

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100418\
 Data File : VU027395.D
 Acq On : 04 Oct 2018 10:03
 Operator : MD/SY
 Sample : VU1004MBS02
 Misc : 5.00µg/10mL/100µL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Manual Integrations
 APPROVED

MMDadoda
 10/8/2018 1:52:29 PM

Quant Time: Oct 05 03:50:16 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	113293	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	193709	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	182441	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	93667	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	91554	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	
35) Dibromofluoromethane	4.88	113	63760	48.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.06%	
50) Toluene-d8	7.57	98	245905	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
62) 4-Bromofluorobenzene	10.31	95	91279	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	33347	20.416	ug/l	100
3) Chloromethane	1.33	50	40617	18.368	ug/l	99
4) Vinyl Chloride	1.41	62	40102	19.292	ug/l	97
5) Bromomethane	1.62	94	17401	19.346	ug/l	98
6) Chloroethane	1.70	64	24106	19.299	ug/l	98
7) Trichlorofluoromethane	1.89	101	42950	20.364	ug/l	100
8) Diethyl Ether	2.11	74	18509	19.050	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.29	101	24713	20.176	ug/l	100
10) Methyl Iodide	2.41	142	17640	22.045	ug/l	99
11) Tert butyl alcohol	2.83	59	37995	95.374	ug/l	100
12) 1,1-Dichloroethene	2.29	96	22965	19.190	ug/l	98
13) Acrolein	2.20	56	16612	49.695	ug/l	96
14) Allyl chloride	2.59	41	52485	18.469	ug/l	100
15) Acrylonitrile	2.94	53	104016	100.317	ug/l	98
16) Acetone	2.32	43	100062	89.533	ug/l	99
17) Carbon Disulfide	2.48	76	76270	17.671	ug/l	100
18) Methyl Acetate	2.62	43	53239	20.882	ug/l	98
19) Methyl tert-butyl Ether	3.00	73	92161	19.220	ug/l	98
20) Methylene Chloride	2.70	84	29651	19.047	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	26158	19.469	ug/l	96
22) Diisopropyl ether	3.58	45	113864	19.713	ug/l	94
23) Vinyl Acetate	3.53	43	478890	94.939	ug/l	100
24) 1,1-Dichloroethane	3.45	63	58374	19.659	ug/l	100
25) 2-Butanone	4.26	43	147704	96.917	ug/l	99
26) 2,2-Dichloropropane	4.23	77	47556	19.491	ug/l	98
27) cis-1,2-Dichloroethene	4.23	96	29334	19.092	ug/l	98
28) Bromochloromethane	4.55	49	29112	20.322	ug/l	98
29) Tetrahydrofuran	4.64	42	94414	98.301	ug/l	99
30) Chloroform	4.68	83	53053	20.110	ug/l	99
31) Cyclohexane	5.00	56	56483	18.466	ug/l	97
32) 1,1,1-Trichloroethane	4.92	97	43922	19.768	ug/l	99
36) 1,1-Dichloropropene	5.14	75	40173	19.101	ug/l	99
37) Ethyl Acetate	4.38	43	51994	19.128	ug/l	99
38) Carbon Tetrachloride	5.14	117	36619	19.274	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	45628	18.559	ug/l	98
40) Benzene	5.39	78	120187	19.618	ug/l	100
41) Methacrylonitrile	4.55	41	29253	19.040	ug/l	98
42) 1,2-Dichloroethane	5.41	62	45633	20.066	ug/l	100
43) Isopropyl Acetate	5.55	43	82241	19.481	ug/l	98
44) Trichloroethene	6.19	130	26070	19.084	ug/l	98
45) 1,2-Dichloropropane	6.43	63	34593	19.576	ug/l	98
46) Dibromomethane	6.56	93	20565	20.606	ug/l	96
47) Bromodichloromethane	6.76	83	40872	19.736	ug/l	98
48) Methyl methacrylate	6.62	41	40213	19.155	ug/l	98
49) 1,4-Dioxane	6.61	88	15670	433.810	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	268878	98.012	ug/l	99
52) Toluene	7.64	92	71034	19.589	ug/l	98
53) t-1,3-Dichloropropene	7.88	75	46469	19.138	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	51004	19.540	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	28446	19.785	ug/l	97
56) Ethyl methacrylate	8.02	69	44535	17.712	ug/l	100
57) 1,3-Dichloropropane	8.24	76	53599	19.204	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	132061	92.698	ug/l	100
59) 2-Hexanone	8.36	43	205874	96.743	ug/l	99
60) Dibromochloromethane	8.48	129	27874	19.330	ug/l	100
61) 1,2-Dibromoethane	8.59	107	29457	19.270	ug/l	99
64) Tetrachloroethene	8.23	164	21758	19.158	ug/l	98
65) Chlorobenzene	9.12	112	74082	19.291	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	25148	18.969	ug/l	100
67) Ethyl Benzene	9.25	91	128278	18.854	ug/l	99
68) m/p-Xylenes	9.38	106	96728	38.866	ug/l	99
69) o-Xylene	9.78	106	45314	19.160	ug/l	99
70) Styrene	9.79	104	76107	18.723	ug/l	99
71) Bromoform	9.96	173	20194	18.933	ug/l #	96
73) Isopropylbenzene	10.17	105	124713	18.332	ug/l	100
74) N-amyl acetate	10.02	43	68666	17.631	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	48948	18.324	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	44490m	18.323	ug/l	
77) Bromobenzene	10.45	156	29377	18.581	ug/l	99
78) n-propylbenzene	10.59	91	155330	19.002	ug/l	100
79) 2-Chlorotoluene	10.66	91	91270	18.492	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	105084	18.973	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	15795m	17.025	ug/l	
82) 4-Chlorotoluene	10.77	91	108386	19.351	ug/l	99
83) tert-Butylbenzene	11.10	119	98175	18.336	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	108507	19.179	ug/l	100
85) sec-Butylbenzene	11.32	105	128310	19.019	ug/l	99
86) p-Isopropyltoluene	11.48	119	109843	19.016	ug/l	98
87) 1,3-Dichlorobenzene	11.42	146	55658	18.591	ug/l	100
88) 1,4-Dichlorobenzene	11.51	146	57180	18.691	ug/l	98
89) n-Butylbenzene	11.89	91	106595	18.661	ug/l	99
90) Hexachloroethane	12.15	117	19847	18.229	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	55152	18.926	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	10466	17.679	ug/l	96

