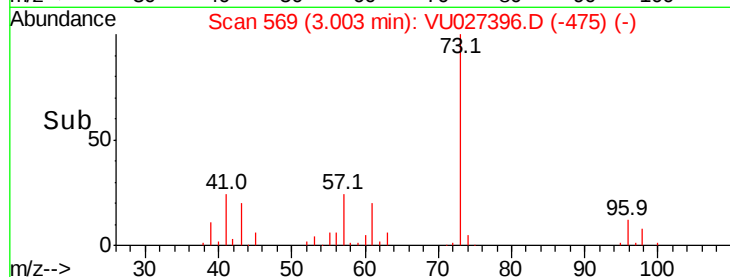
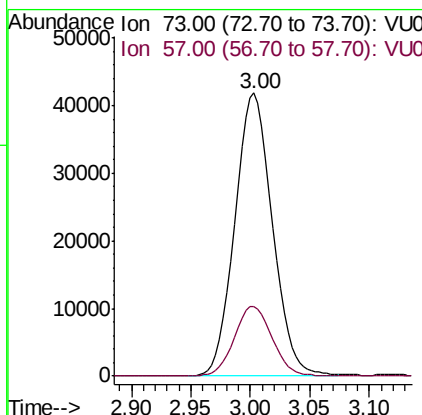
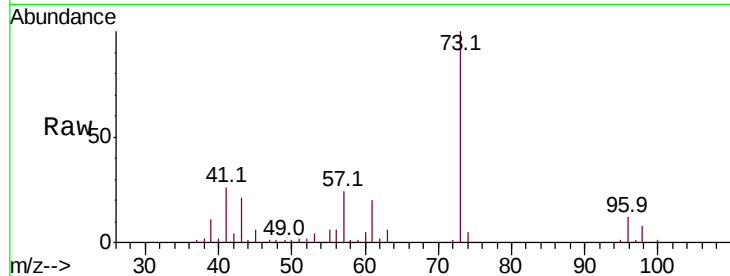
Methyl tert-butyl Ether
 Concen: 19.741 ug/l
 RT: 3.00 min Scan# 569
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Tot Ion: 73 Resp: 91737
 Ion Ratio Lower Upper
 73 100
 57 24.4 20.0 30.0

Manual Integrations
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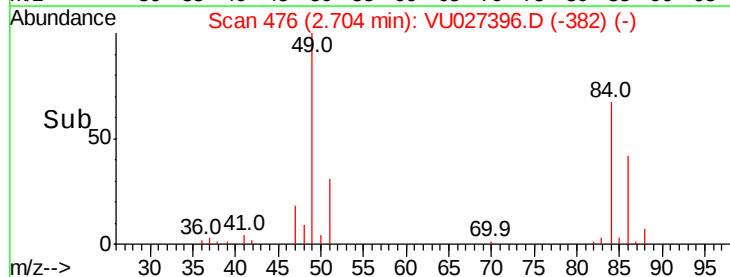
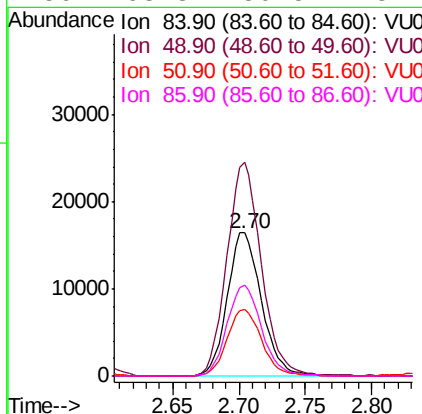
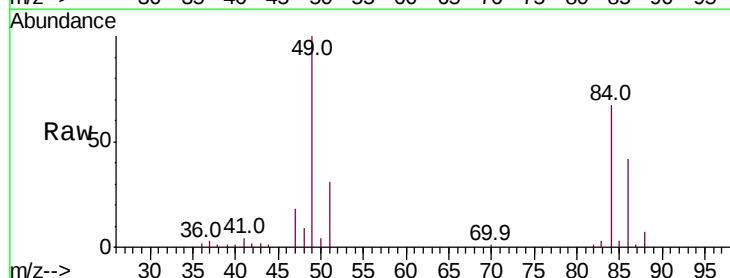
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 10/8/2018 1:52:30 PM

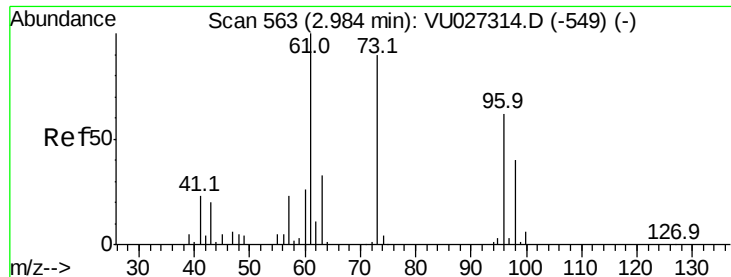


#20

Methylene Chloride
 Concen: 19.567 ug/l
 RT: 2.70 min Scan# 476
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion: 84 Resp: 29521
 Ion Ratio Lower Upper
 84 100
 49 149.0 120.5 180.7
 51 46.2 35.1 52.7
 86 63.3 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 19.779 ug/l

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 96 Resp: 25753

Ion Ratio Lower Upper

96 100

61 161.1 129.4 194.2

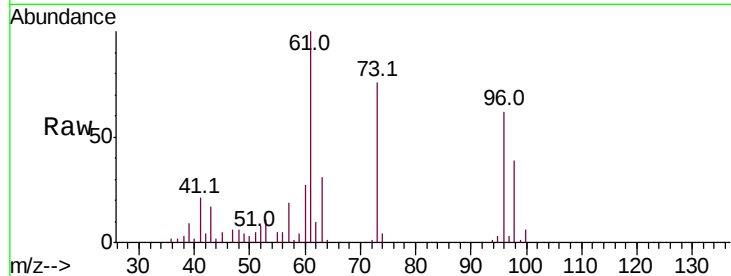
98 63.2 51.2 76.8

Manual Integrations

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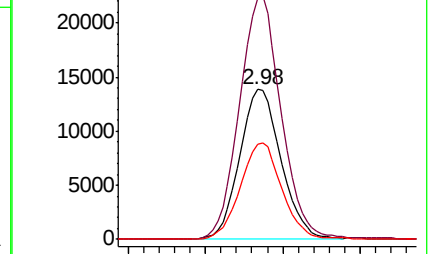
10/8/2018 1:52:30 PM



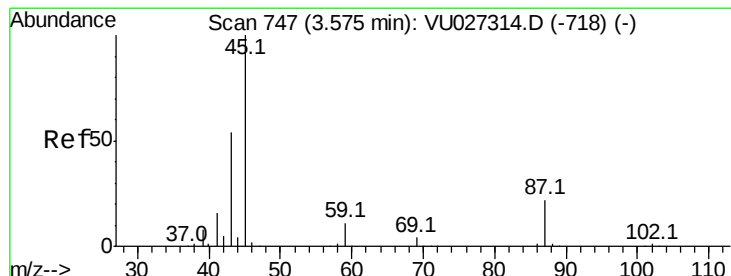
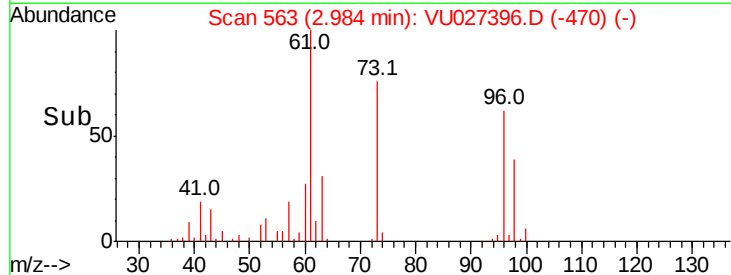
Abundance Ion 95.90 (95.60 to 96.60): VU027314.D (-549) (-)

Ion 60.90 (60.60 to 61.60): VU027314.D (-549) (-)

Ion 97.90 (97.60 to 98.60): VU027314.D (-549) (-)



Time-->



#22

Diisopropyl ether

Concen: 20.189 ug/l

RT: 3.58 min Scan# 747

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion: 45 Resp: 113009

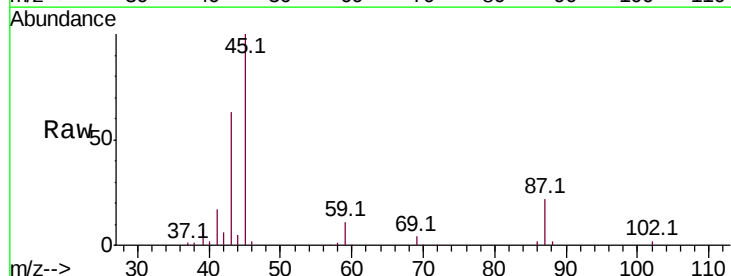
Ion Ratio Lower Upper

45 100

43 58.0 43.4 65.2

87 22.4 17.5 26.3

59 11.2 8.6 13.0

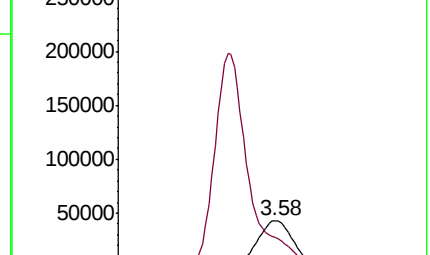


Abundance Ion 45.00 (44.70 to 45.70): VU027314.D (-718) (-)

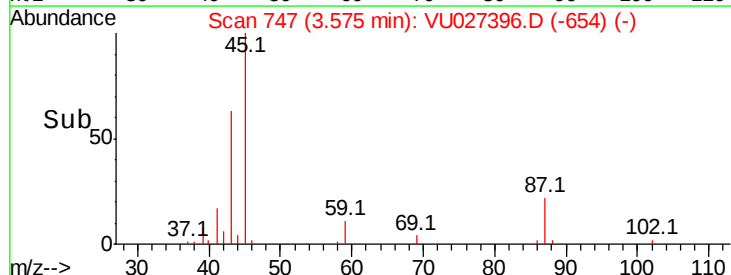
Ion 43.00 (42.70 to 43.70): VU027314.D (-718) (-)

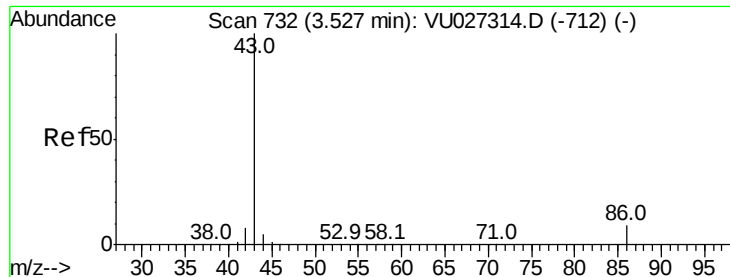
Ion 87.00 (86.70 to 87.70): VU027314.D (-718) (-)

Ion 59.00 (58.70 to 59.70): VU027314.D (-718) (-)



Time-->





#23

Vinyl Acetate

Concen: 99.855 ug/l

RT: 3.53 min Scan# 732

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 43 Resp: 488132

Ion Ratio Lower Upper

43 100

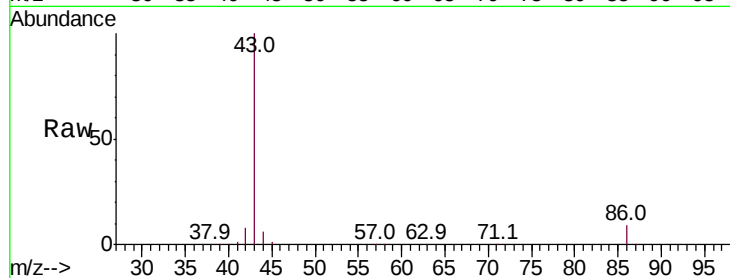
86 8.8 7.0 10.4

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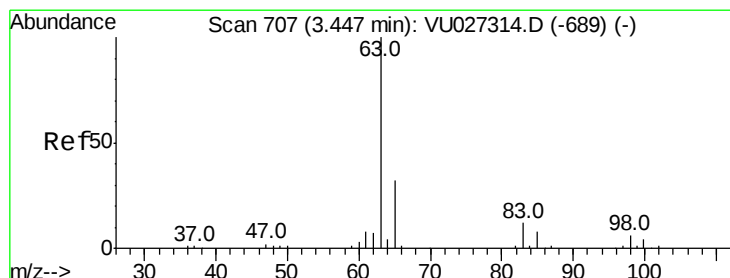
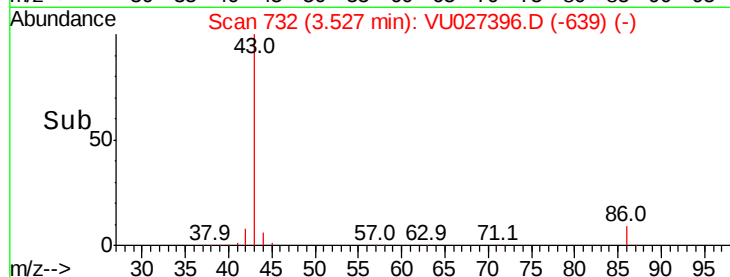
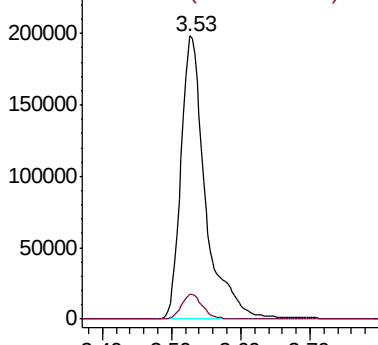
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0



#24

1,1-Dichloroethane

Concen: 20.340 ug/l

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

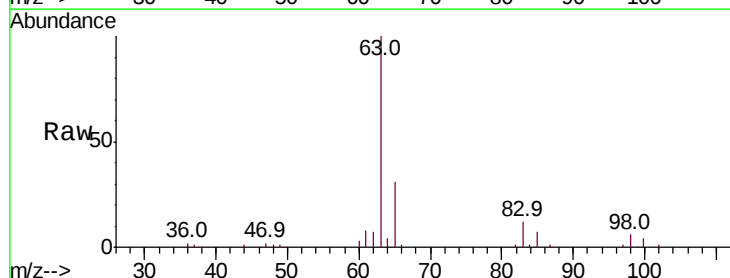
Tgt Ion: 63 Resp: 58530

Ion Ratio Lower Upper

63 100

98 6.4 3.0 9.2

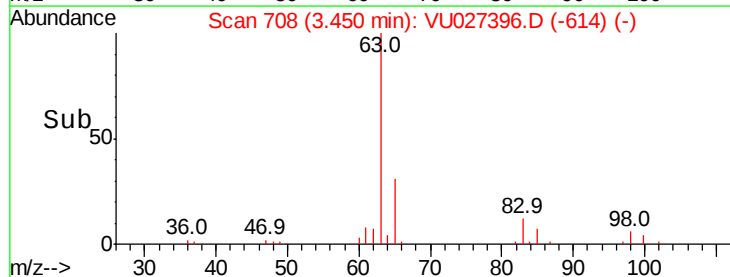
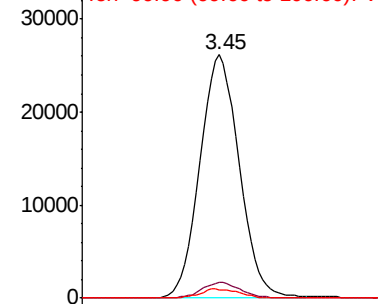
100 3.5 1.8 5.5

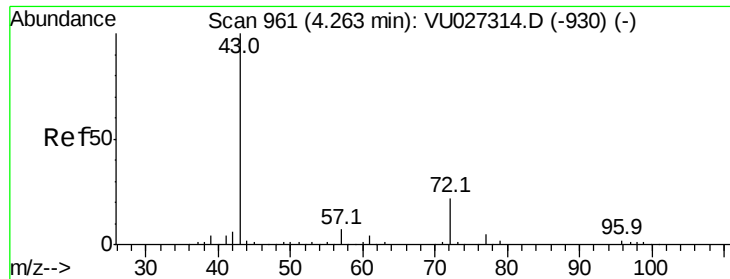


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0





#25

2-Butanone

Concen: 103.137 ug/l

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampled :

VU1004MBSD02

Tot Ion: 43 Resp: 152328

Ion Ratio Lower Upper

43 100

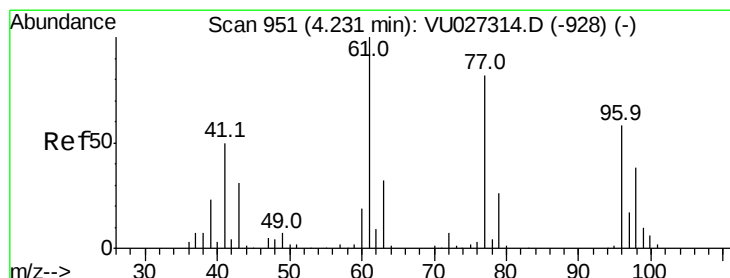
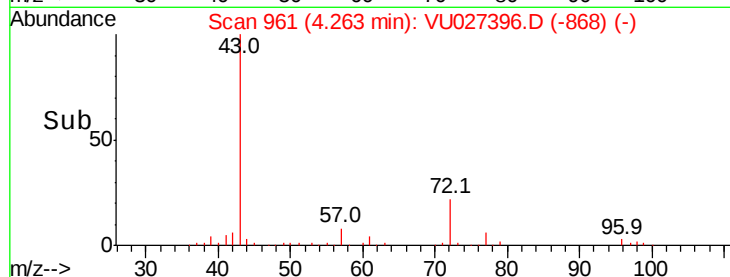
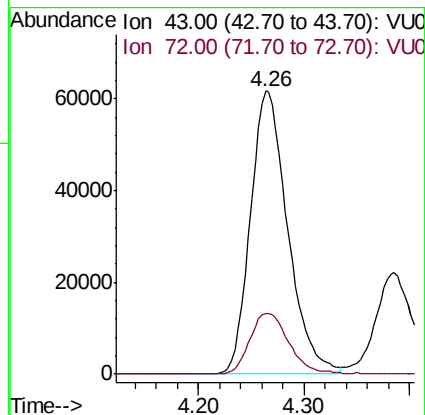
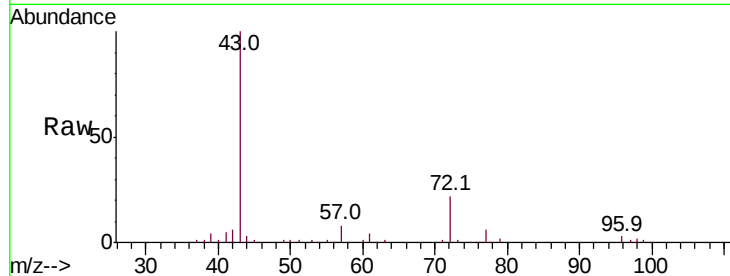
72 21.6 17.8 26.6

Manual Integrations

APPROVED

MMDadoda

10/8/2018 1:52:30 PM



#26

2,2-Dichloropropane

Concen: 19.602 ug/l

RT: 4.23 min Scan# 951

Delta R.T. -0.00 min

Lab File: VU027396.D

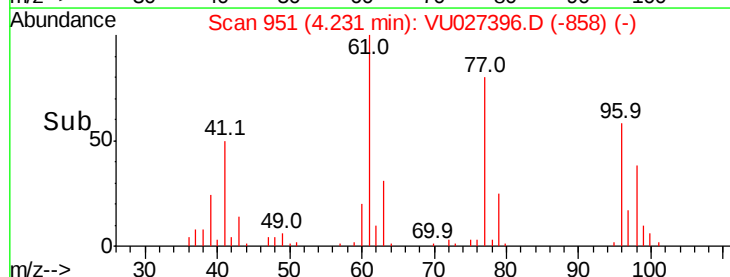
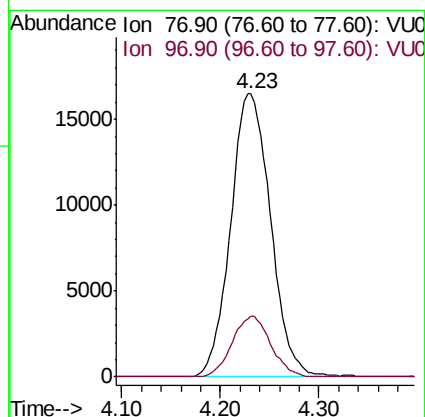
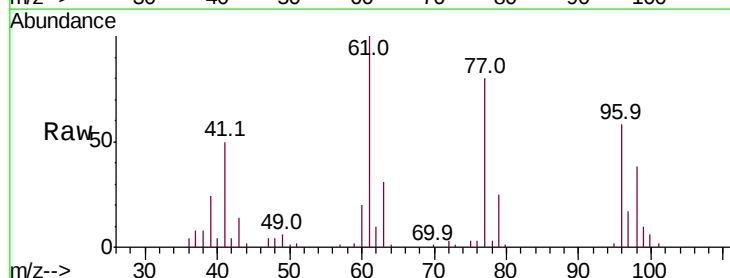
Acq: 04 Oct 2018 10:26

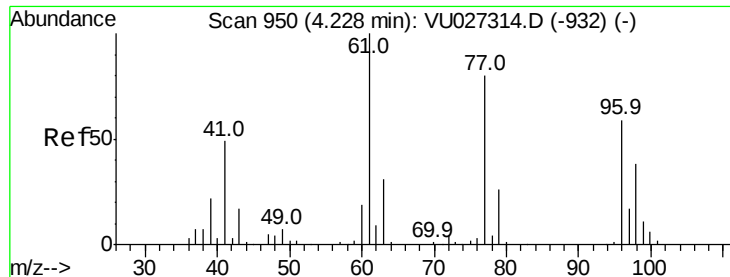
Tgt Ion: 77 Resp: 46349

Ion Ratio Lower Upper

77 100

97 20.7 10.4 31.1





#27

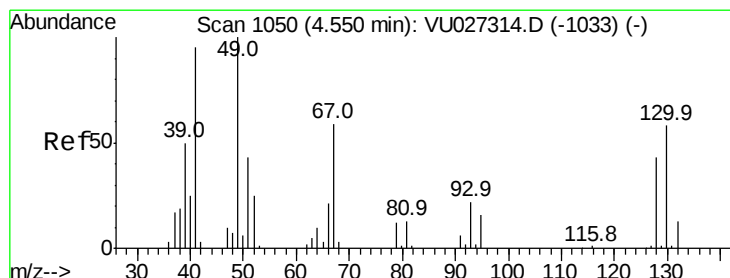
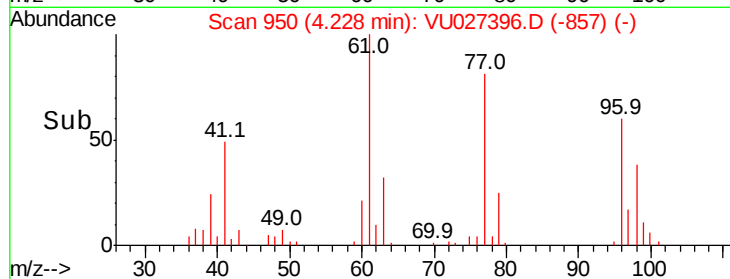
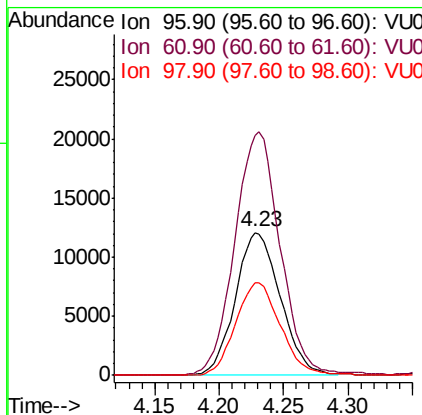
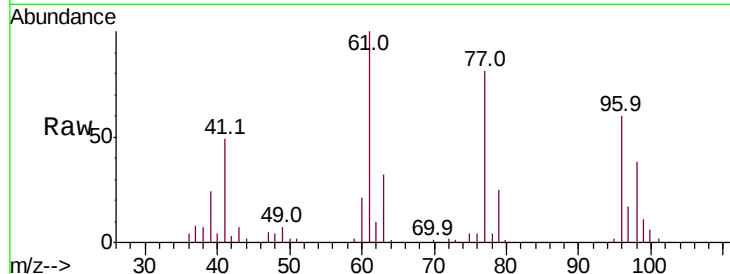
cis-1,2-Dichloroethene
Concen: 19.687 ug/l
RT: 4.23 min Scan# 950
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	171.7	0.0	343.8
98	64.8	0.0	129.0

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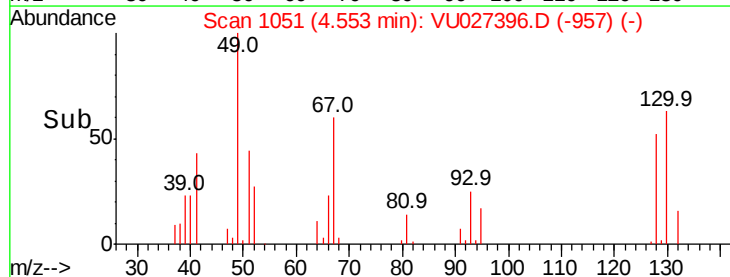
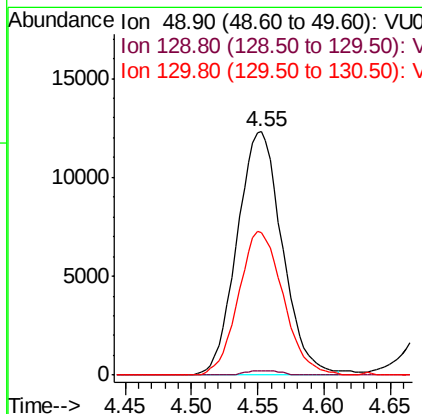
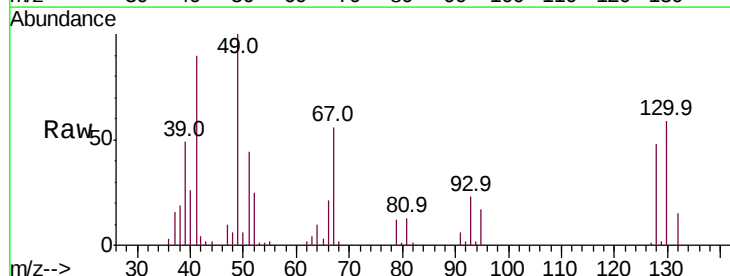
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10/8/2018 1:52:30 PM