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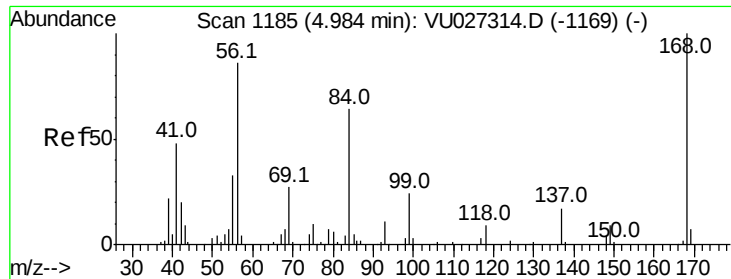
Manual Integrations
APPROVED

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Quant Time: Oct 05 03:50:16 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	37400	19.835	ug/l	99
94) Hexachlorobutadiene	13.69	225	18722	19.652	ug/l	99
95) Naphthalene	13.74	128	116516	17.567	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	39137	19.923	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: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion:168 Resp: 113293

Ion Ratio Lower Upper

168 100

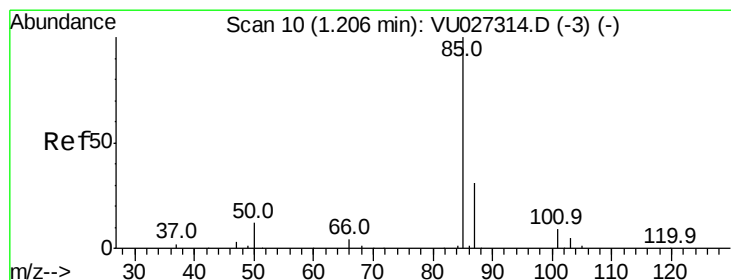