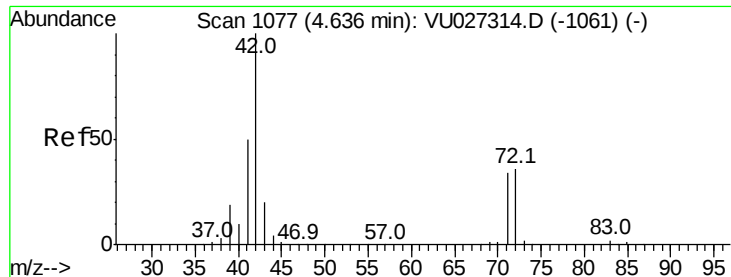


#28

Bromochloromethane
Concen: 20.934 ug/l
RT: 4.55 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.0
130	58.5	46.1	69.1





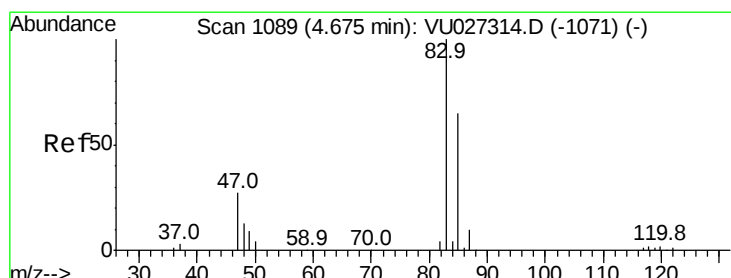
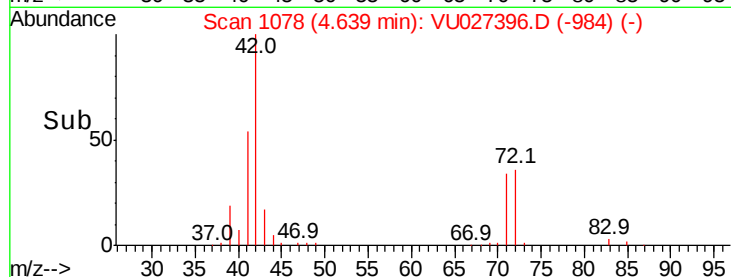
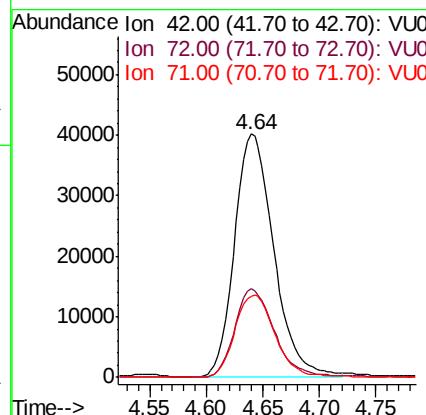
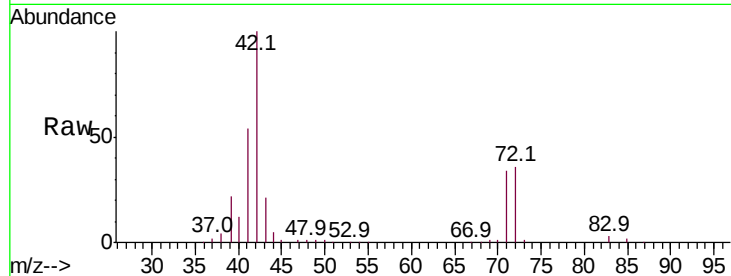
#29
Tetrahydrofuran
Concen: 103.799 ug/l
RT: 4.64 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.9	30.1	45.1
71	34.8	27.7	41.5

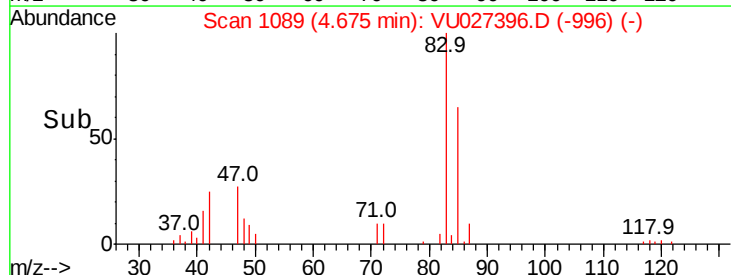
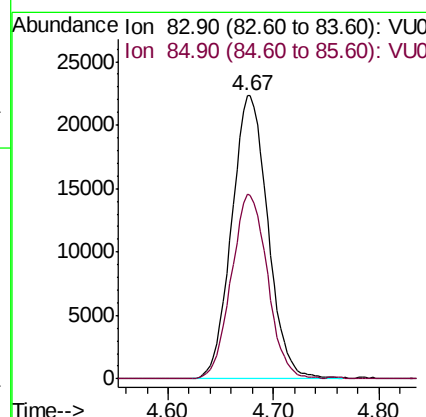
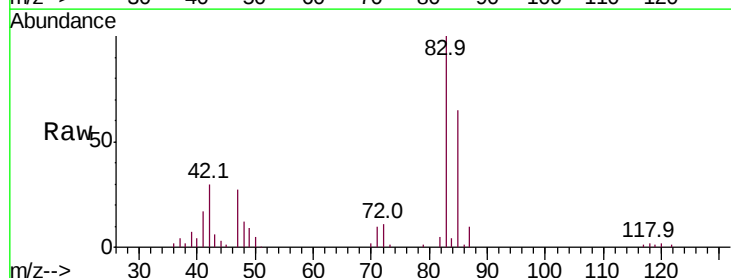
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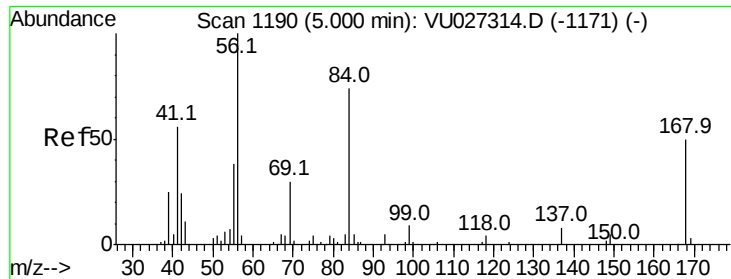
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#30
Chloroform
Concen: 20.768 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.8	77.6





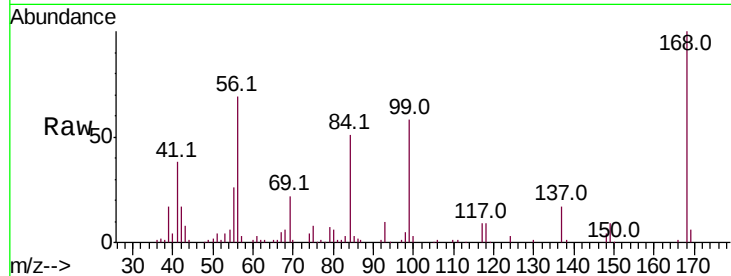
#31
Cyclohexane
Concen: 18.364 ug/l
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

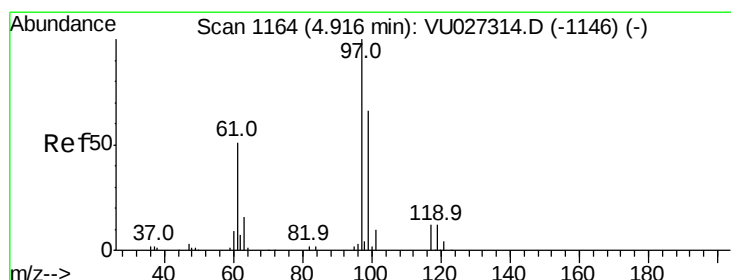
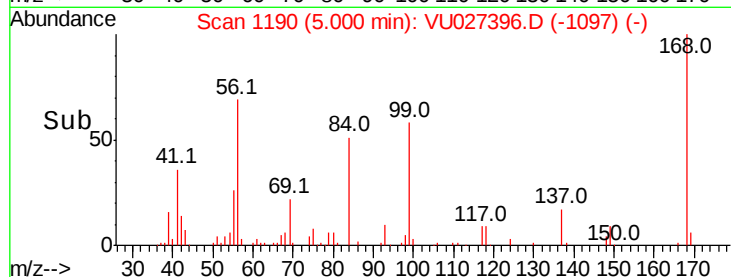
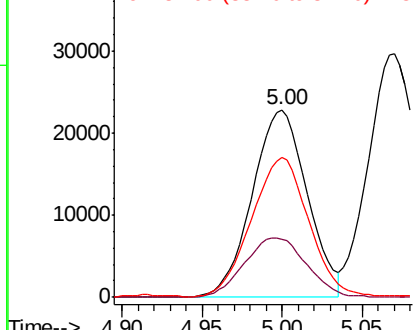
Tot Ion	Ratio	Lower	Upper
56	100		
69	31.3	24.1	36.1
84	74.0	59.1	88.7

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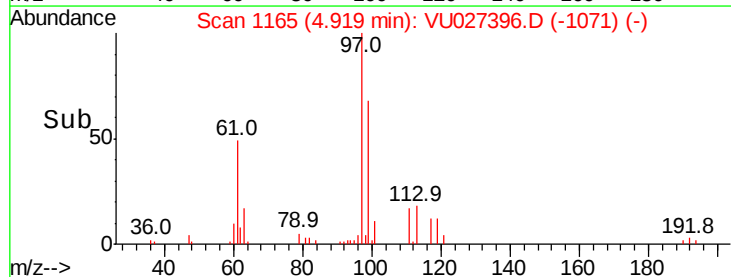
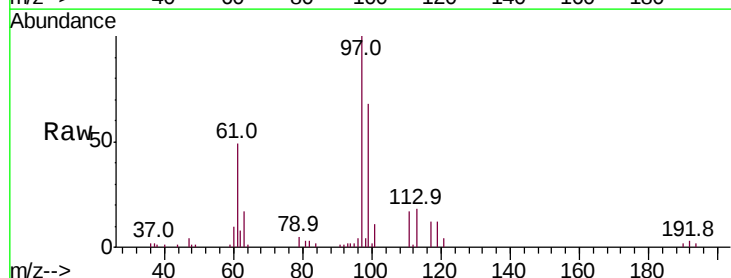
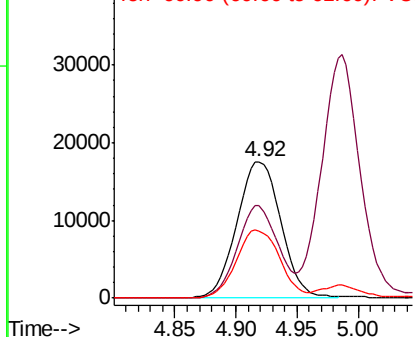
Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

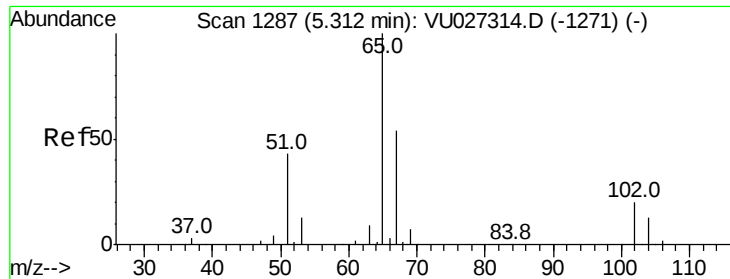


#32
1,1,1-Trichloroethane
Concen: 20.400 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.9	51.1	76.7
61	50.0	39.6	59.4

Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 98.90 (98.60 to 99.60): VU0
Ion 60.90 (60.60 to 61.60): VU0





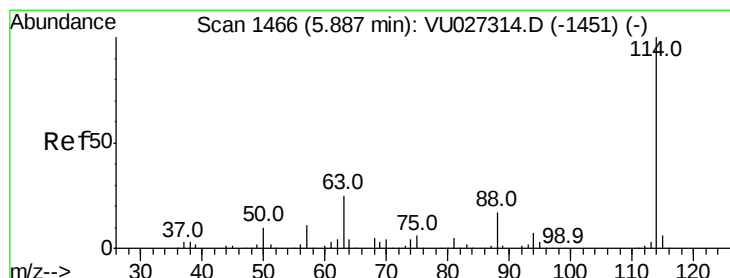
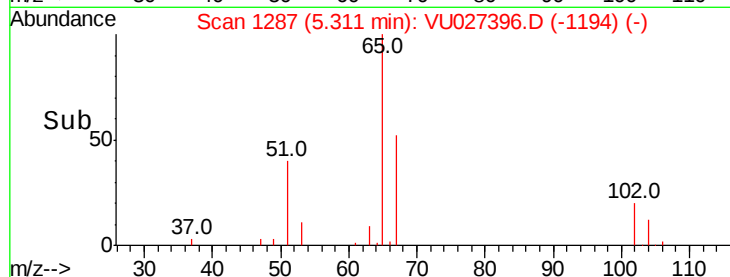
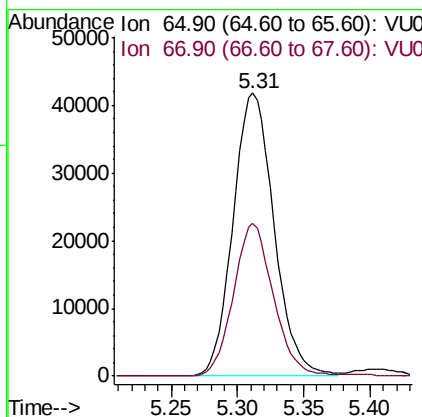
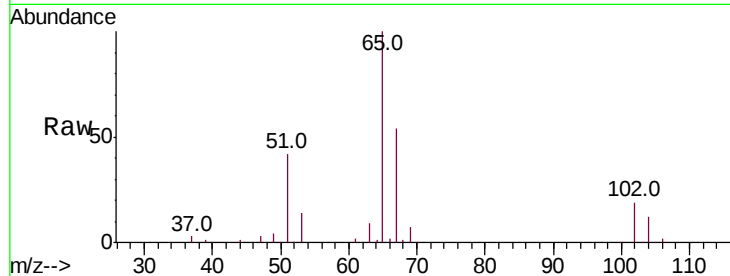
#33
 1,2-Dichloroethane-d4
 Concen: 49.019 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	107.8

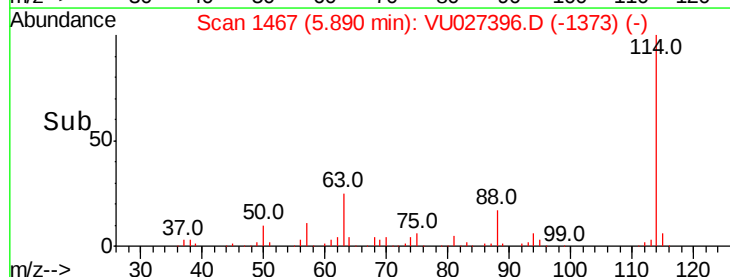
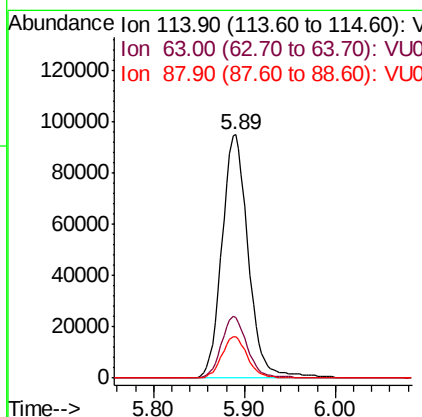
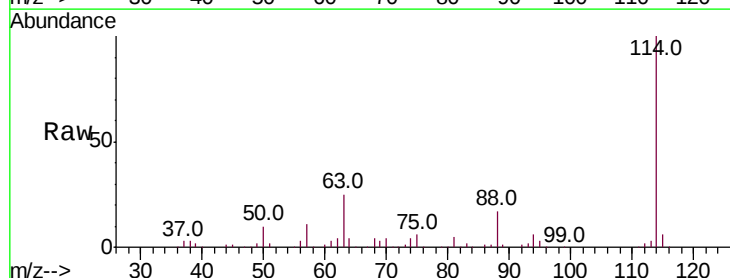
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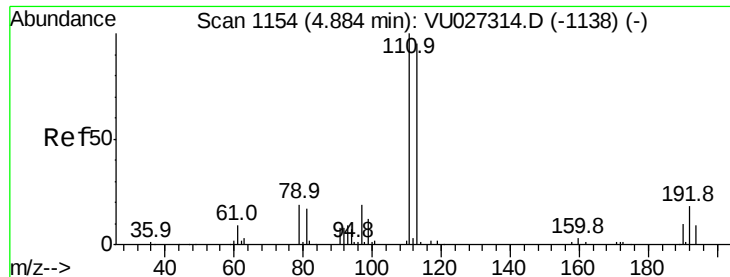
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.7	0.0	50.2
88	16.9	0.0	33.8





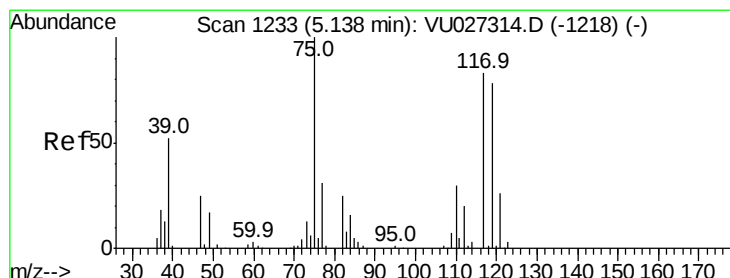
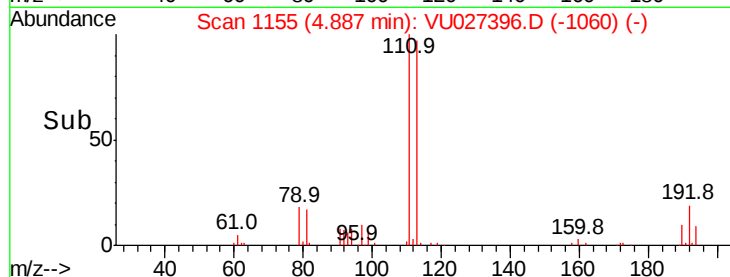
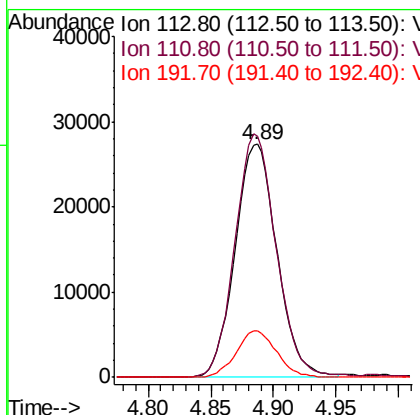
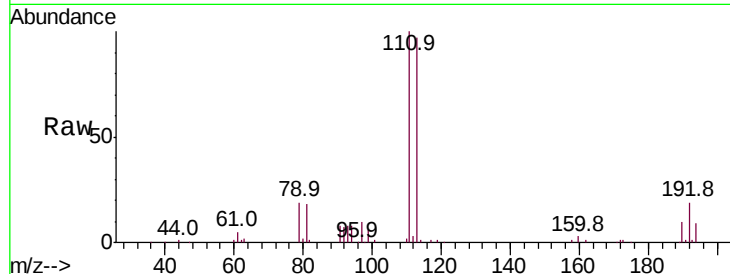
#35
 Dibromofluoromethane
 Concen: 48.426 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.1	124.7
192	19.1	15.4	23.0

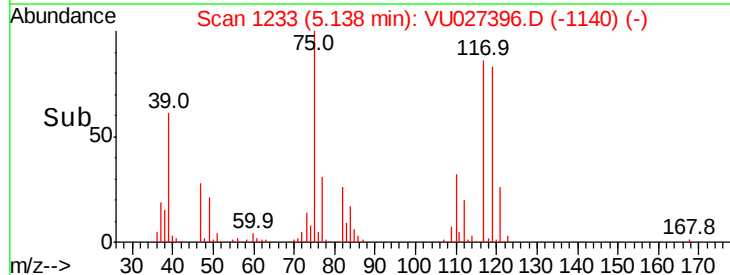
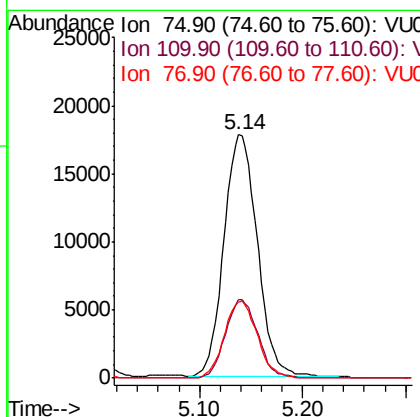
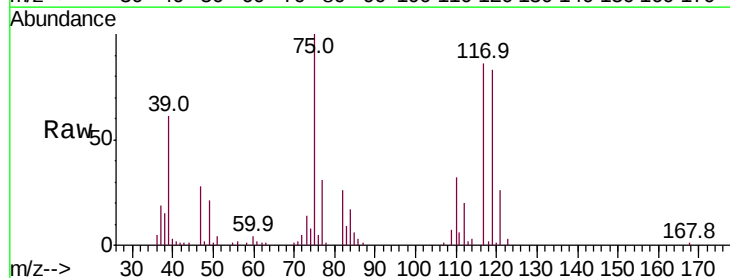
Manual Integrations
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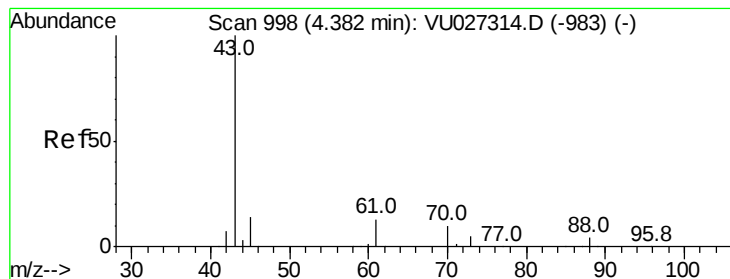
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#36
 1,1-Dichloropropene
 Concen: 19.263 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.4	15.5	46.5
77	31.3	25.4	38.0





#37

Ethyl Acetate

Concen: 19.745 ug/l

RT: 4.39 min Scan# 999

Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

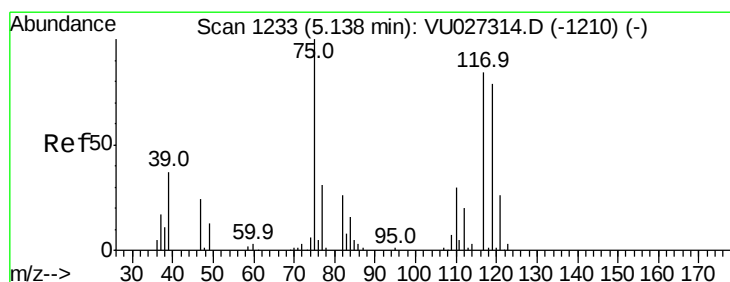
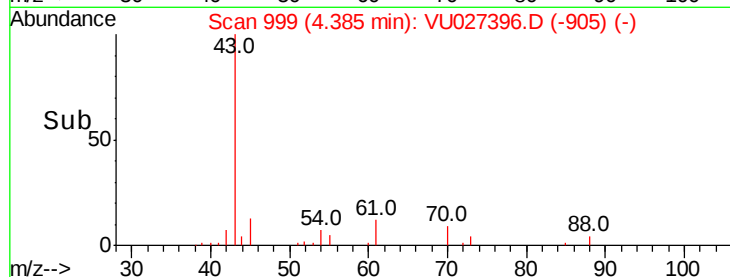
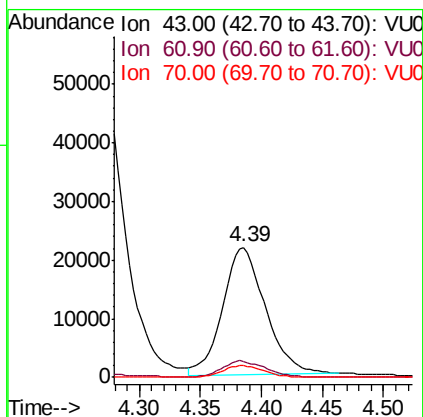
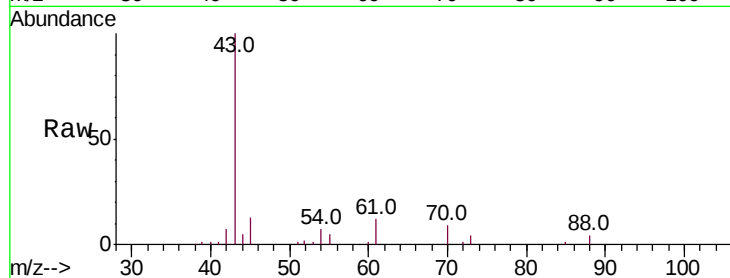
ClientSampleId :

VU1004MBSD02

Tot Ion:	43	Resp:	53024
Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.7	16.1
70	8.9	7.4	11.2

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#38

Carbon Tetrachloride

Concen: 19.590 ug/l

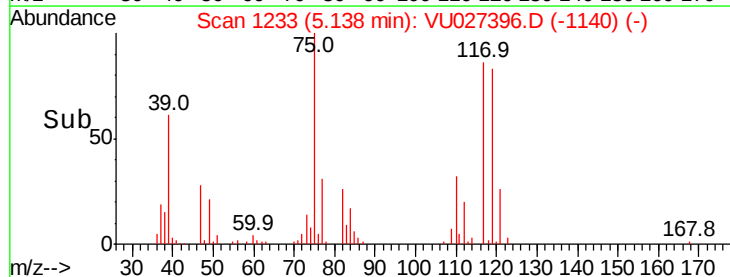
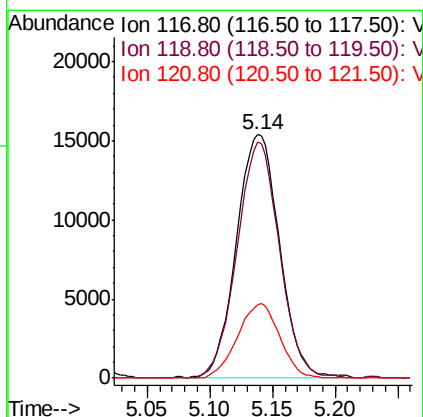
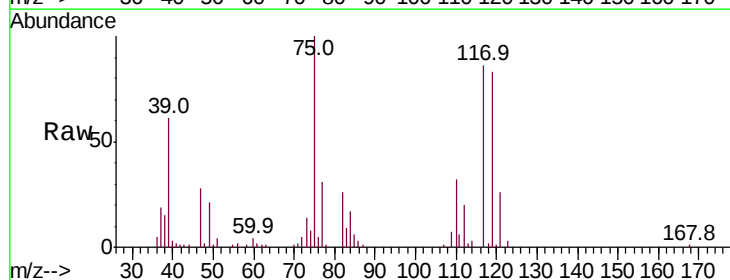
RT: 5.14 min Scan# 1233

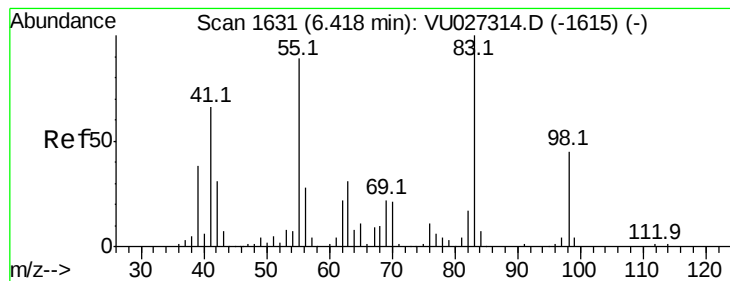
Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion:	117	Resp:	36769
Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.5	111.7
121	30.0	24.6	37.0





#39

Methvlcvclohexane

Concen: 17.747 ug/l

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 83 Resp: 43106

Ion Ratio Lower Upper

83 100

55 89.9 71.1 106.7

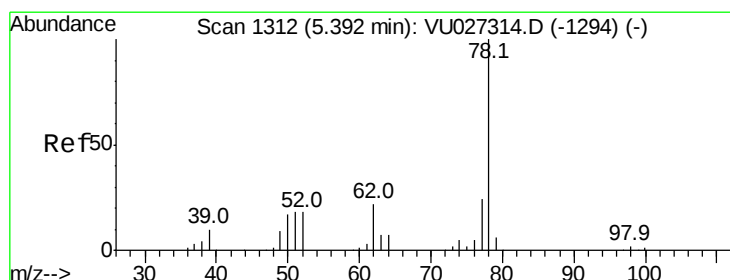
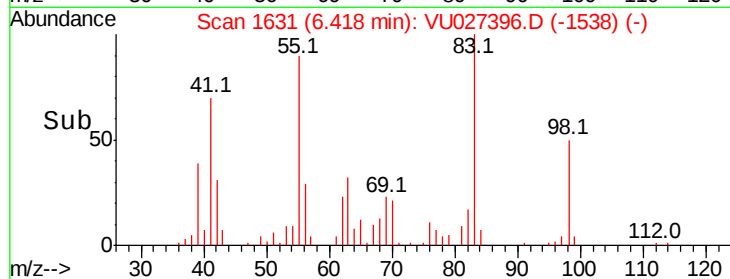
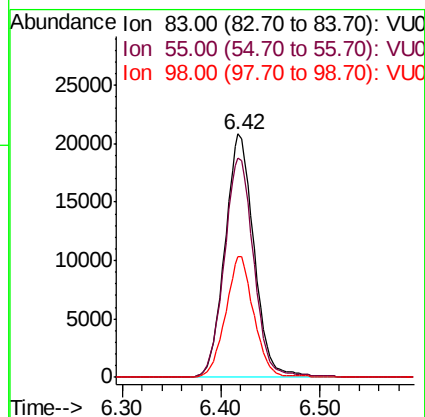
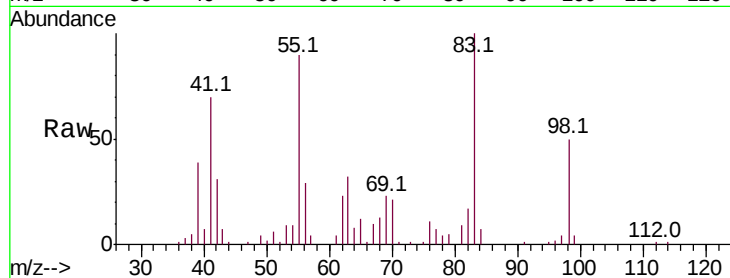
98 49.6 36.3 54.5

Manual Integrations

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#40

Benzene

Concen: 19.597 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU027396.D

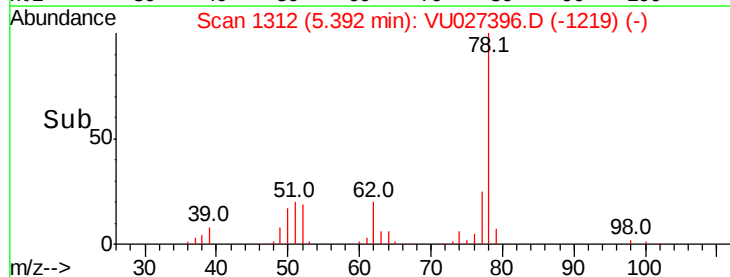
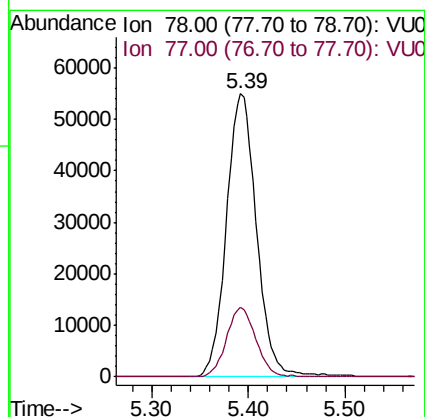
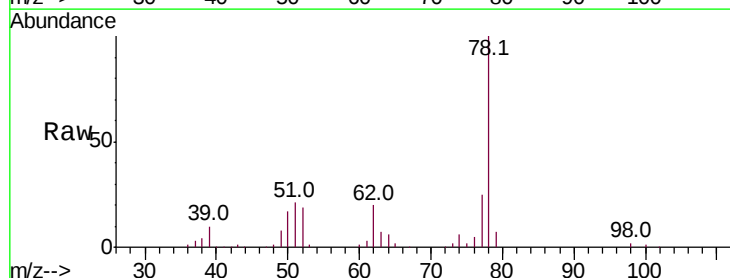
Acq: 04 Oct 2018 10:26

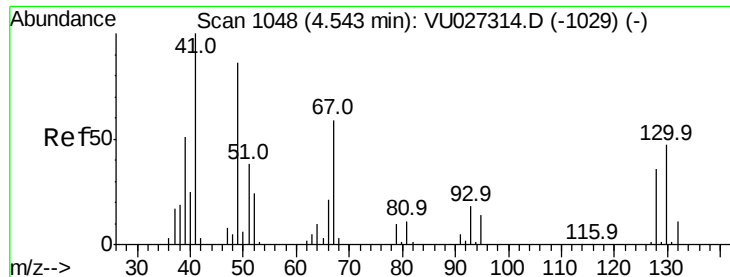
Tgt Ion: 78 Resp: 118610

Ion Ratio Lower Upper

78 100

77 24.6 19.3 28.9





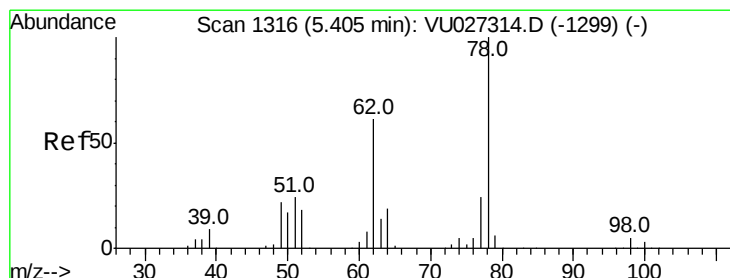
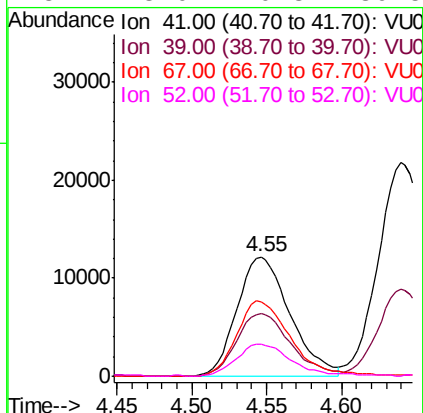
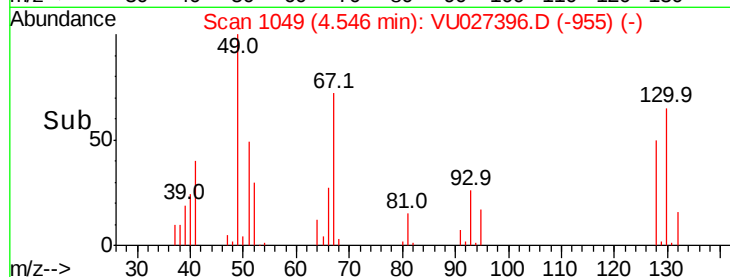
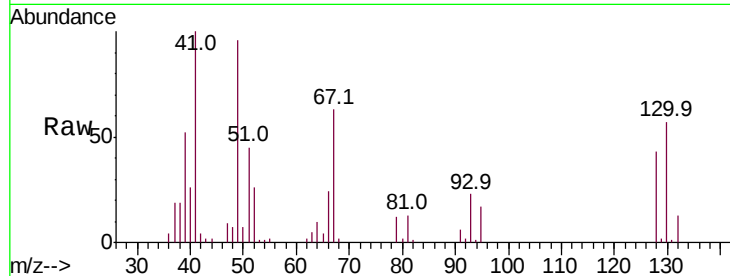
#41
Methacrylonitrile
Concen: 19.812 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.1	41.1	61.7
67	63.8	50.4	75.6
52	28.0	20.3	30.5

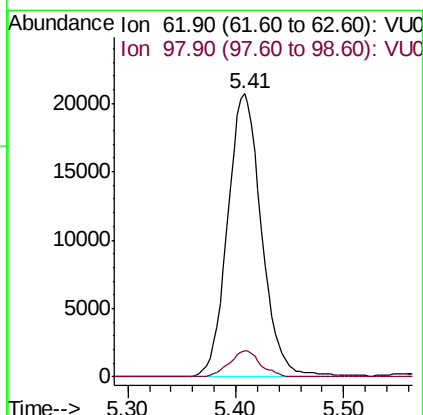
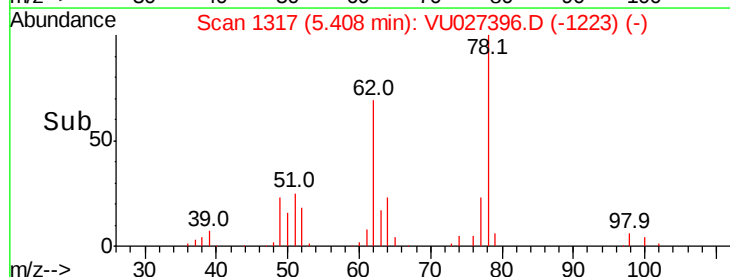
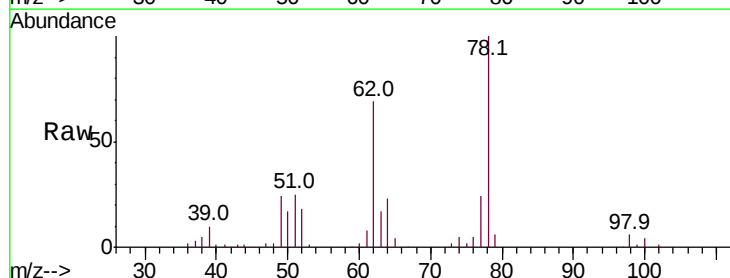
Manual Integrations
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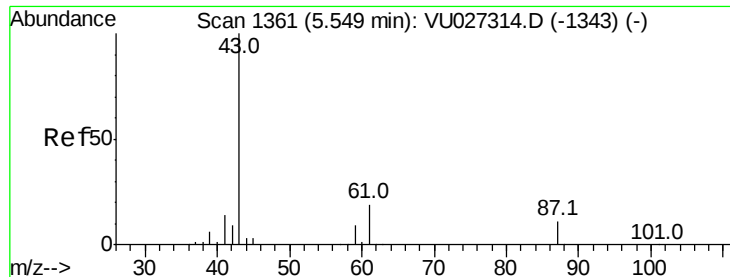
MMDadoda
10/8/2018 1:52:30 PM



#42
1,2-Dichloroethane
Concen: 20.187 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	16.8





#43

Isopropyl Acetate

Concen: 20.153 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

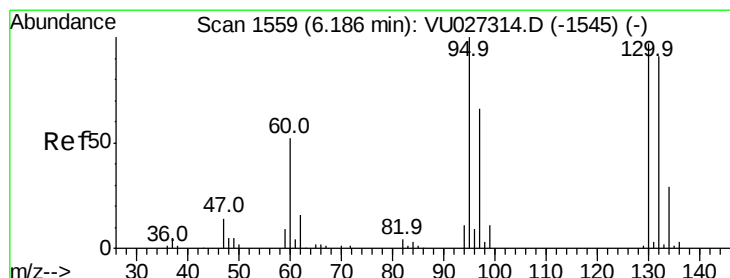
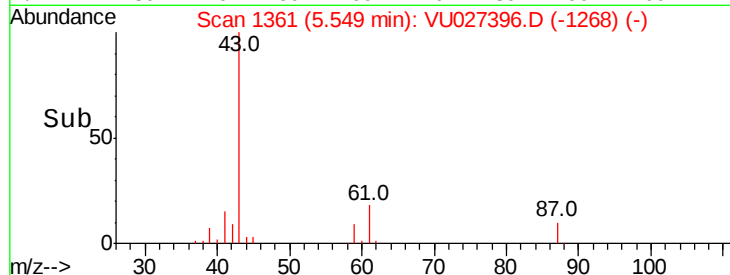
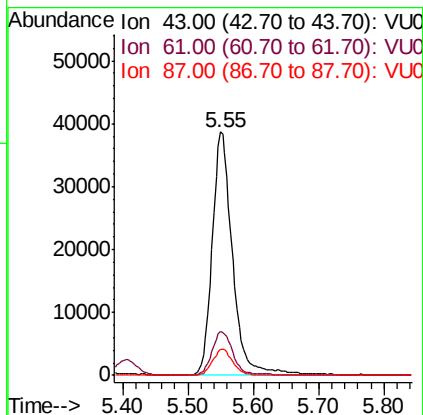
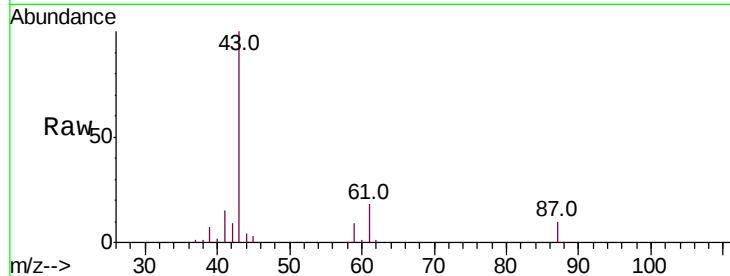
ClientSampleId :

VU1004MBSD02

Tot Ion:	43	Resp:	84055
Ion	Ratio	Lower	Upper
43	100		
61	18.1	15.3	22.9
87	10.6	8.6	13.0

Manual Integrations
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#44

Trichloroethene

Concen: 18.656 ug/l

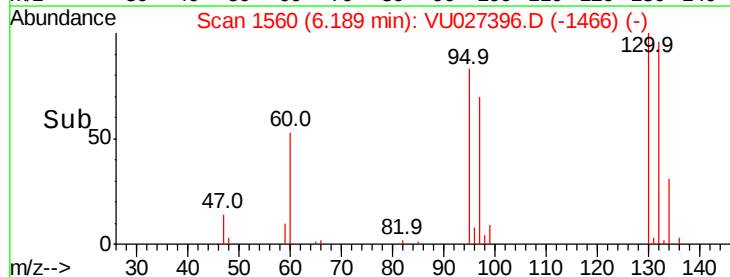
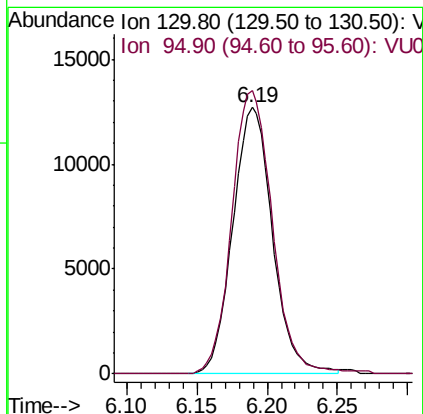
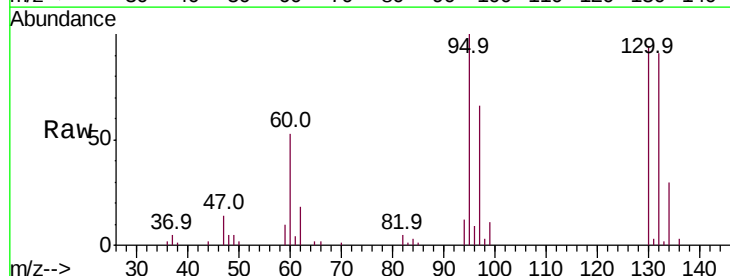
RT: 6.19 min Scan# 1560

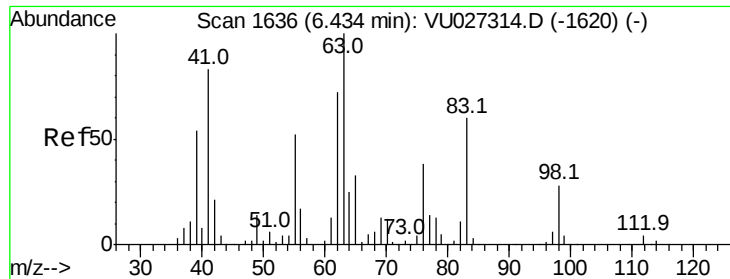
Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion:	130	Resp:	25178
Ion	Ratio	Lower	Upper
130	100		
95	106.3	0.0	207.0





#45

1,2-Dichloropropane

Concen: 19.672 ug/l

RT: 6.43 min Scan# 1636

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 63 Resp: 34343

Ion Ratio Lower Upper

63 100

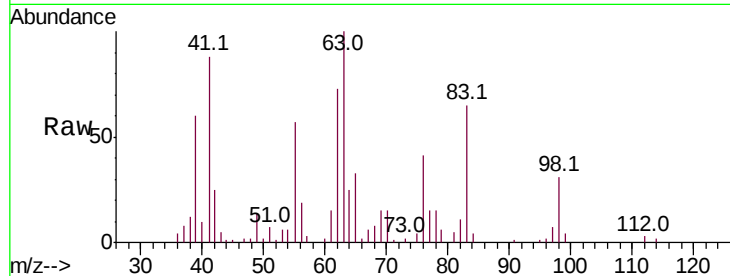
65 33.3 26.0 39.0

Manual Integrations

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MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0

20000

15000

10000

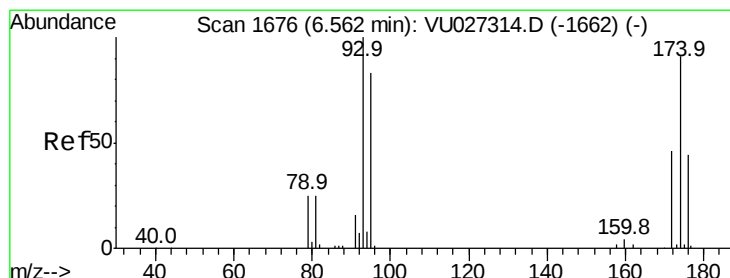
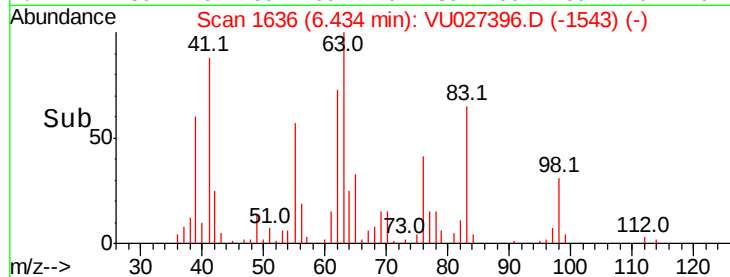
5000

0

6.35 6.40 6.45 6.50 6.55

6.43

Time-->



#46

Dibromomethane

Concen: 20.499 ug/l

RT: 6.56 min Scan# 1676

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

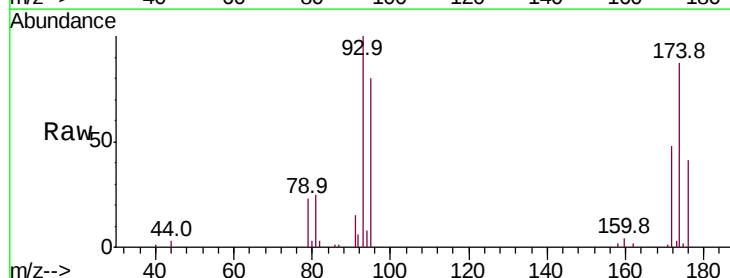
Tgt Ion: 93 Resp: 20212

Ion Ratio Lower Upper

93 100

95 80.5 66.5 99.7

174 88.6 72.5 108.7



Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V

10000

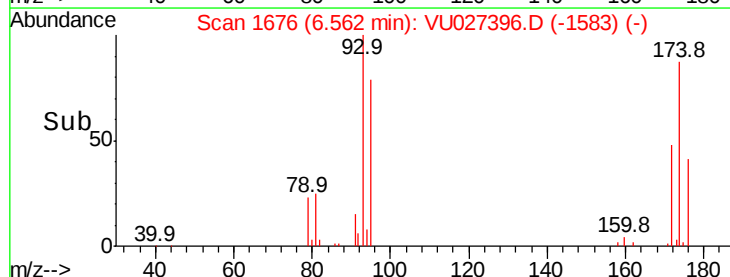
5000

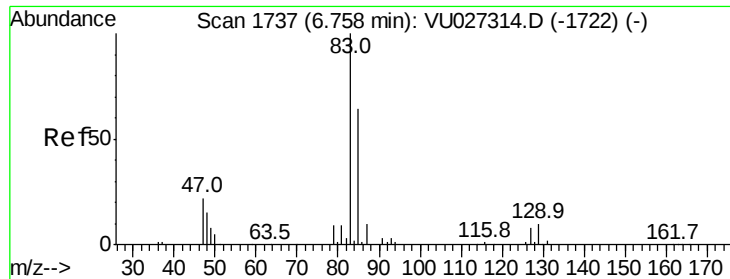
0

6.50 6.55 6.60 6.65

6.56

Time-->





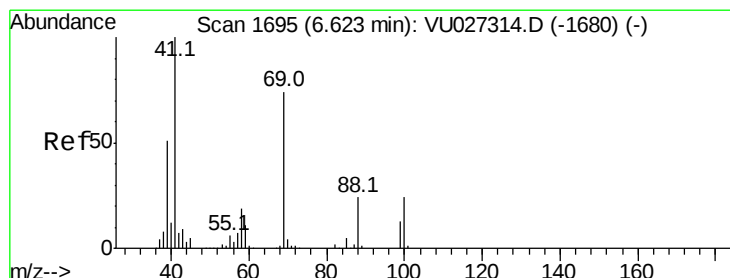
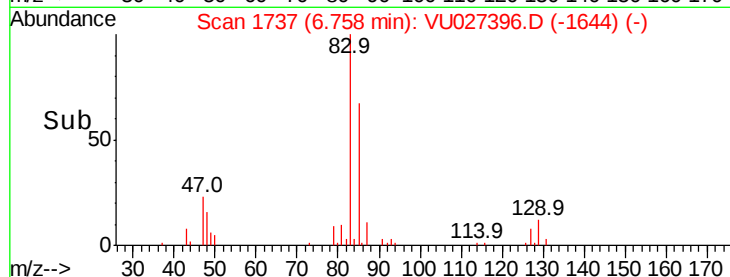
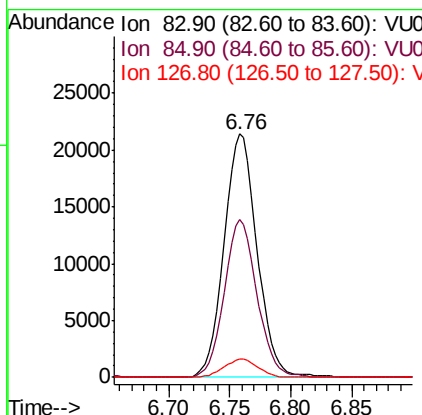
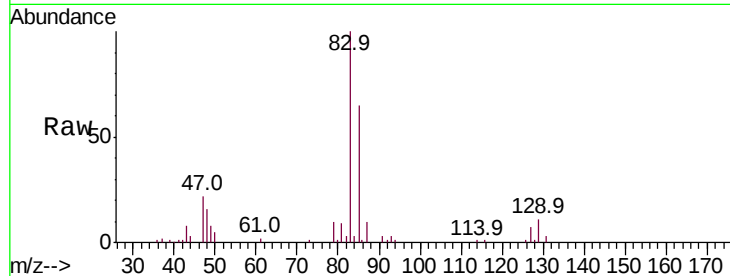
#47
Bromodichloromethane
Concen: 19.803 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	83	85	127
83	100		
85	64.9	51.4	77.0
127	7.4	6.3	9.5