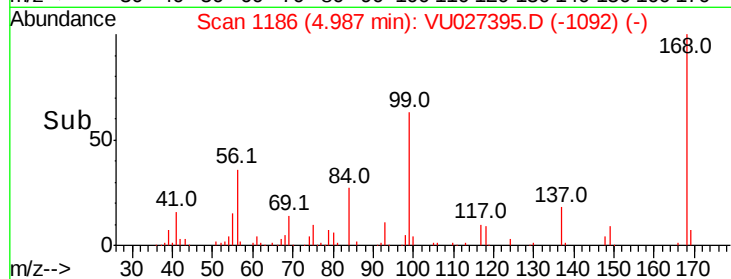
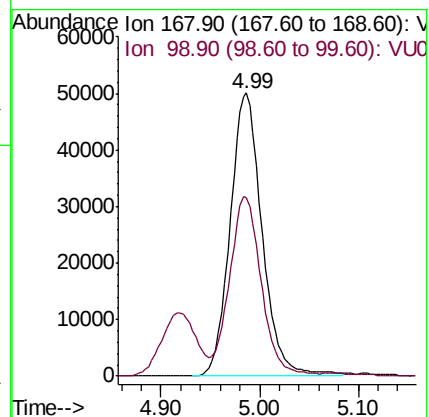
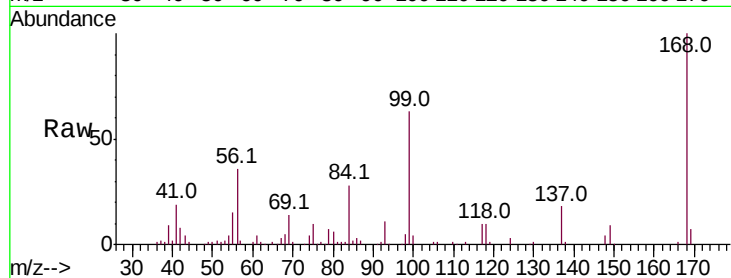
99 62.2 50.8 76.2

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 20.416 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU027395.D

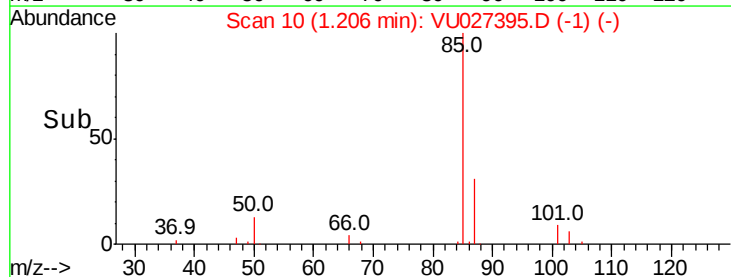
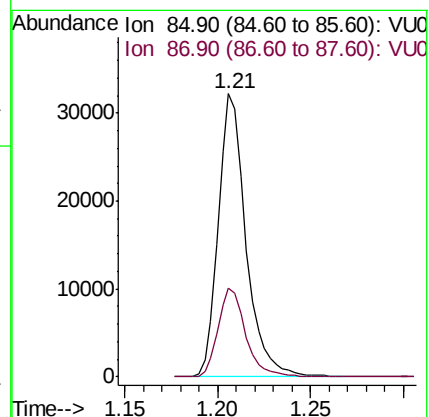
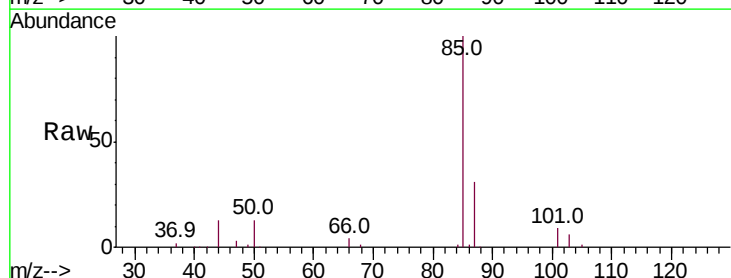
Acq: 04 Oct 2018 10:03

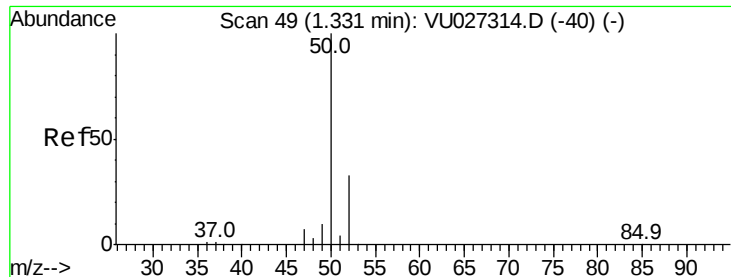
Tgt Ion: 85 Resp: 33347

Ion Ratio Lower Upper

85 100

87 31.2 15.7 47.1





#3

Chloromethane

Concen: 18.368 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 50 Resp: 40617