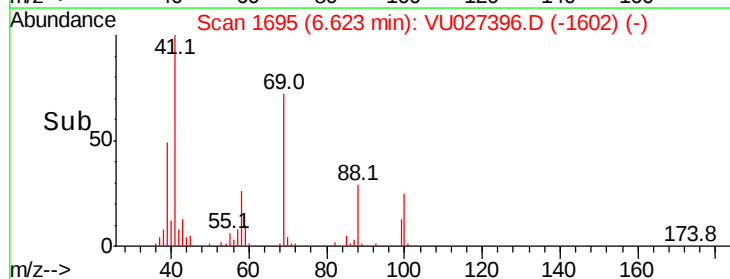
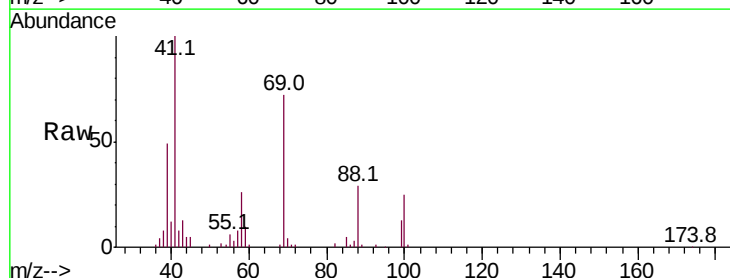
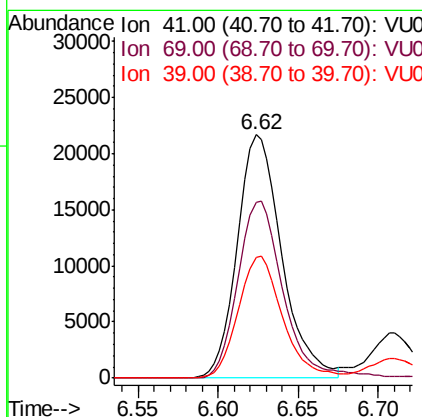
Manual Integrations
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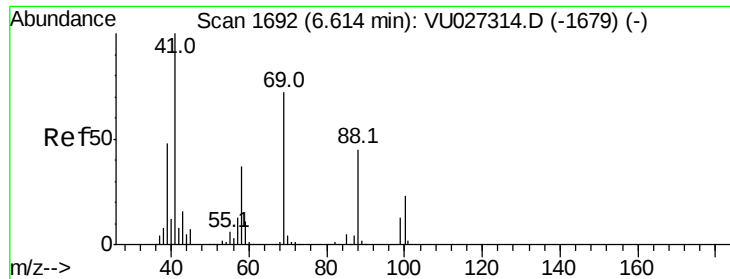
MMDadoda
10/8/2018 1:52:30 PM



#48
Methyl methacrylate
Concen: 19.917 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	41	69	39
41	100		
69	74.2	61.0	91.4
39	49.8	39.9	59.9





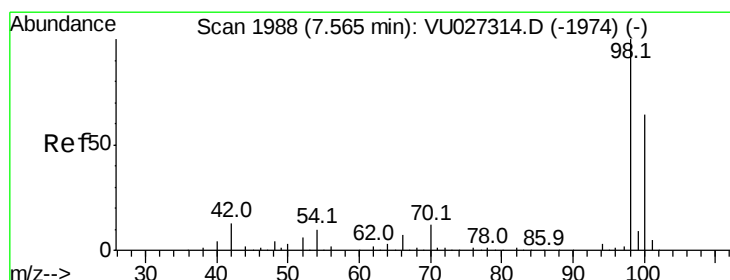
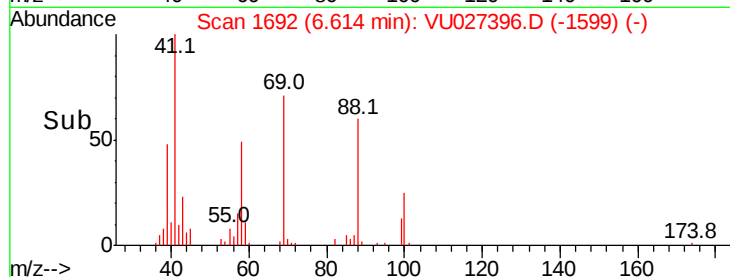
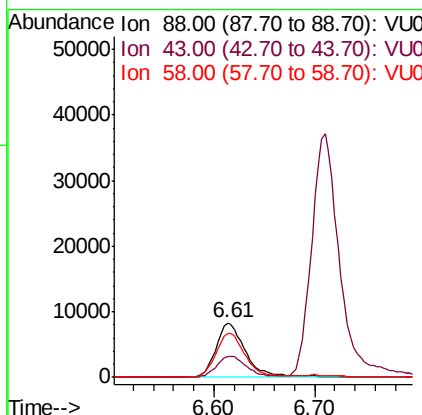
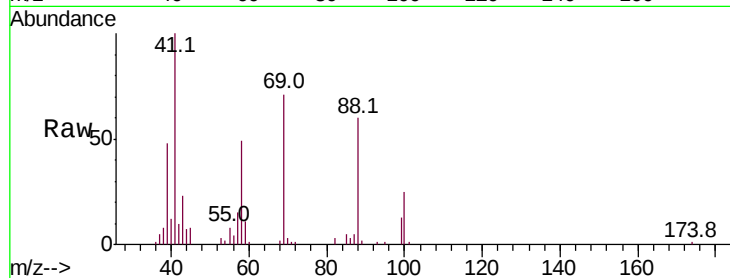
#49
1,4-Dioxane
Concen: 476.153 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.0	30.8	46.2
58	81.2	67.0	100.6

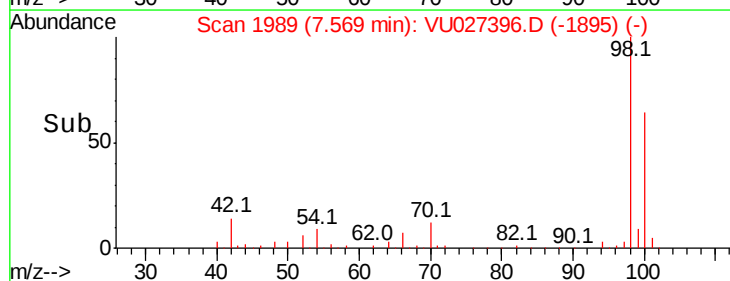
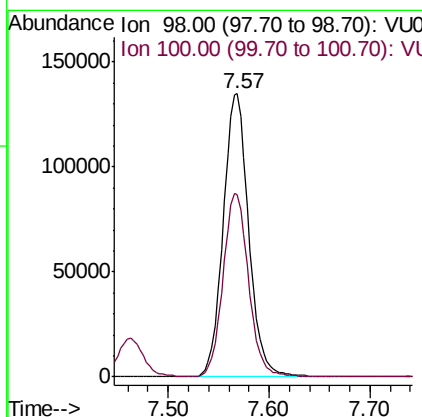
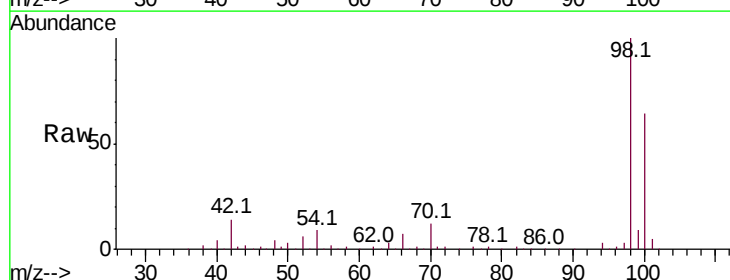
Manual Integrations
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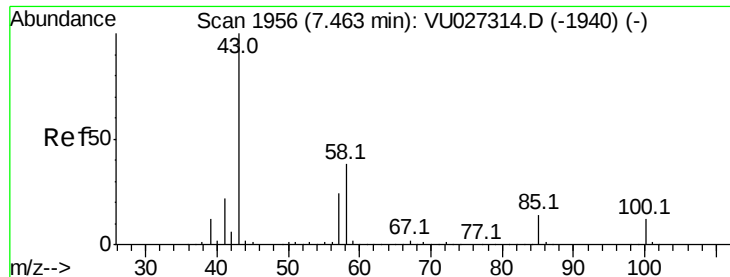
MMDadoda
10/8/2018 1:52:30 PM



#50
Toluene-d8
Concen: 48.548 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 102.635 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 43 Resp: 278163

Ion Ratio Lower Upper

43 100

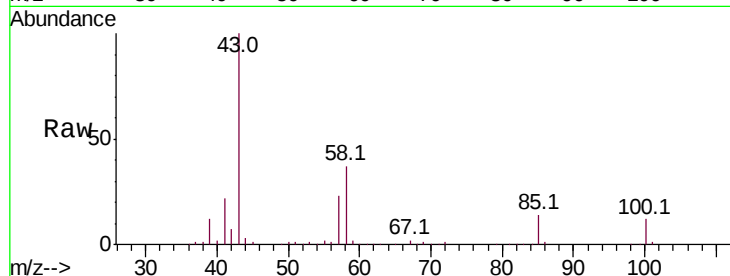
58 36.8 29.8 44.8

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

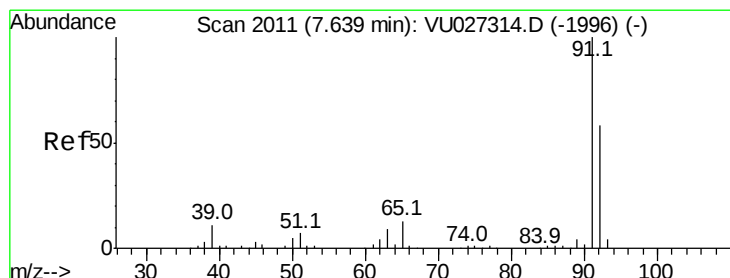
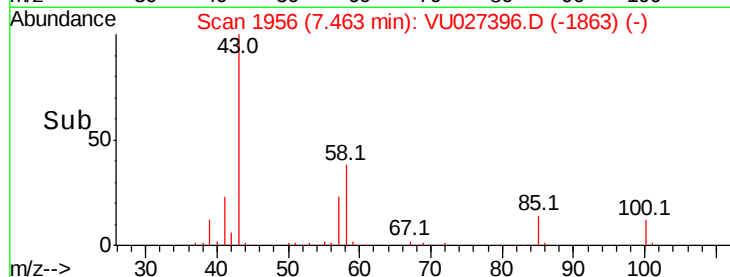
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 19.347 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027396.D

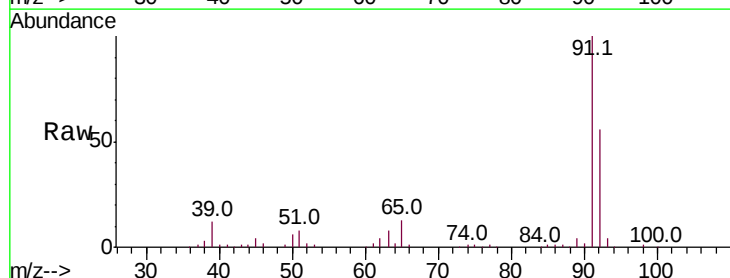
Acq: 04 Oct 2018 10:26

Tgt Ion: 92 Resp: 69310

Ion Ratio Lower Upper

92 100

91 173.6 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

80000

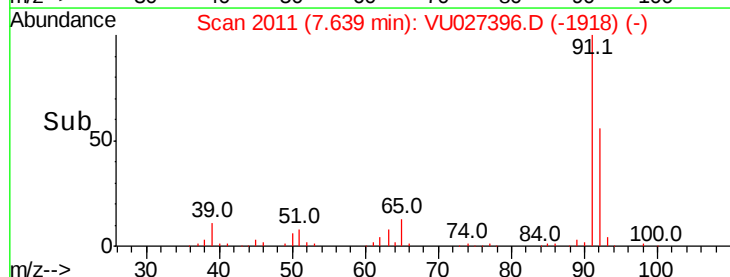
60000

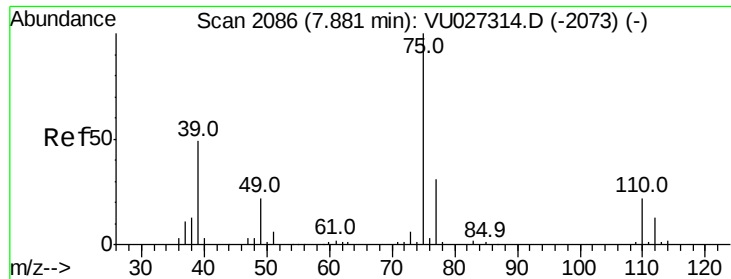
40000

20000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 19.367 ug/l

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 75 Resp: 46458

Ion Ratio Lower Upper

75 100

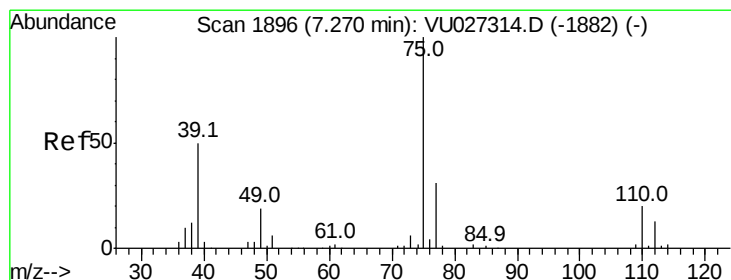
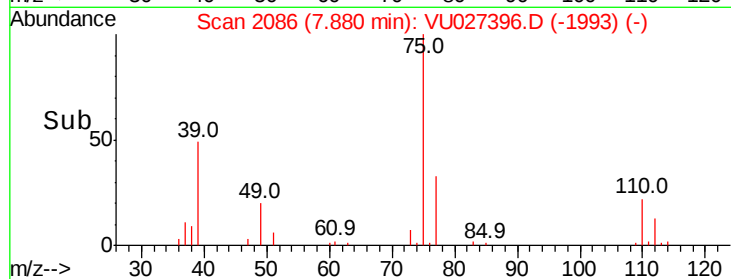
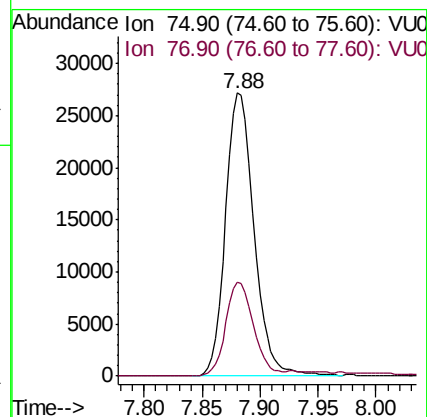
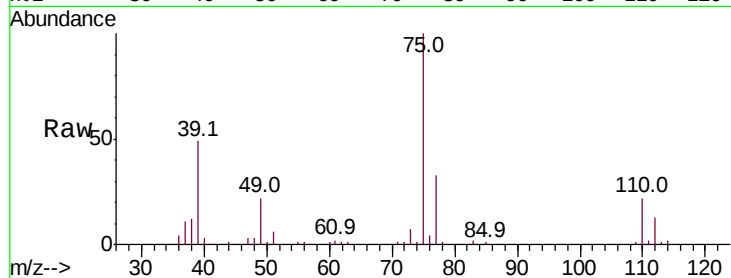
77 33.1 25.0 37.6

Manual Integrations

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MMDadoda

10/8/2018 1:52:30 PM



#54

cis-1,3-Dichloropropene

Concen: 19.578 ug/l

RT: 7.27 min Scan# 1896

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

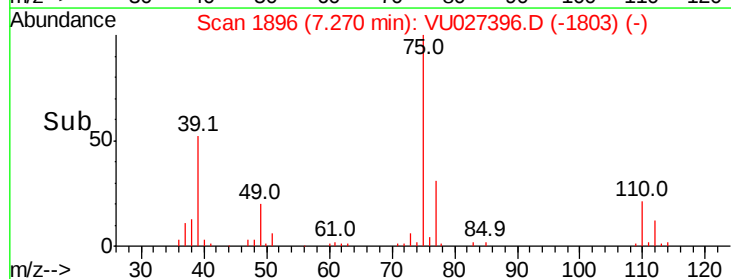
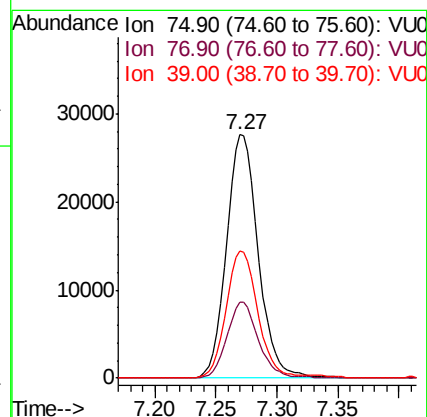
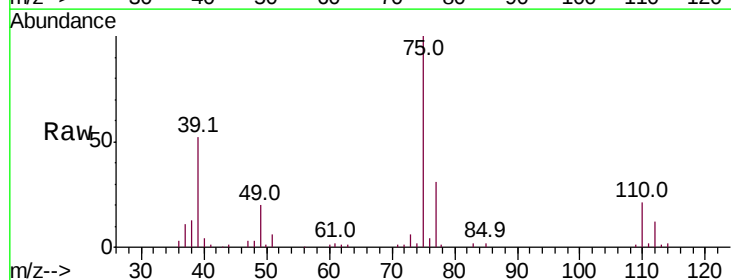
Tgt Ion: 75 Resp: 50486

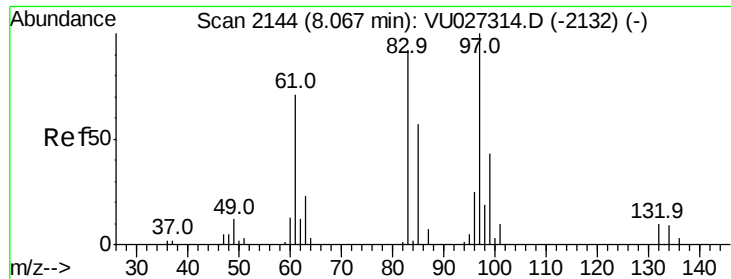
Ion Ratio Lower Upper

75 100

77 31.1 24.5 36.7

39 52.4 40.1 60.1





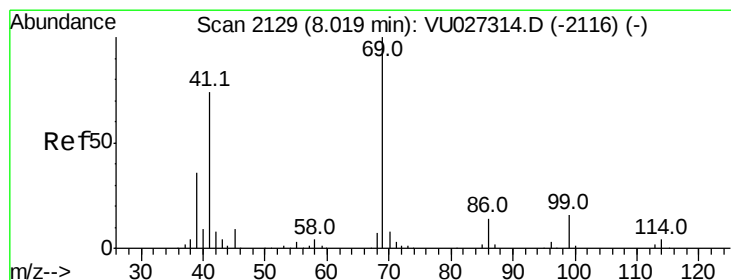
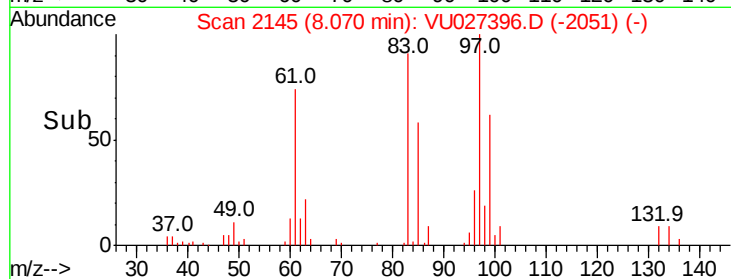
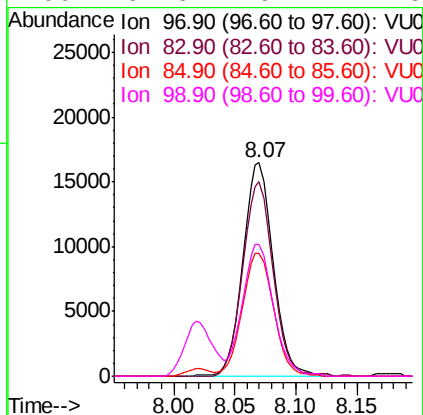
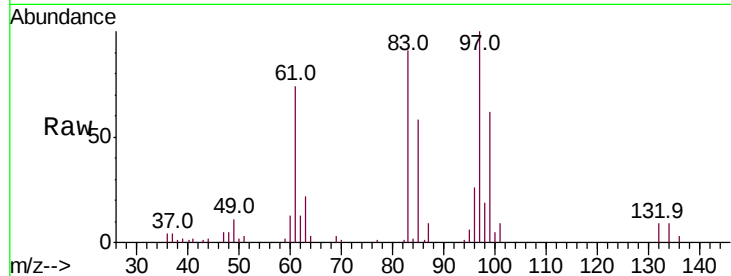
#55
 1,1,2-Trichloroethane
 Concen: 19.805 ug/l
 RT: 8.07 min Scan# 2145
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Tot Ion:	97	Resp:	28131
Ion	Ratio	Lower	Upper
97	100		
83	91.0	73.0	109.6
85	57.6	47.3	70.9
99	61.6	49.7	74.5

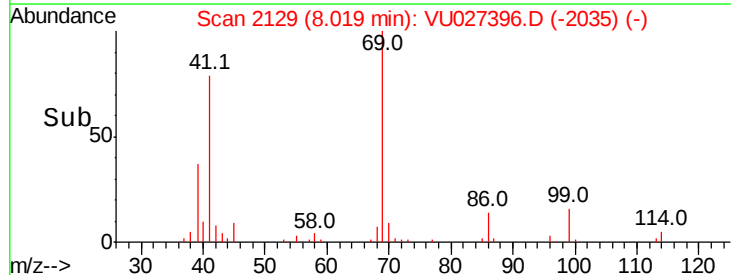
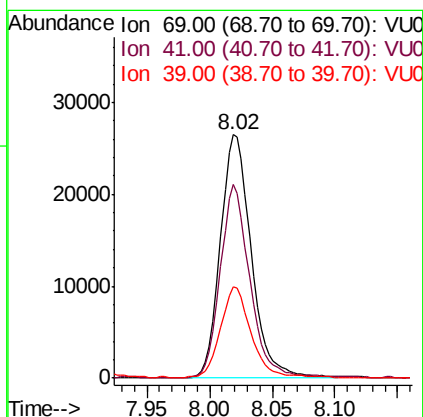
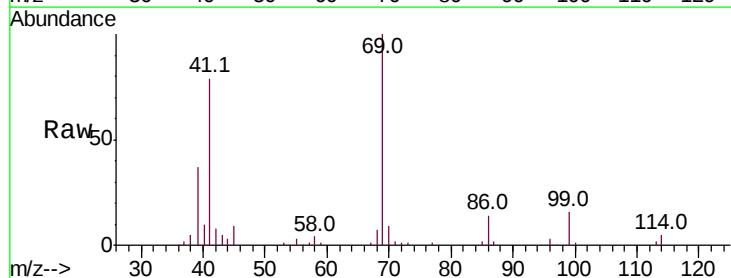
Manual Integrations
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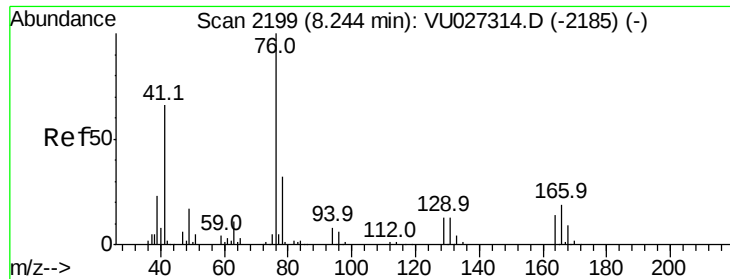
MMDadoda
 10/8/2018 1:52:30 PM



#56
 Ethyl methacrylate
 Concen: 18.160 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion:	69	Resp:	45274
Ion	Ratio	Lower	Upper
69	100		
41	75.8	60.0	90.0
39	37.6	29.5	44.3





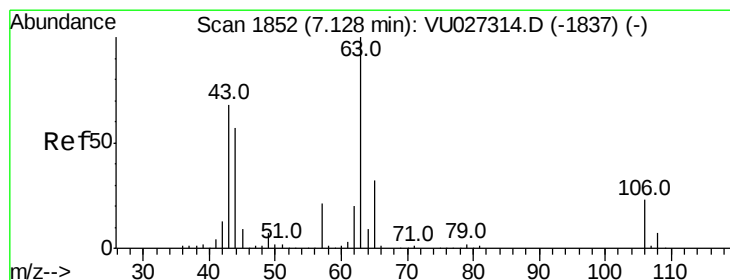
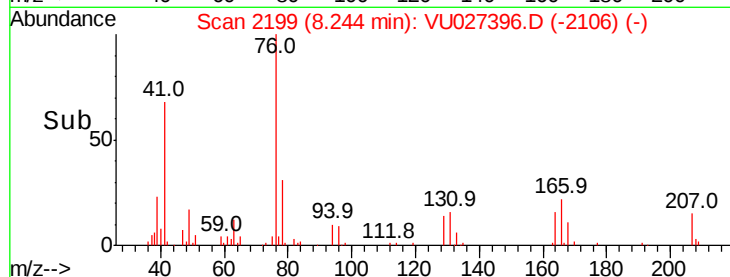
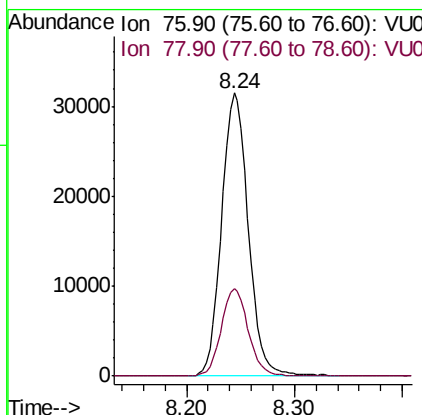
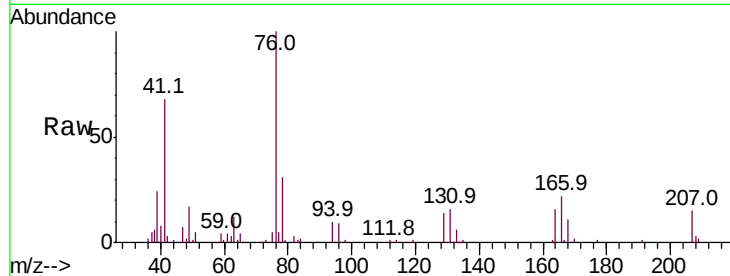
#57
 1,3-Dichloropropane
 Concen: 19.653 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Tot Ion: 76 Resp: 54192
 Ion Ratio Lower Upper
 76 100
 78 31.3 25.8 38.6

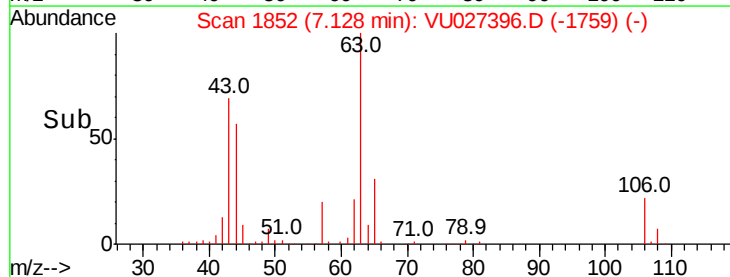
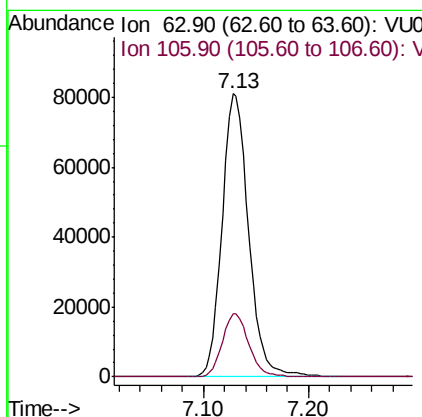
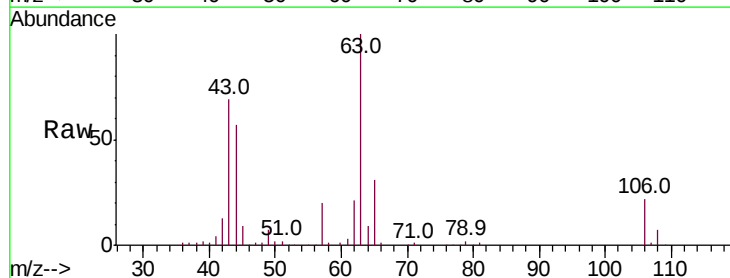
Manual Integrations
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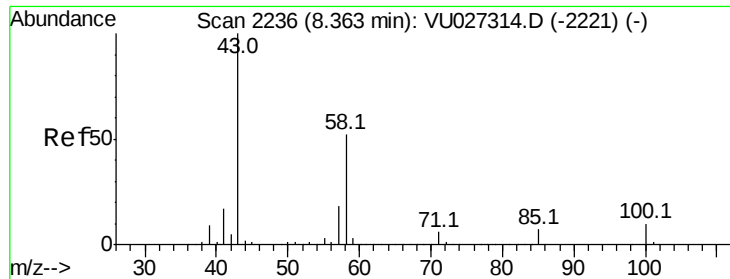
MMDadoda
 10/8/2018 1:52:30 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.665 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion: 63 Resp: 141229
 Ion Ratio Lower Upper
 63 100
 106 22.4 18.5 27.7





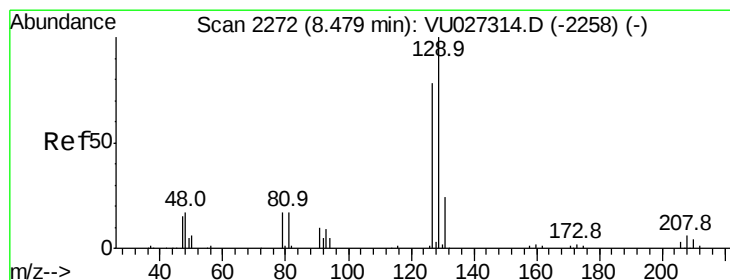
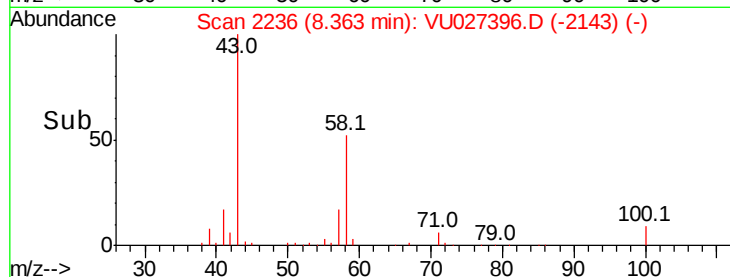
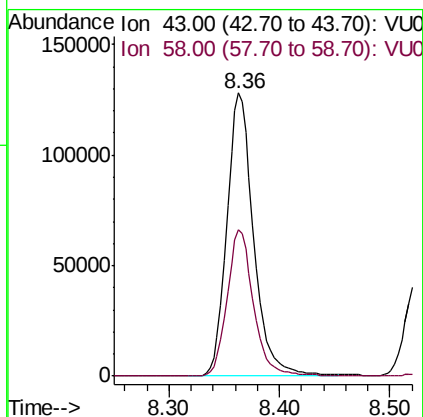
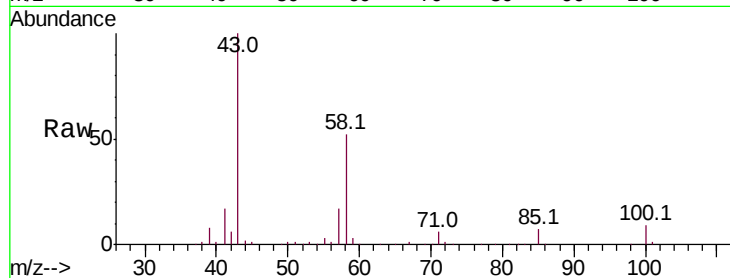
#59
2-Hexanone
Concen: 102.449 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion: 43 Resp: 215387
Ion Ratio Lower Upper
43 100
58 51.2 26.1 78.3

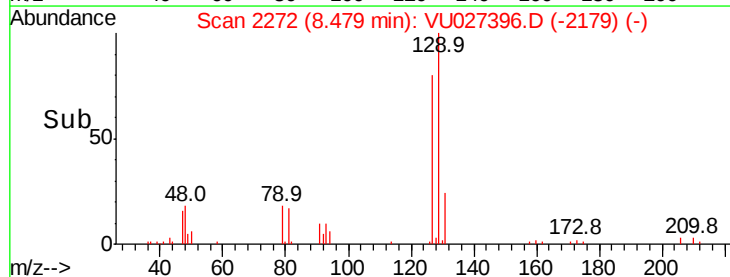
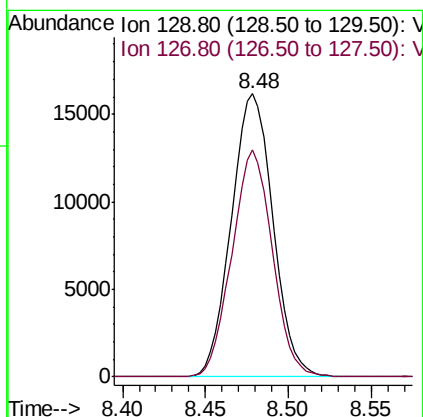
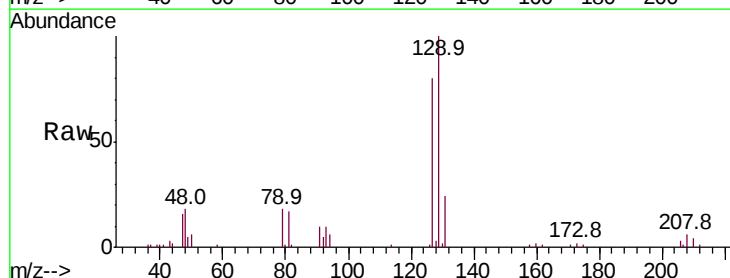
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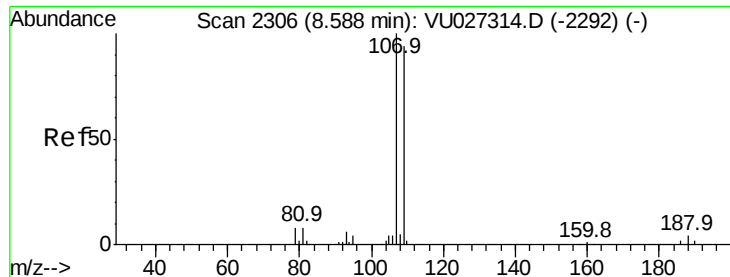
MMDadoda
10/8/2018 1:52:30 PM



#60
Dibromochloromethane
Concen: 19.852 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion: 129 Resp: 28281
Ion Ratio Lower Upper
129 100
127 77.9 39.1 117.2





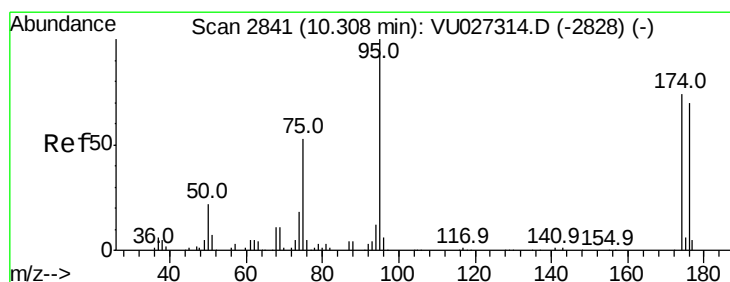
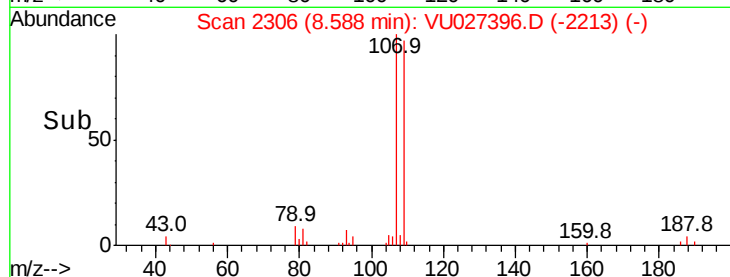
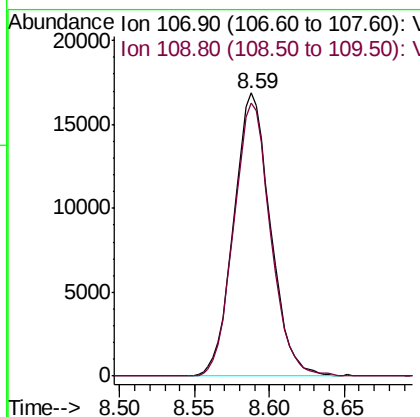
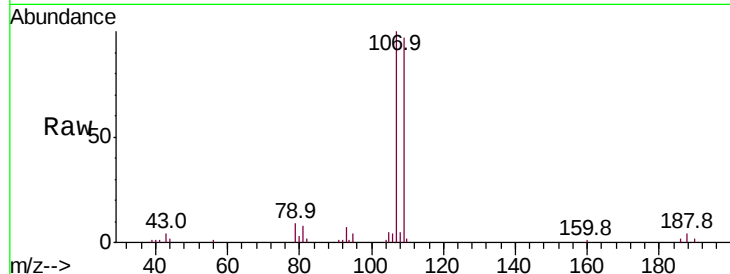
#61
 1,2-Dibromoethane
 Concen: 19.162 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.4	74.5	111.7

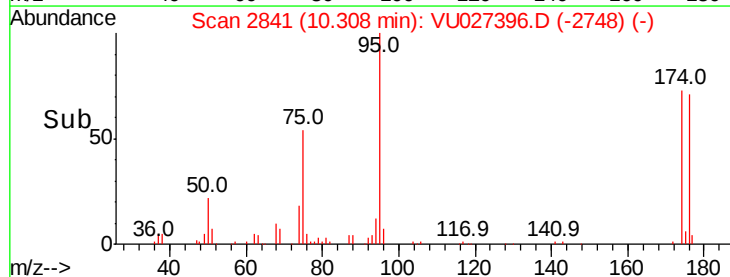
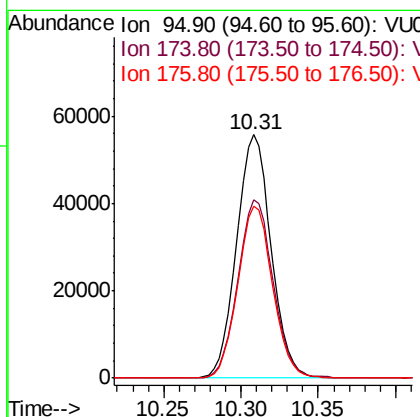
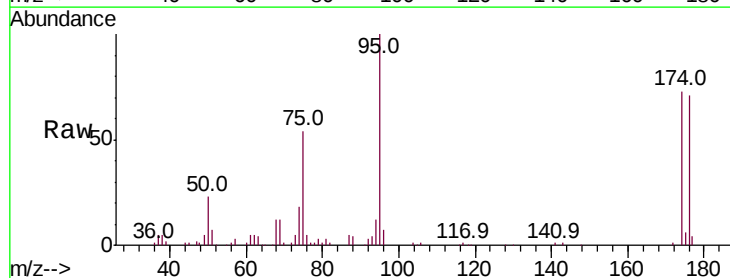
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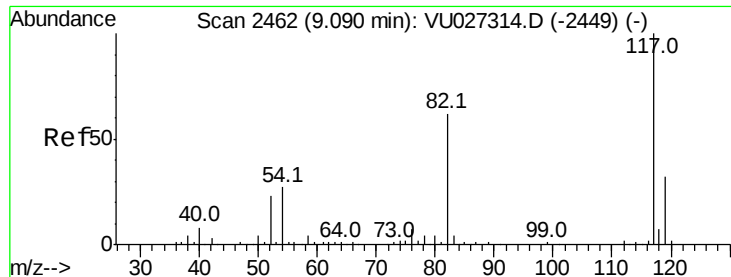
MMDadoda
 10/8/2018 1:52:30 PM



#62
 4-Bromofluorobenzene
 Concen: 47.437 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.7	0.0	147.8
176	70.9	0.0	140.8





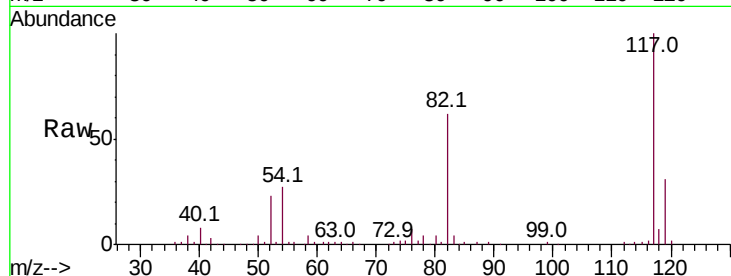
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	178971		
82	62.5	49.2	73.8	
119	31.3	25.7	38.5	

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10/8/2018 1:52:30 PM

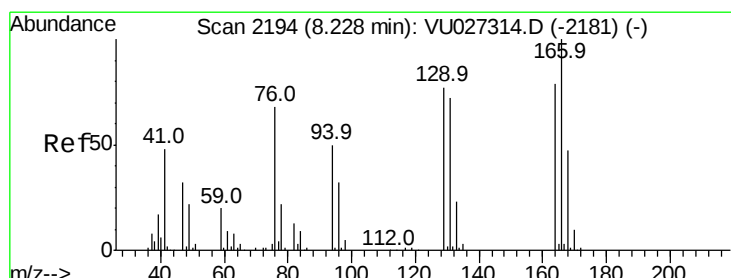
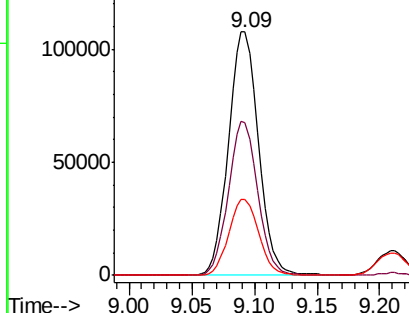
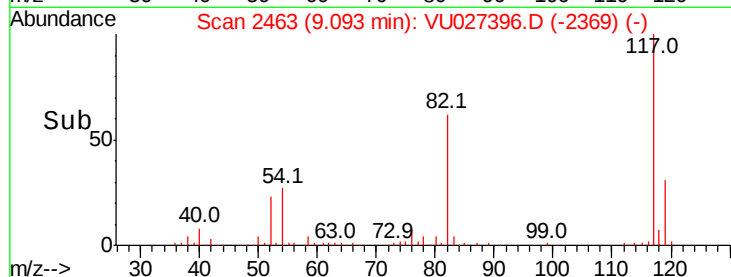


Abundance

Ion 116.90 (116.60 to 117.60): V

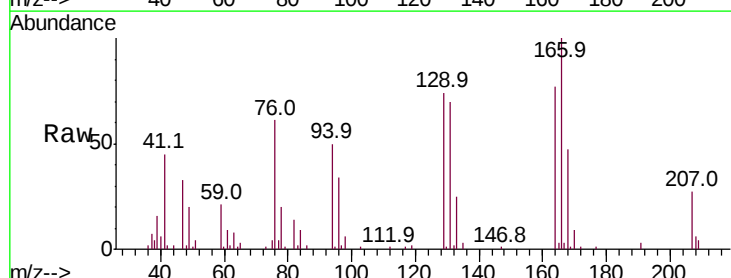
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 19.069 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	21245		
166	130.6	101.0	151.6	
129	96.5	78.0	117.0	
131	91.0	72.6	109.0	



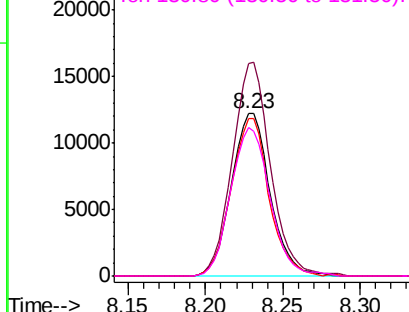
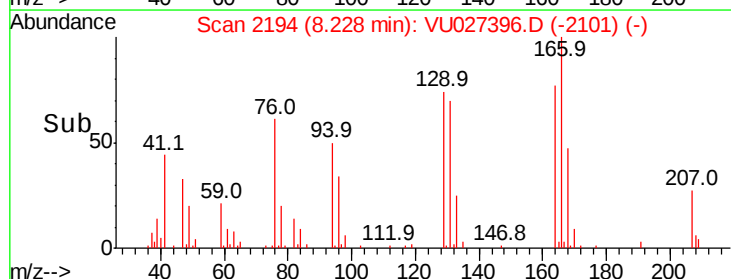
Abundance

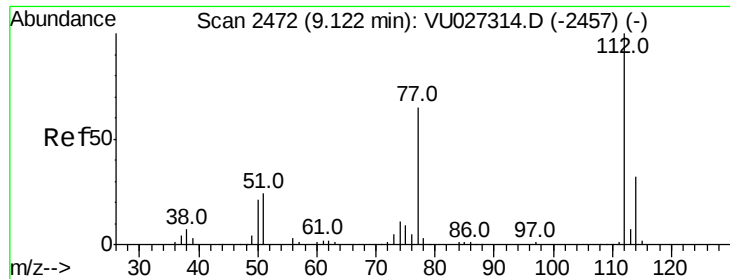
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





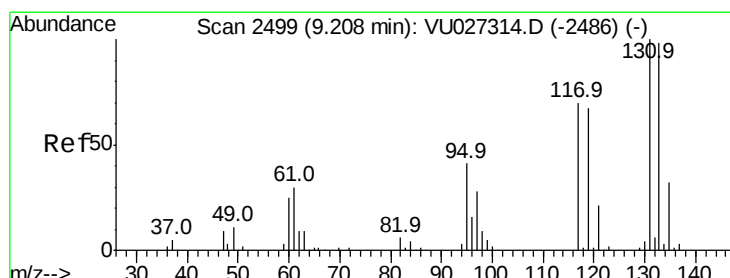
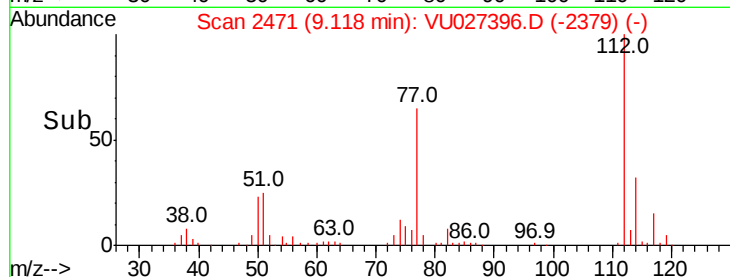
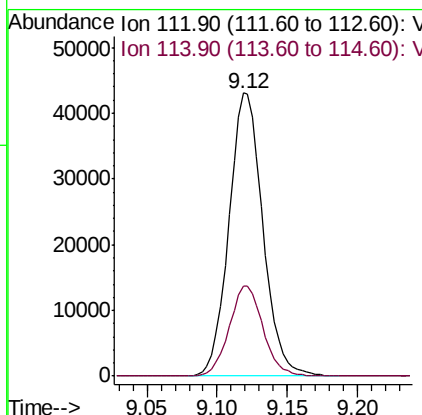
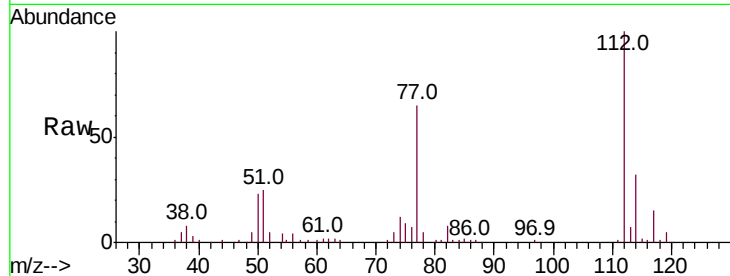
#65
Chlorobenzene
Concen: 19.232 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion:112 Resp: 72452
Ion Ratio Lower Upper
112 100
114 31.7 25.8 38.6

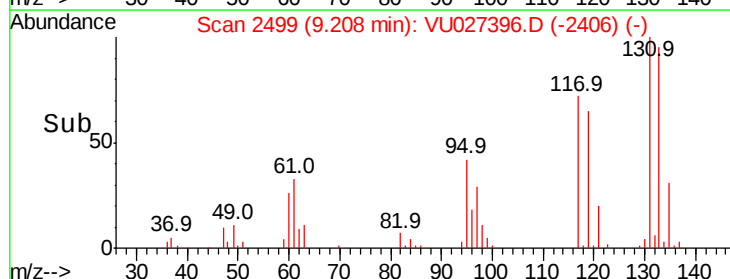
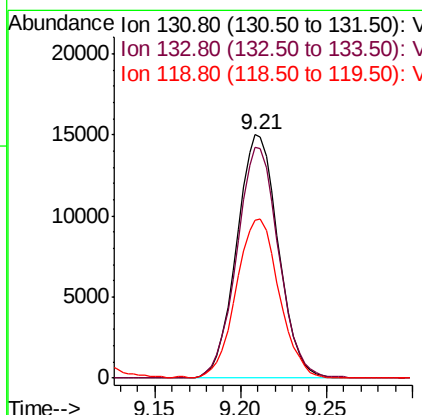
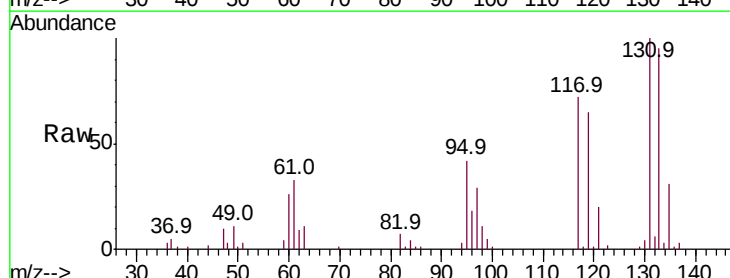
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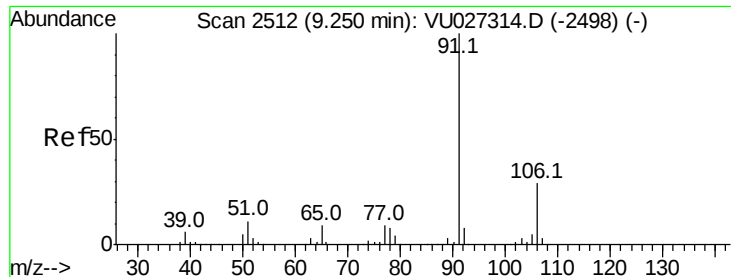
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.443 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion:131 Resp: 25286
Ion Ratio Lower Upper
131 100
133 95.6 48.5 145.6
119 67.3 33.5 100.4





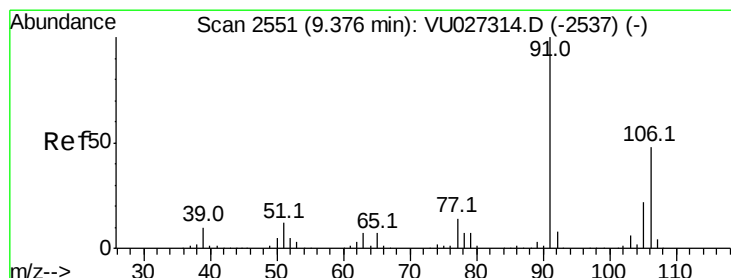
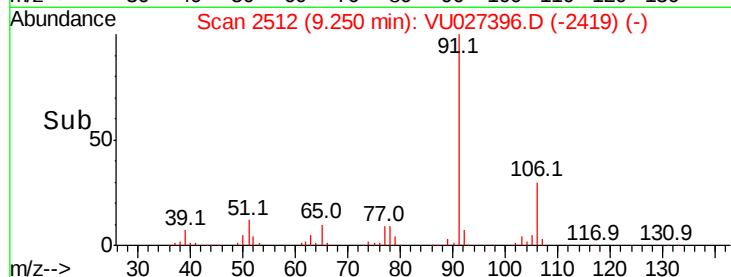
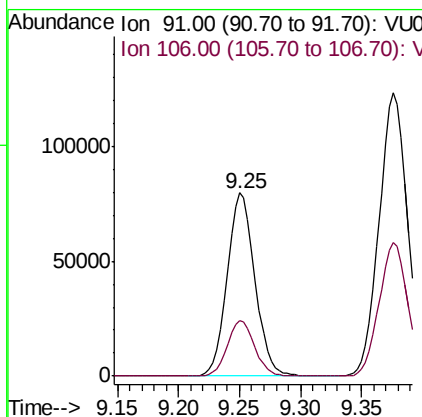
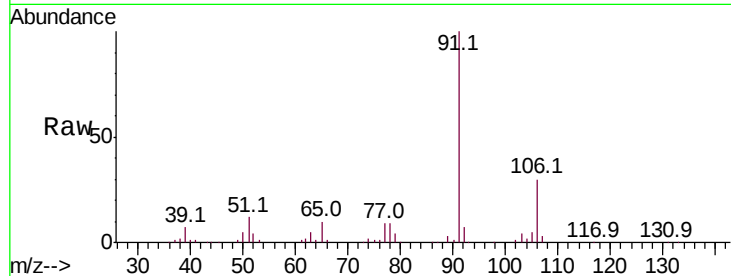
#67
Ethyl Benzene
Concen: 19.025 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion: 91 Resp: 126980
Ion Ratio Lower Upper
91 100
106 30.3 23.6 35.4

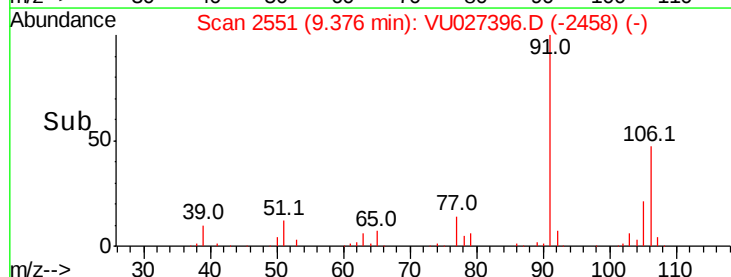
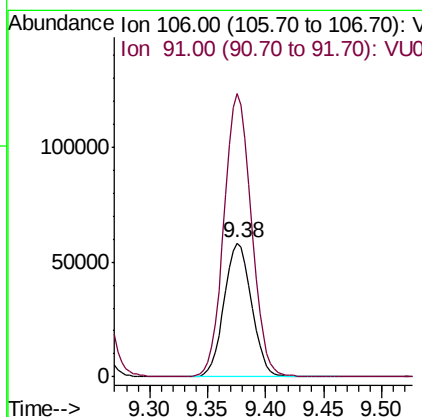
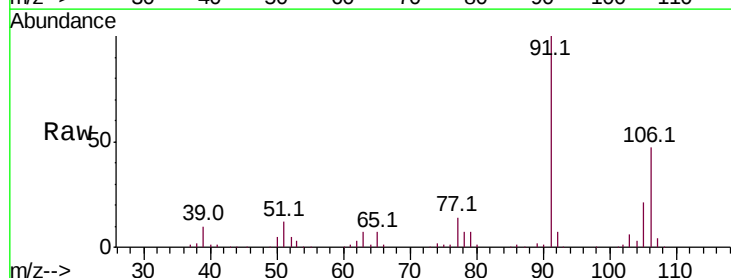
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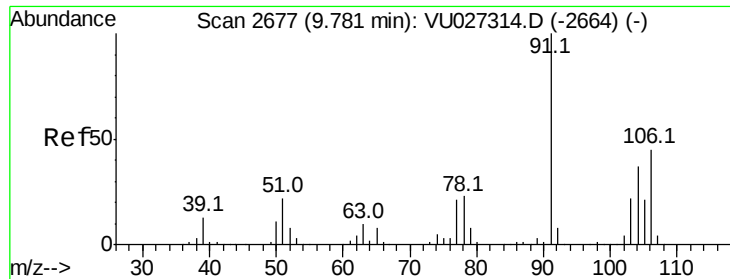
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#68
m/p-Xylenes
Concen: 39.045 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion: 106 Resp: 95324
Ion Ratio Lower Upper
106 100
91 210.4 168.1 252.1





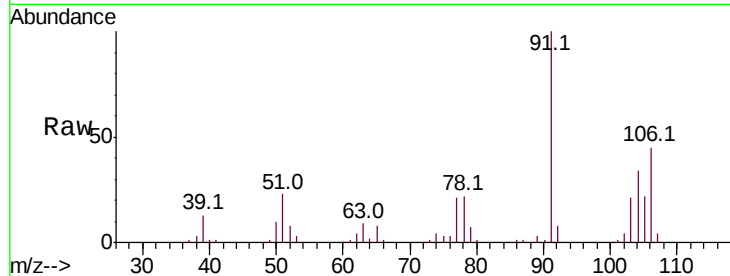
#69
o-Xylene
Concen: 19.489 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampled :
VU1004MBSD02

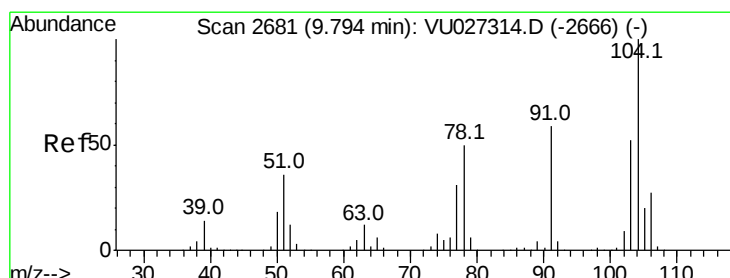
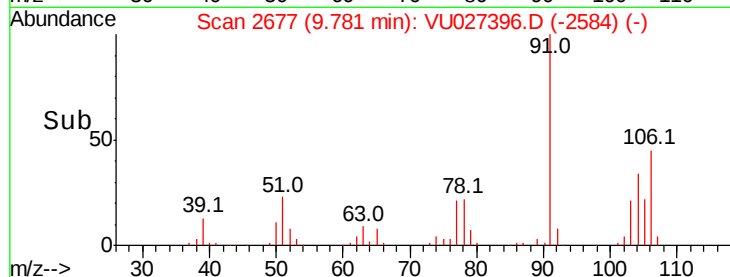
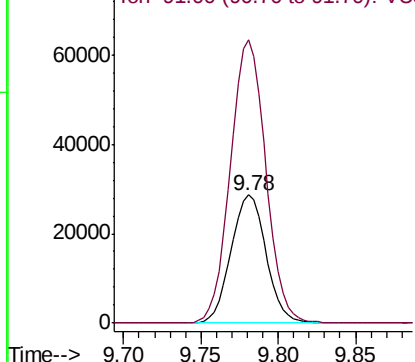
Tot Ion:106 Resp: 45216
Ion Ratio Lower Upper
106 100
91 222.1 111.7 334.9

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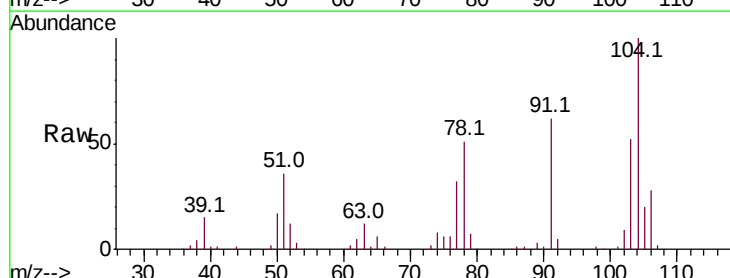


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

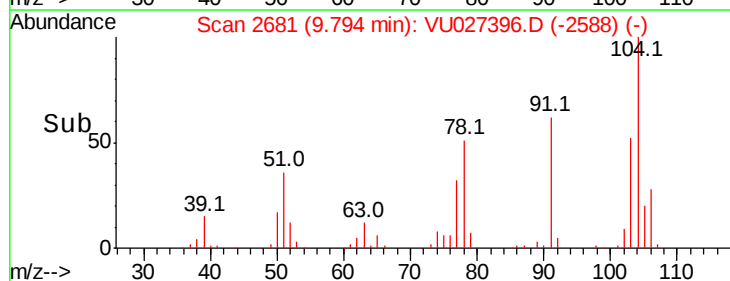
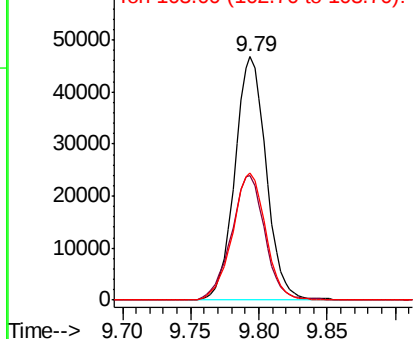


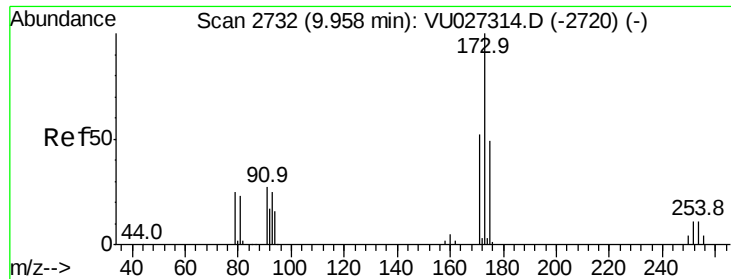
#70
Styrene
Concen: 18.732 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion:104 Resp: 74702
Ion Ratio Lower Upper
104 100
78 55.0 42.9 64.3
103 55.5 43.9 65.9



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





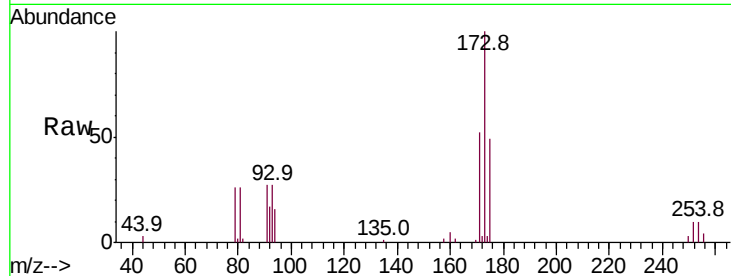
#71
Bromoform
Concen: 18.980 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

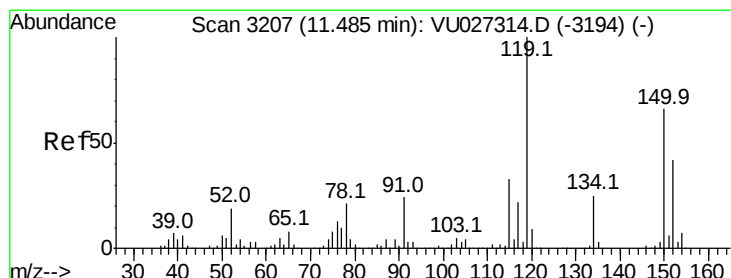
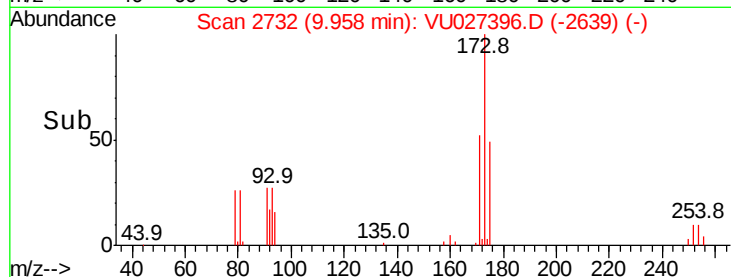
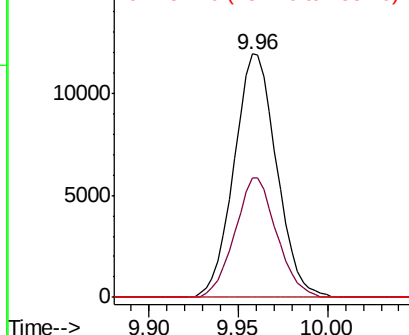
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	73.0
254	0.0	0.0	0.0

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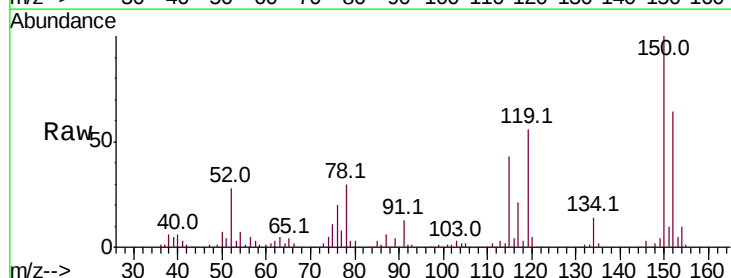


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

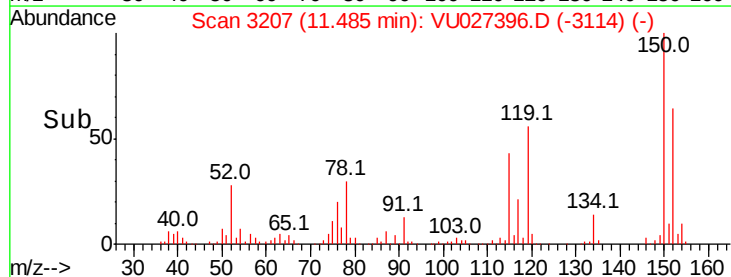
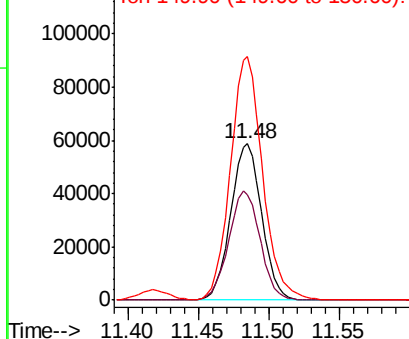


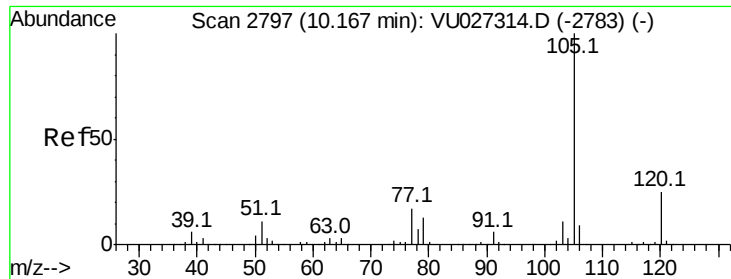
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	70.8	43.4	130.2
150	162.4	0.0	349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.772 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion:105 Resp: 122933

Ion Ratio Lower Upper

105 100

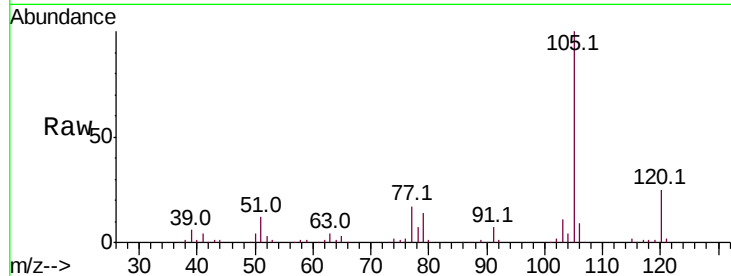
120 24.8 12.6 37.8

Manual Integrations

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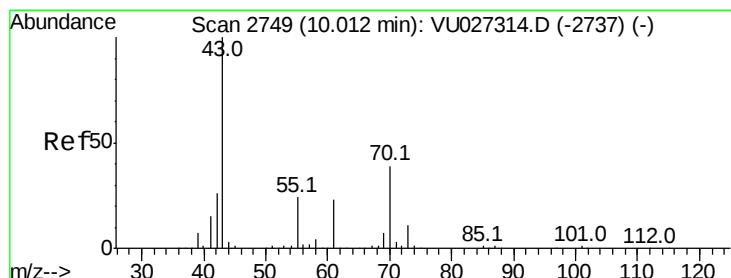
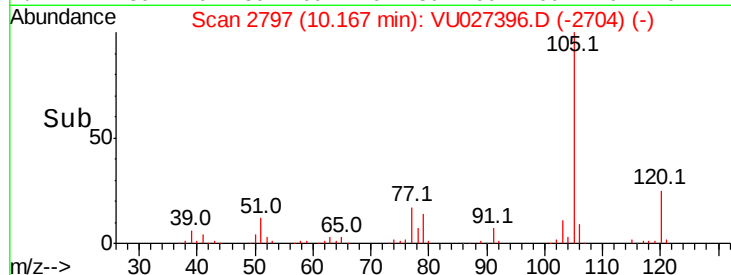
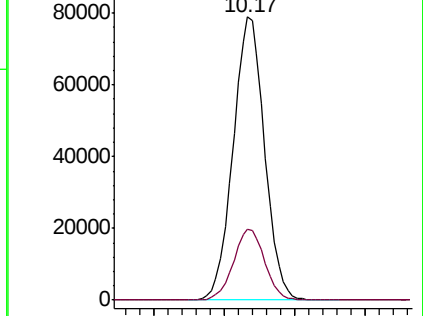
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.654 ug/l

RT: 10.02 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion: 43 Resp: 69934

Ion Ratio Lower Upper

43 100

70 38.0 31.3 46.9

55 24.8 19.0 28.6

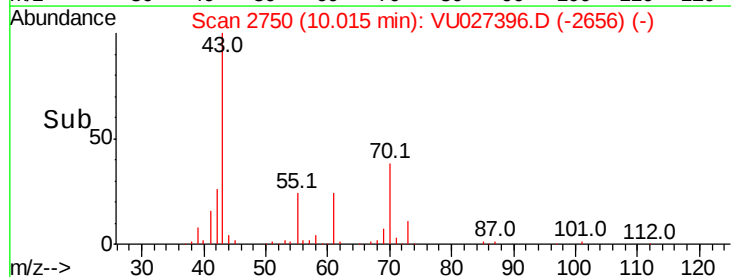
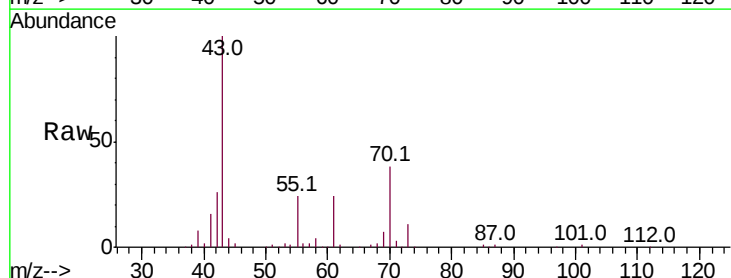
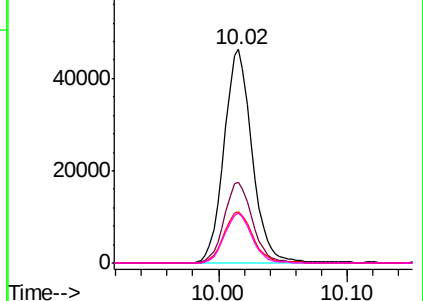
61 22.8 18.5 27.7

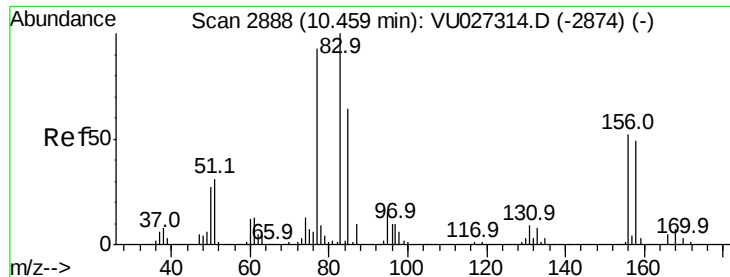
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.138 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

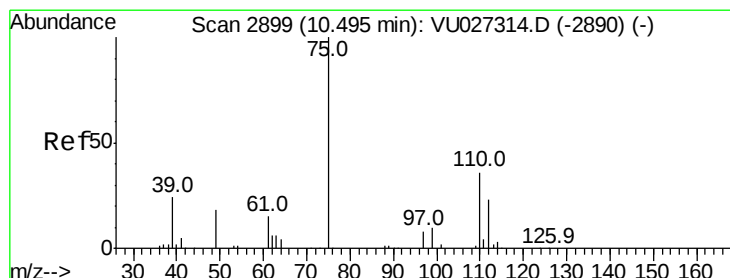
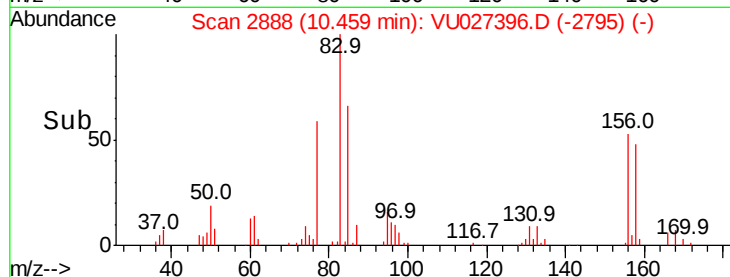
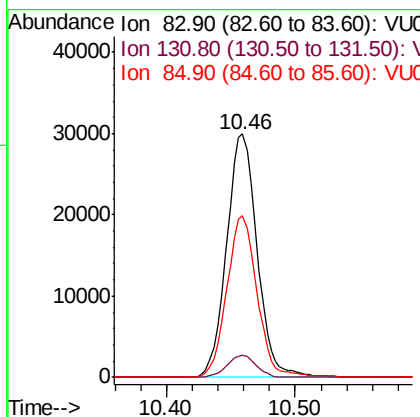
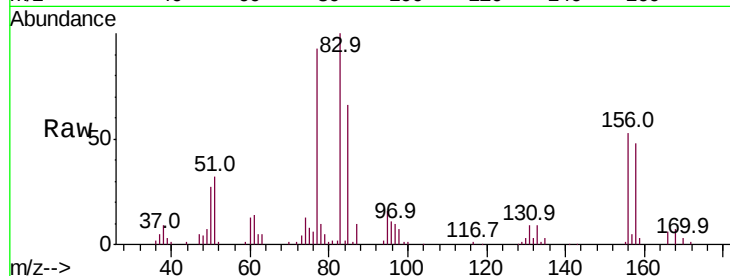
ClientSampleId :

VU1004MBSD02

Tot Ion:	83	Resp:	49213
Ion	Ratio	Lower	Upper
83	100		
131	8.6	4.4	13.2
85	66.0	32.0	96.0

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#76

1,2,3-Trichloropropane

Concen: 18.560 ug/l m

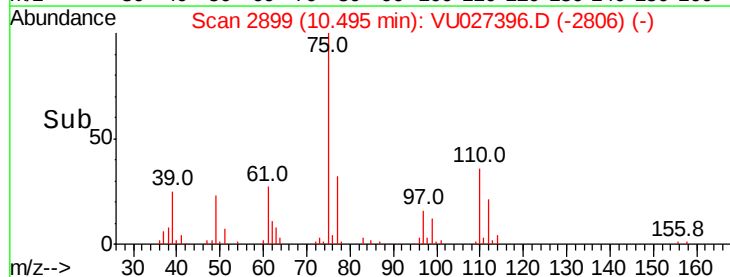
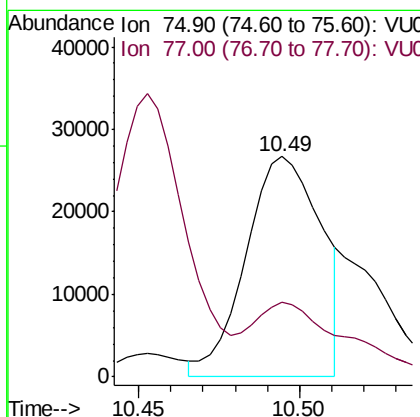
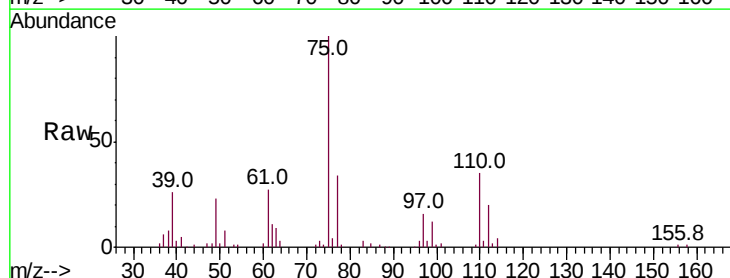
RT: 10.49 min Scan# 2899

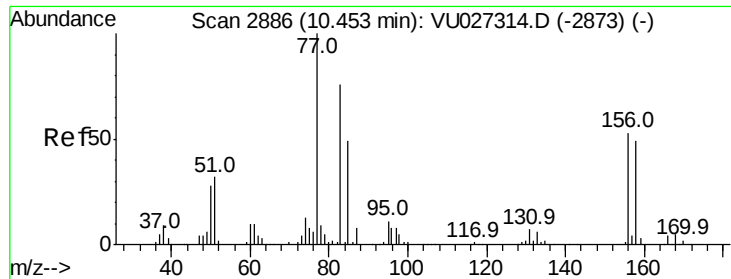
Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion:	75	Resp:	43383
Ion	Ratio	Lower	Upper
75	100		
77	41.4	20.3	60.9





#77

Bromobenzene

Concen: 19.281 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

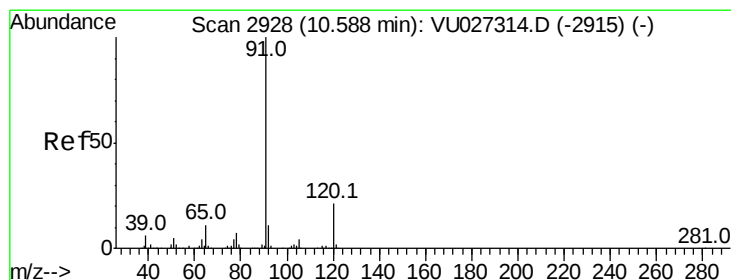
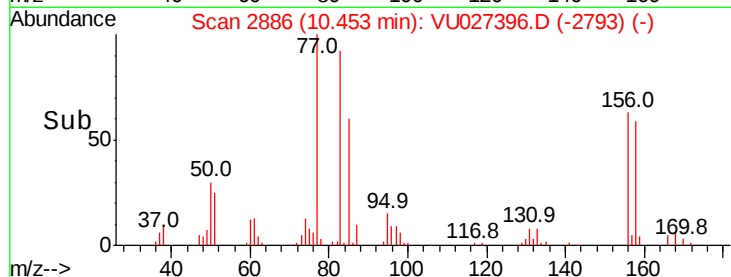
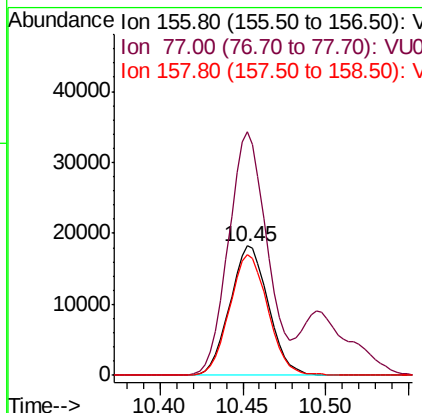
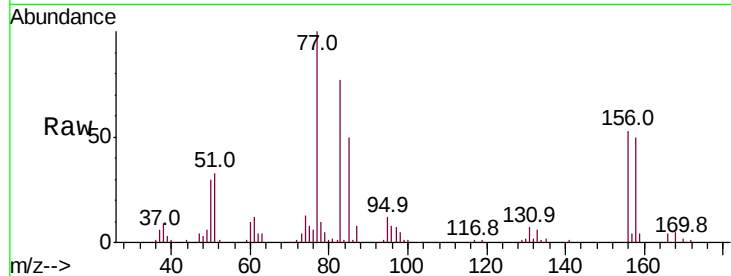
ClientSampleId :

VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
156	100		
77	188.5	94.8	284.4
158	93.1	47.4	142.3

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#78

n-propylbenzene

Concen: 19.509 ug/l

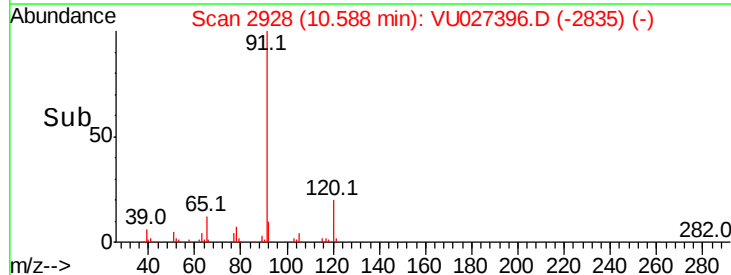
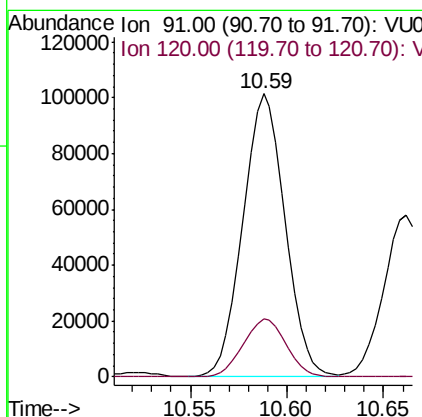
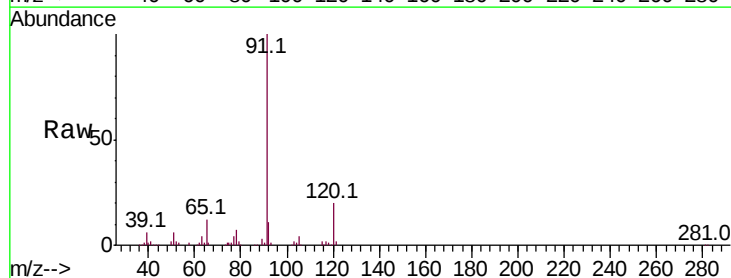
RT: 10.59 min Scan# 2928

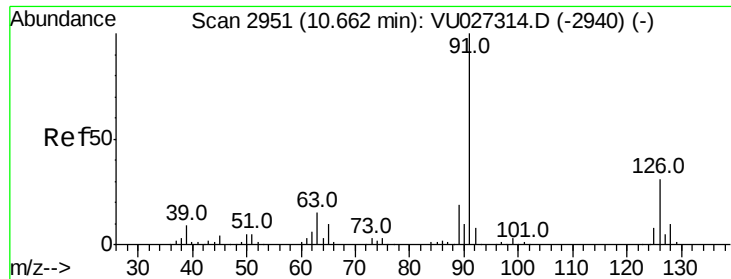
Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.6	31.8





#79

2-Chlorotoluene

Concen: 19.019 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion: 91 Resp: 90366

Ion Ratio Lower Upper

91 100

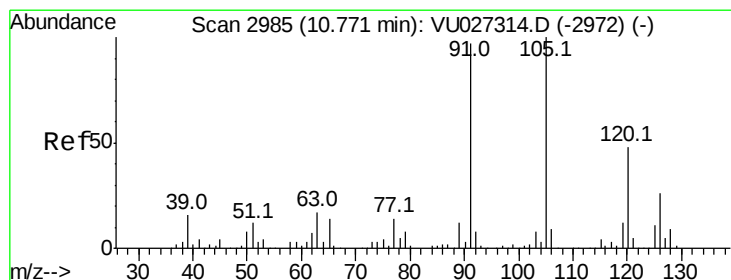
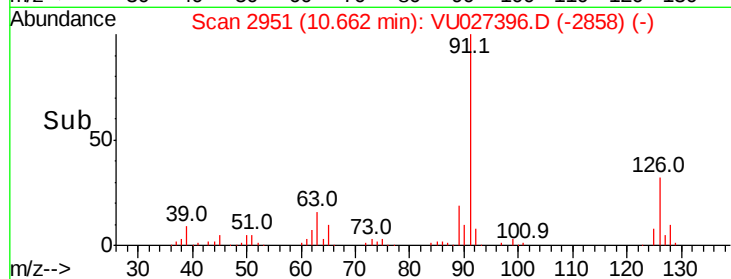
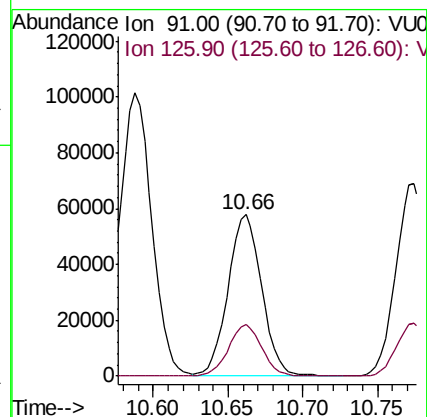
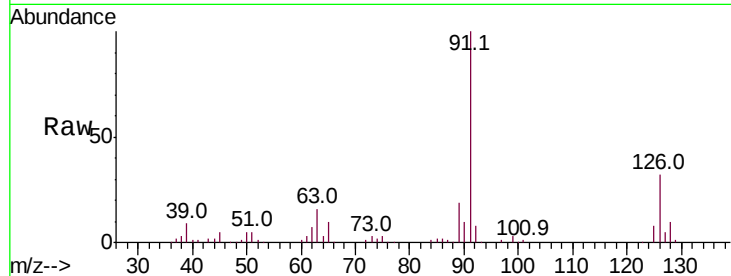
126 31.4 15.7 47.1

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#80

1,3,5-Trimethylbenzene

Concen: 19.573 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027396.D

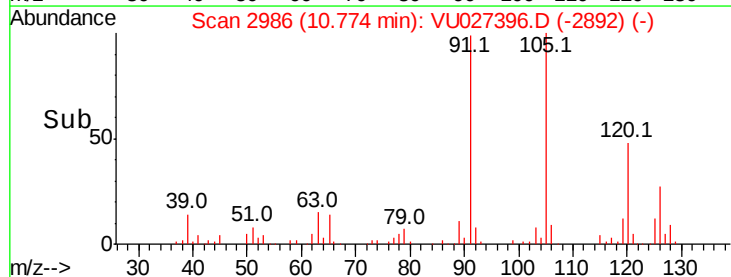
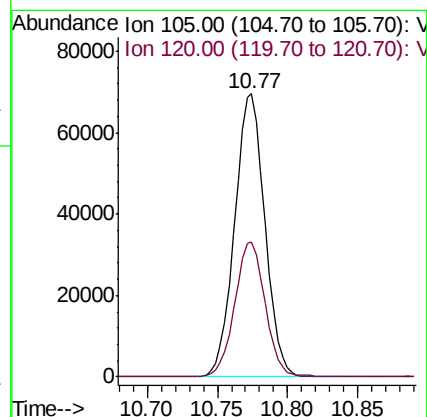
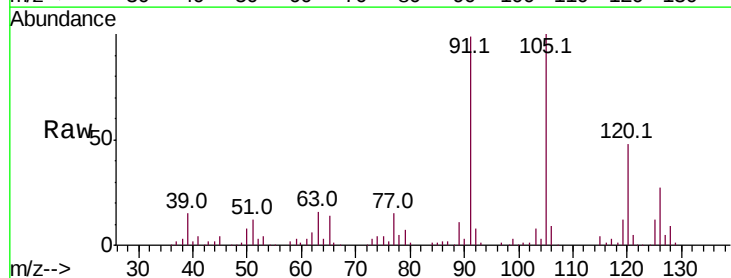
Acq: 04 Oct 2018 10:26

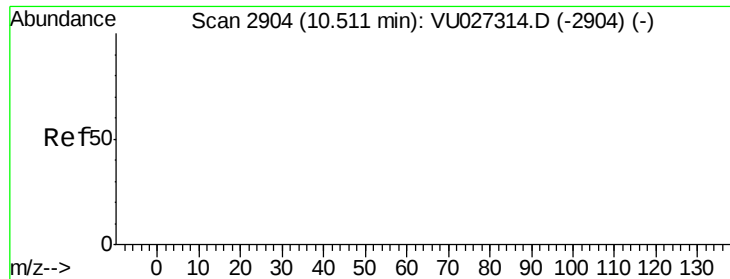
Tgt Ion: 105 Resp: 104357

Ion Ratio Lower Upper

105 100

120 47.8 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 18.028 ug/l m

RT: 10.51 min Scan# 2904

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

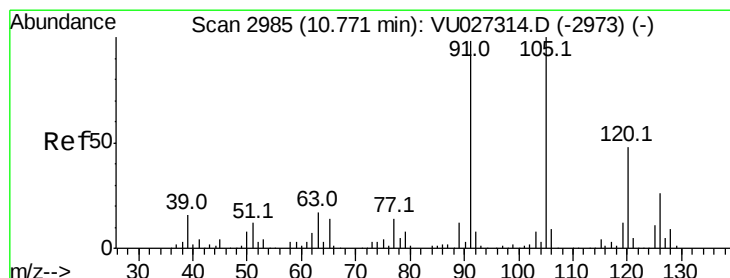
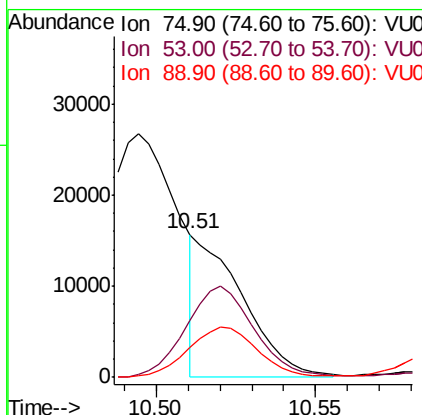
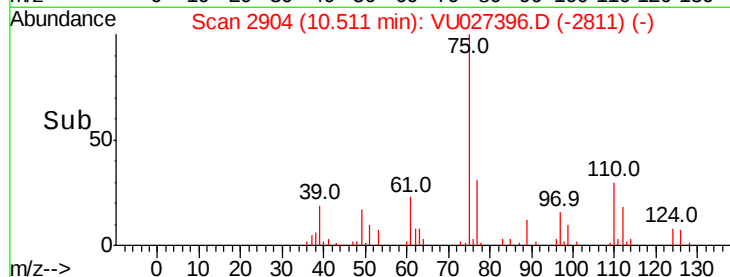
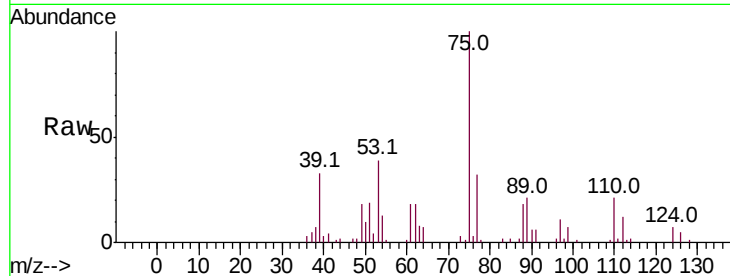
ClientSampleId :

VU1004MBSD02

Tot Ion:	75	Resp:	16101
Ion Ratio	Lower	Upper	
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

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#82

4-Chlorotoluene

Concen: 19.639 ug/l

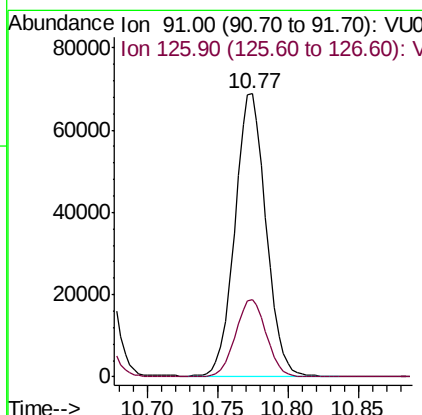
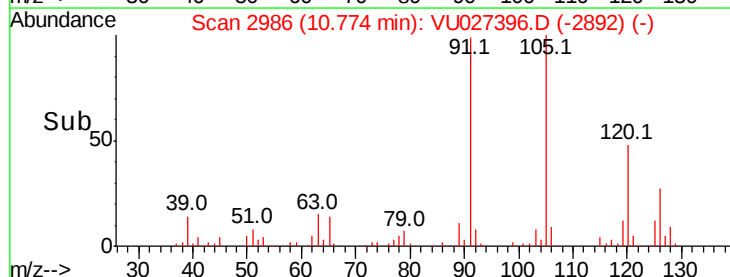
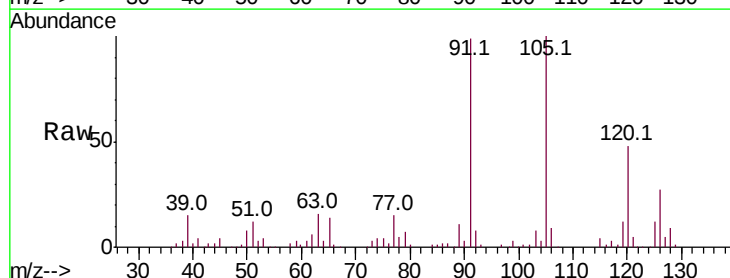
RT: 10.77 min Scan# 2986

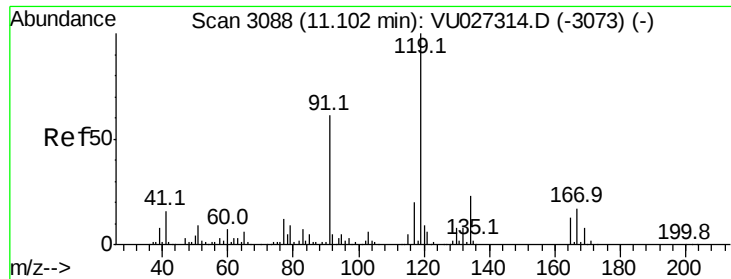
Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion:	91	Resp:	105891
Ion Ratio	Lower	Upper	
91	100		
126	27.3	13.6	40.8





#83

tert-Butylbenzene

Concen: 18.847 ug/l

RT: 11.10 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

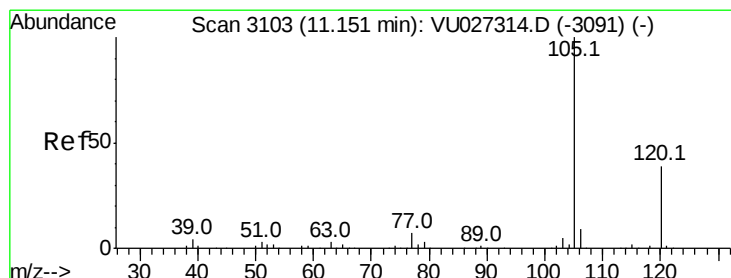
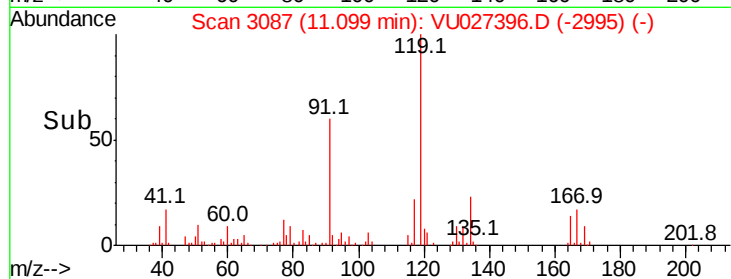
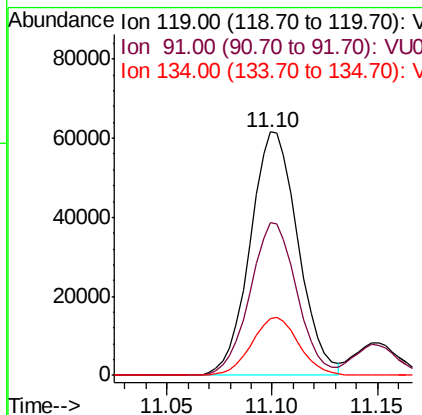
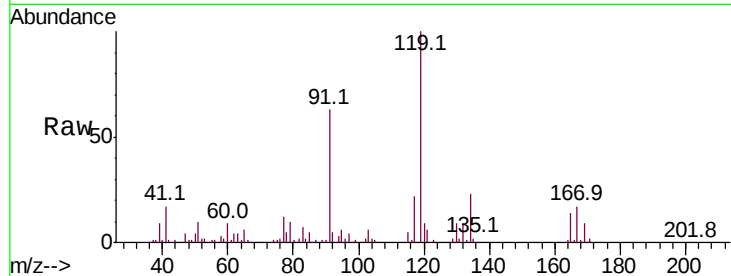
ClientSampleId :

VU1004MBSD02

Tot Ion:	119	Resp:	97143
Ion Ratio	Lower	Upper	
119	100		
91	61.8	30.3	91.0
134	23.5	11.5	34.4

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#84

1,2,4-Trimethylbenzene

Concen: 19.696 ug/l

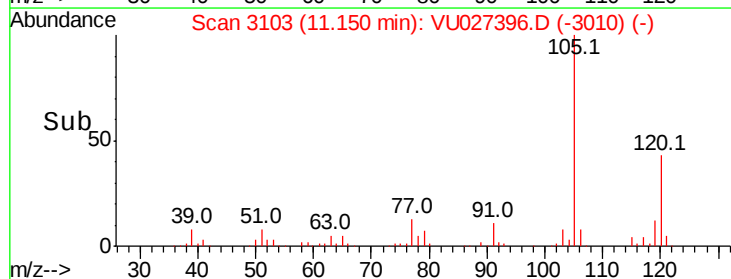
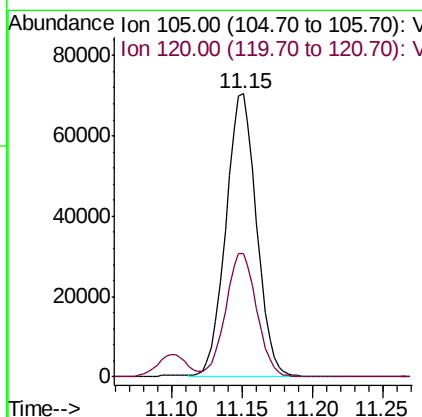
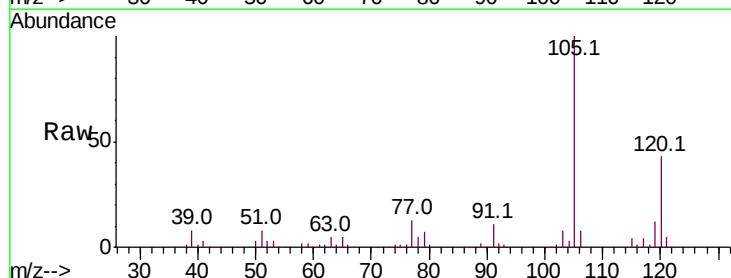
RT: 11.15 min Scan# 3103

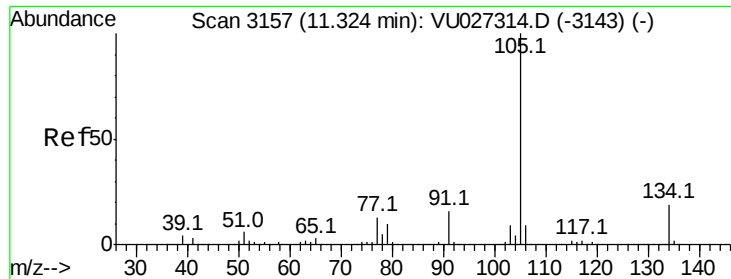
Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Tgt Ion:	105	Resp:	107270
Ion Ratio	Lower	Upper	
105	100		
120	44.2	22.1	66.5





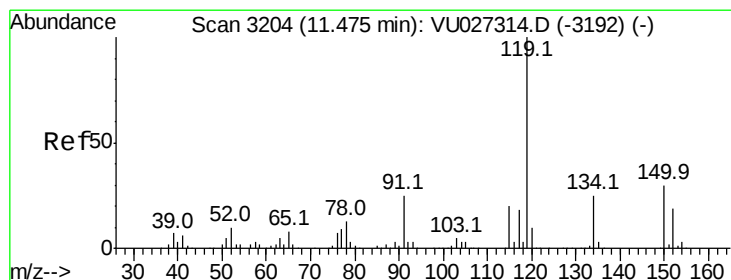
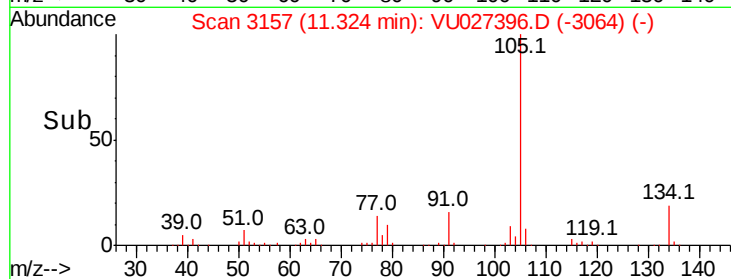
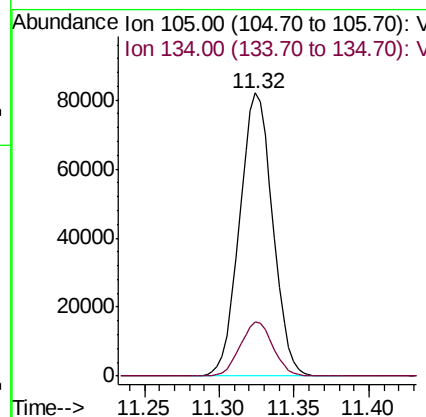
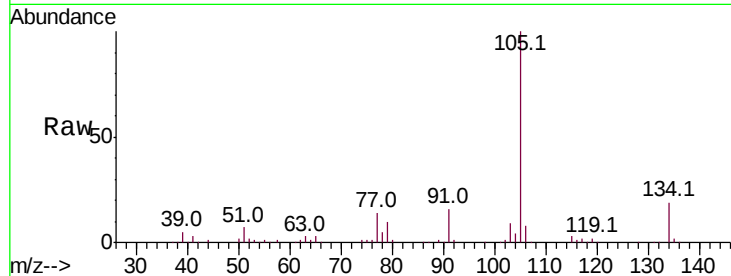
#85
 sec-Butylbenzene
 Concen: 19.452 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
105	100	126331		
134	18.9	9.6	28.6	

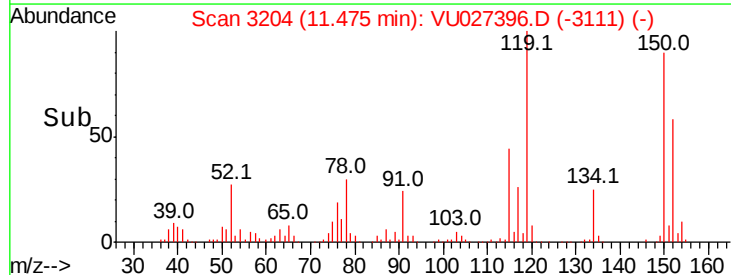
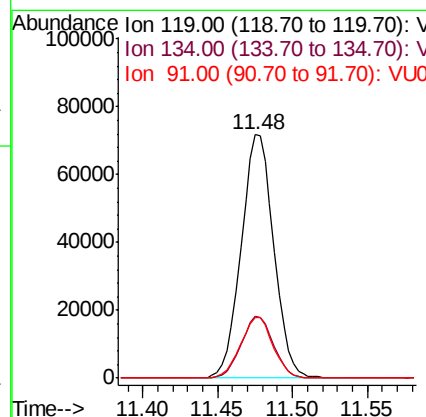
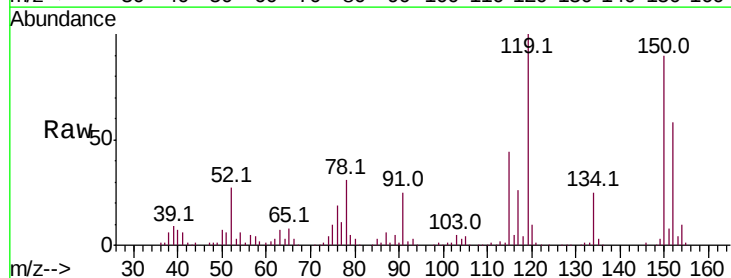
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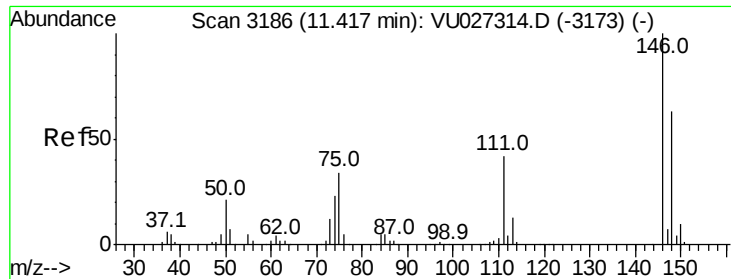
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#86
 p-Isopropyltoluene
 Concen: 19.532 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	108606		
134	25.2	12.7	38.1	
91	24.8	12.2	36.4	





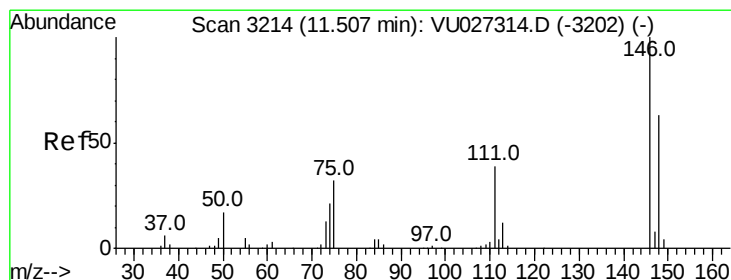
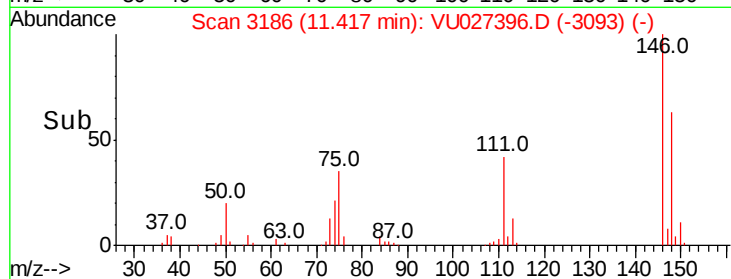
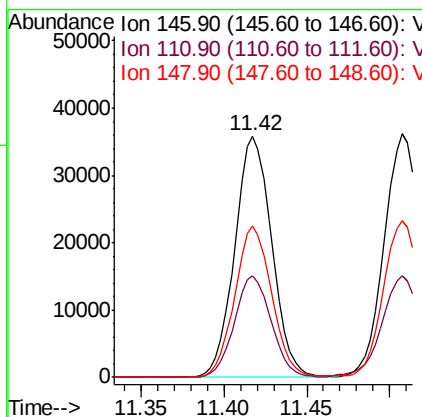
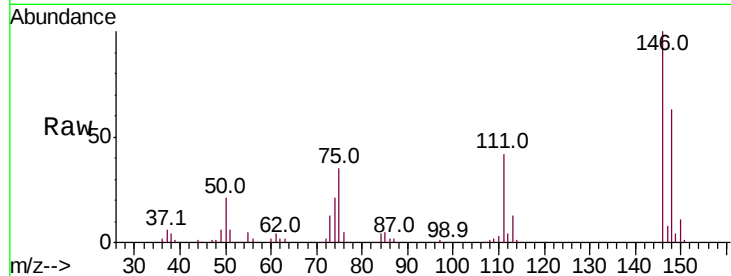
#87
 1,3-Dichlorobenzene
 Concen: 19.323 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.8	62.5
148	62.6	31.6	94.8

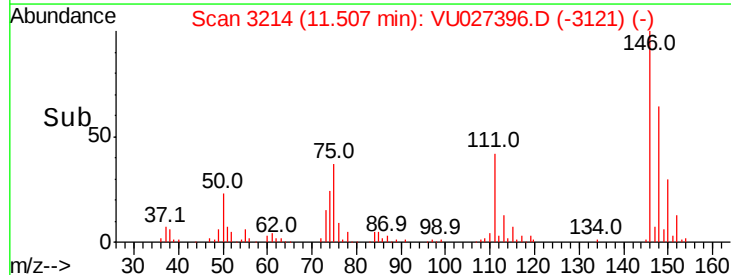
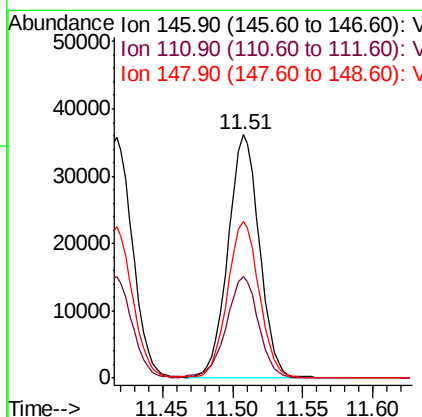
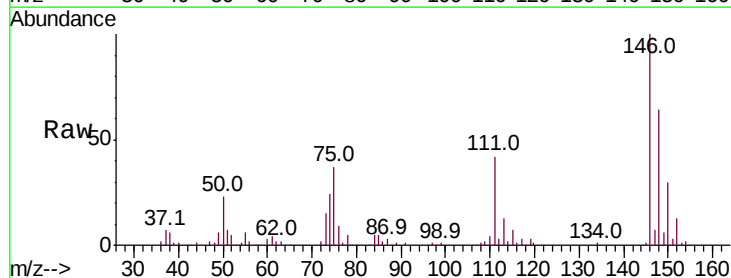
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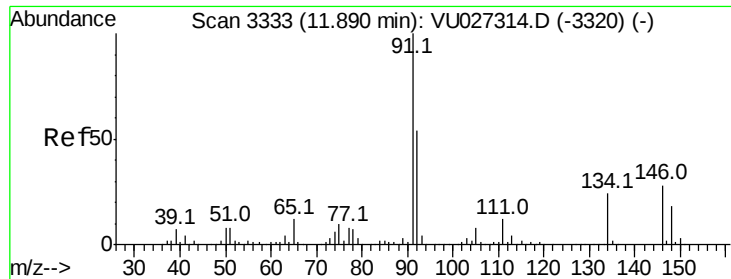
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#88
 1,4-Dichlorobenzene
 Concen: 19.119 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.4	61.2
148	65.3	31.9	95.5





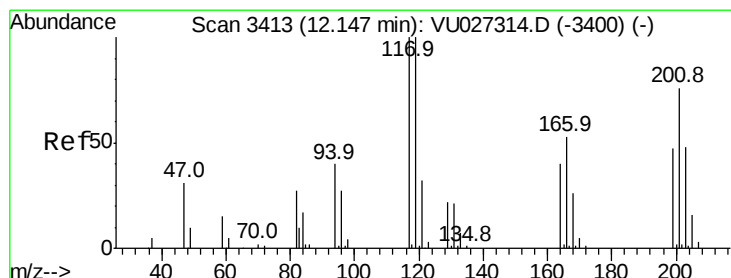
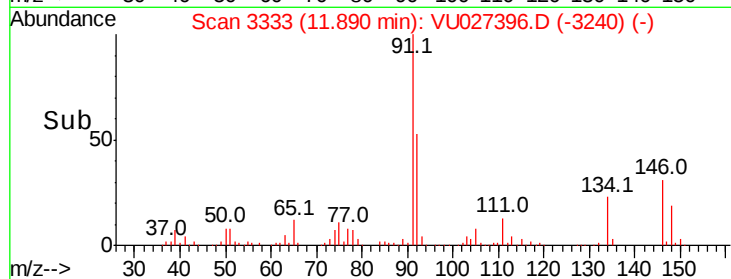
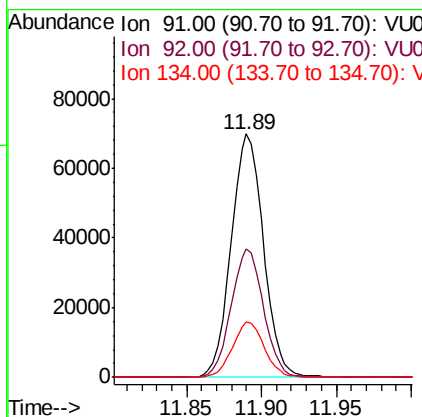
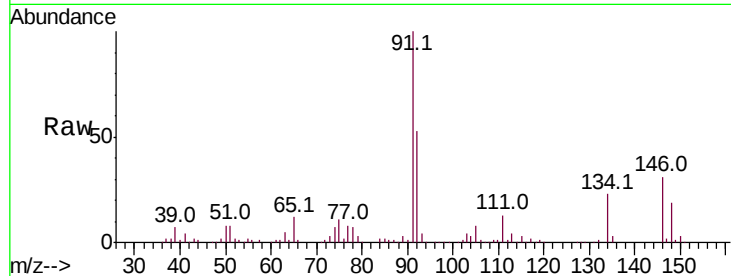
#89
n-Butylbenzene
Concen: 19.070 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	52.6	27.0	81.0	
134	22.5	11.7	35.1	

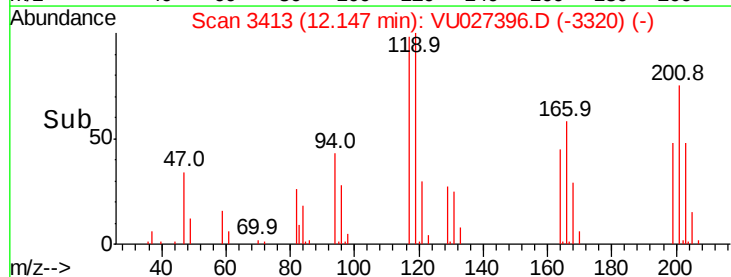
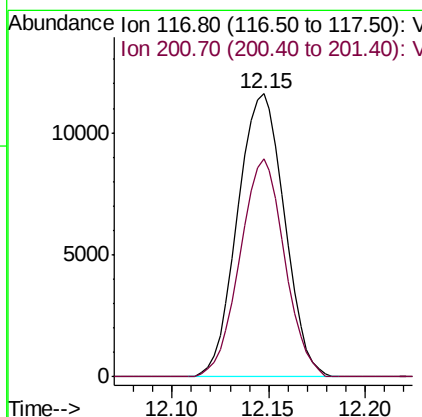
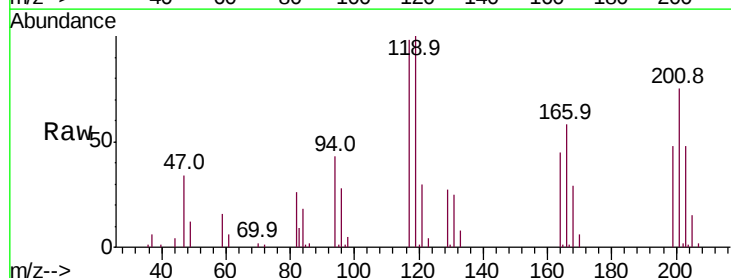
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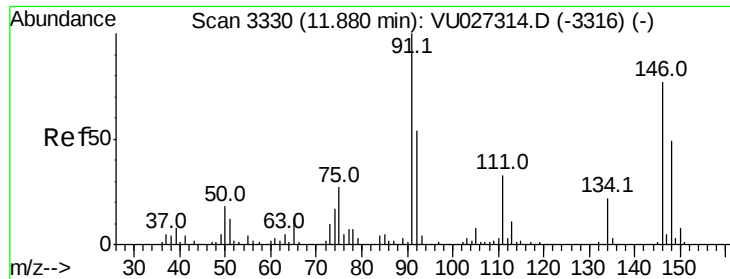
MMDadoda
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#90
Hexachloroethane
Concen: 18.674 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	73.3	37.9	113.6	





#91

1,2-Dichlorobenzene

Concen: 19.513 ug/l

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBSD02

Tot Ion:146 Resp: 54740

Ion Ratio Lower Upper

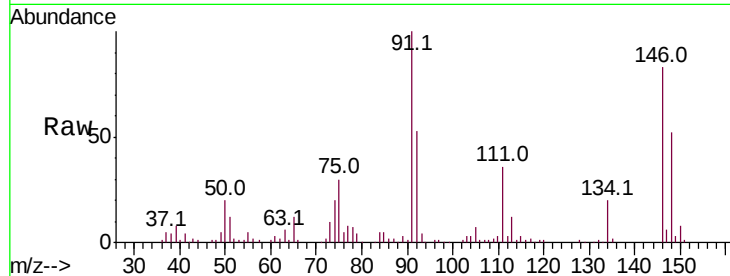
146 100

111 43.7 21.8 65.4

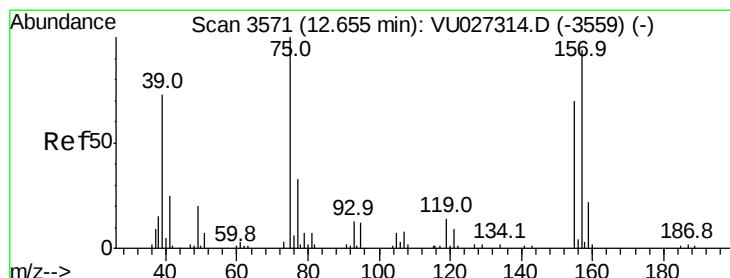
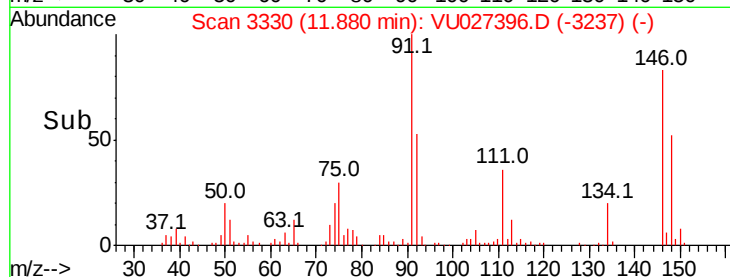
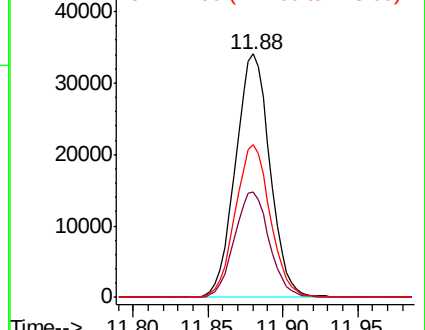
148 63.3 31.9 95.5

Manual Integrations
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.698 ug/l

RT: 12.66 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VU027396.D

Acq: 04 Oct 2018 10:26

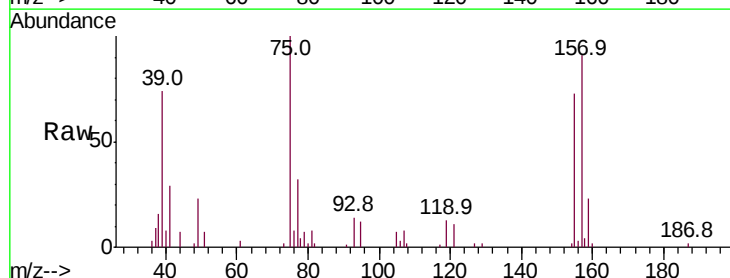
Tgt Ion: 75 Resp: 11226

Ion Ratio Lower Upper

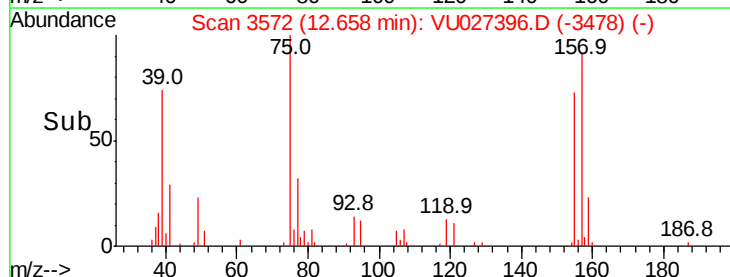
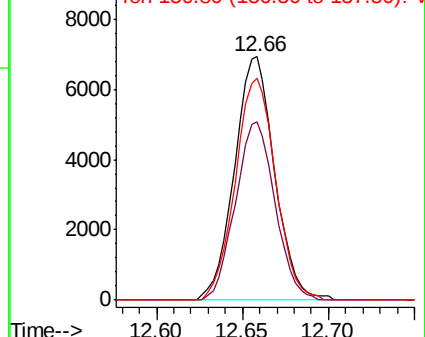
75 100

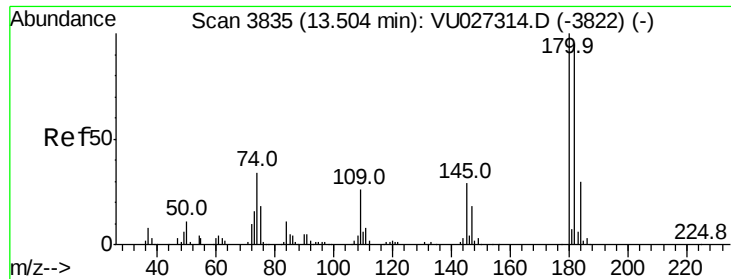
155 71.9 35.9 107.8

157 91.3 46.9 140.6



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





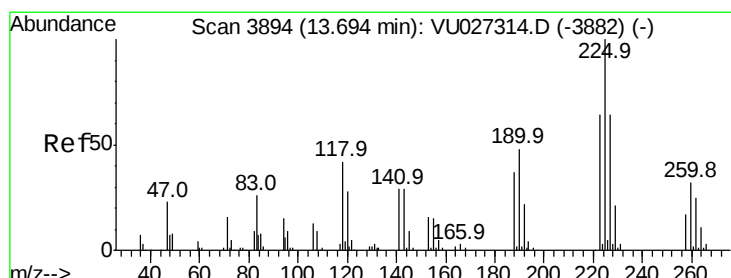
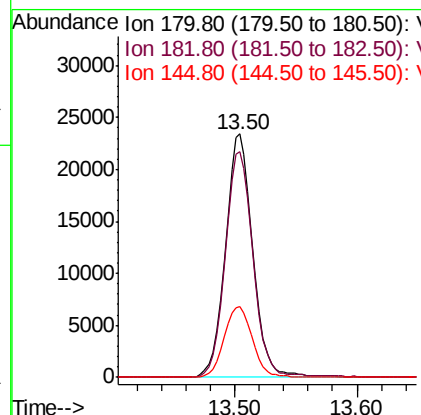
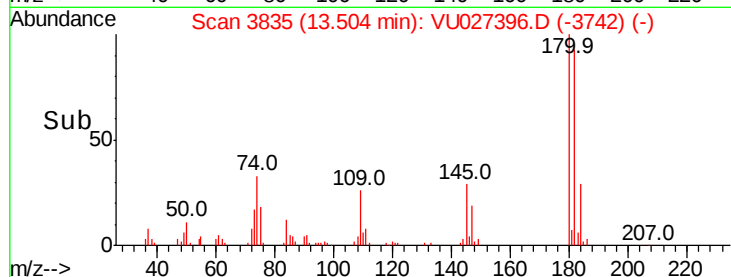
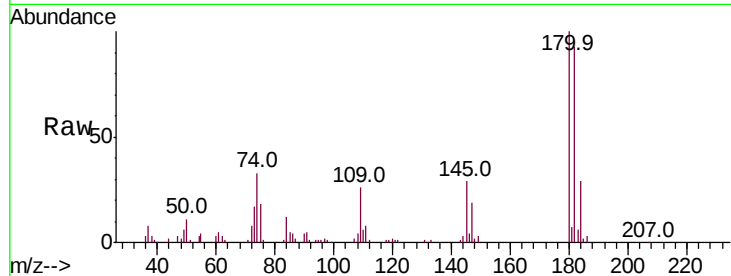
#93
 1,2,4-Trichlorobenzene
 Concen: 20.319 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.4	142.3
145	29.8	14.6	44.0

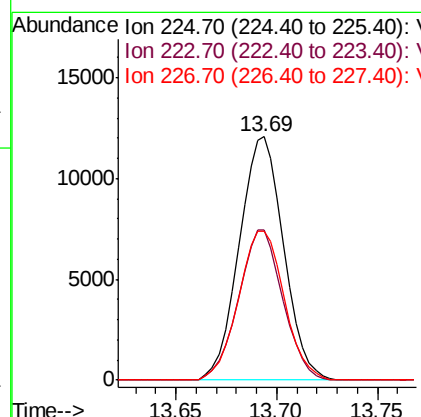
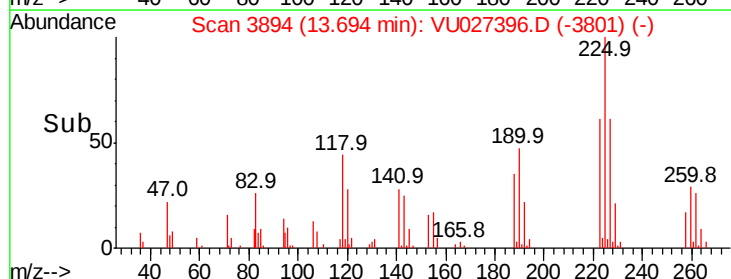
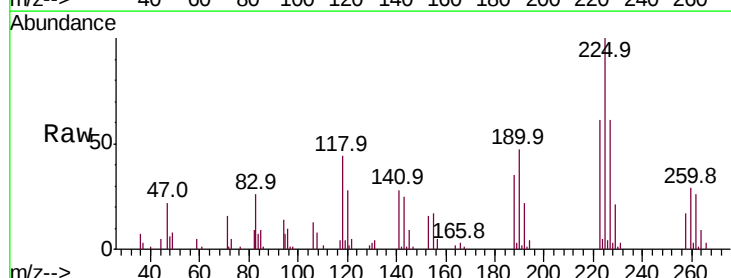
Manual Integrations
 APPROVED

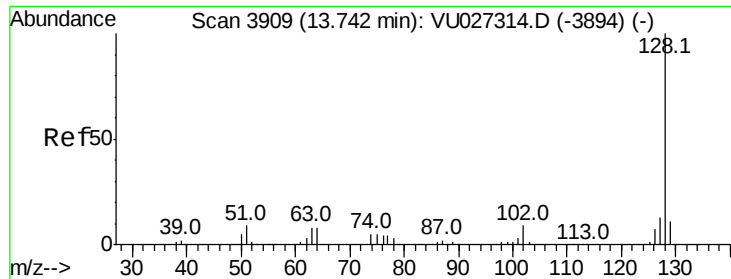
MMDadoda
 10/8/2018 1:52:30 PM



#94
 Hexachlorobutadiene
 Concen: 20.249 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. -0.00 min
 Lab File: VU027396.D
 Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.8	95.3
227	63.2	31.9	95.7





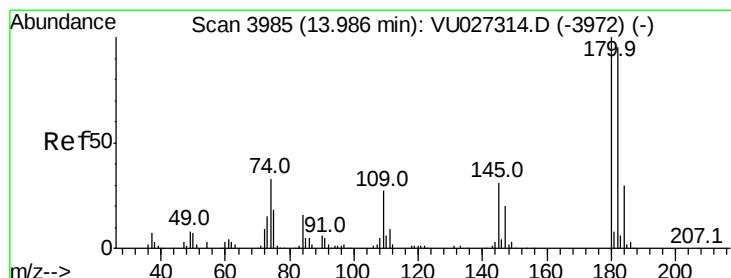
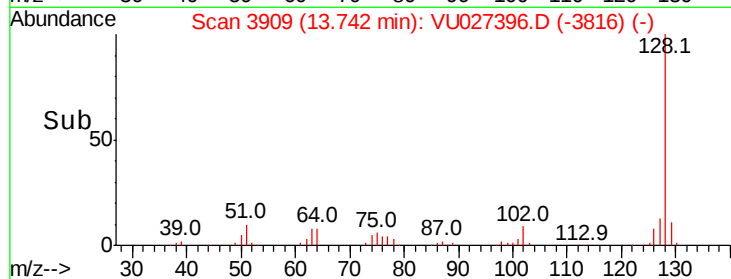
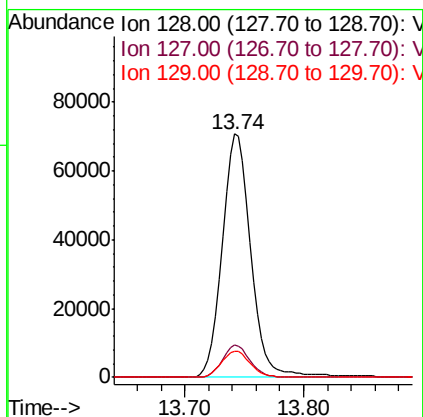
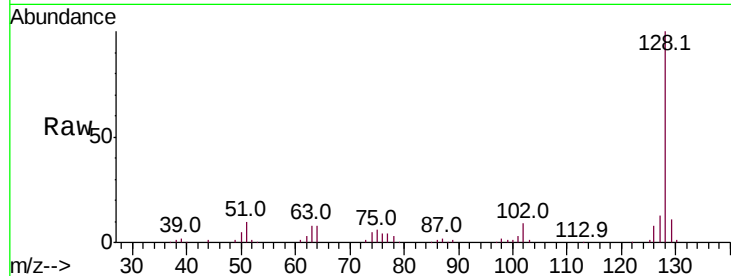
#95
Naphthalene
Concen: 18.354 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
10/8/2018 1:52:30 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.446 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. -0.00 min
Lab File: VU027396.D
Acq: 04 Oct 2018 10:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.4	142.2
145	31.0	15.9	47.7