Ion Ratio Lower Upper

50 100

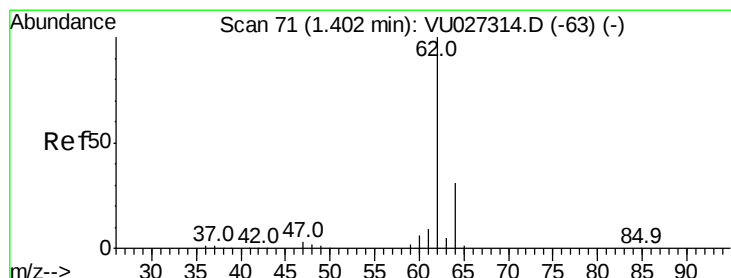
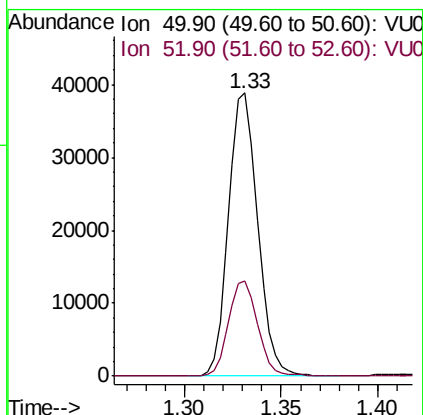
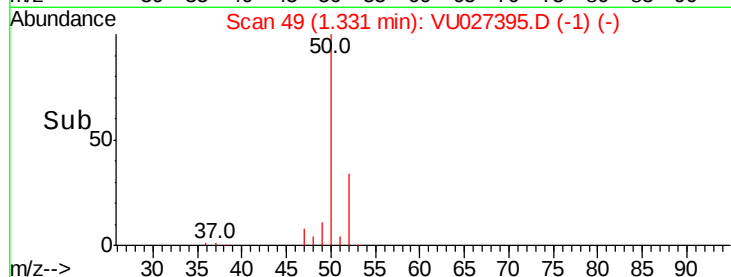
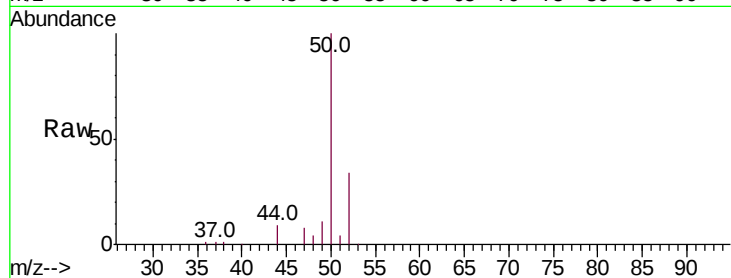
52 33.6 26.5 39.7

Manual Integrations

APPROVED

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#4

Vinyl Chloride

Concen: 19.292 ug/l

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027395.D

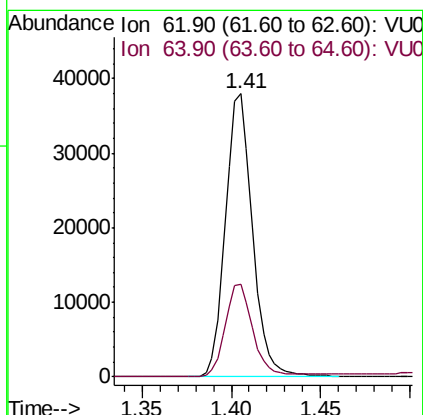
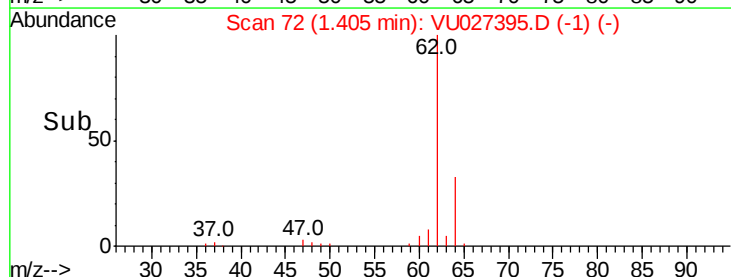
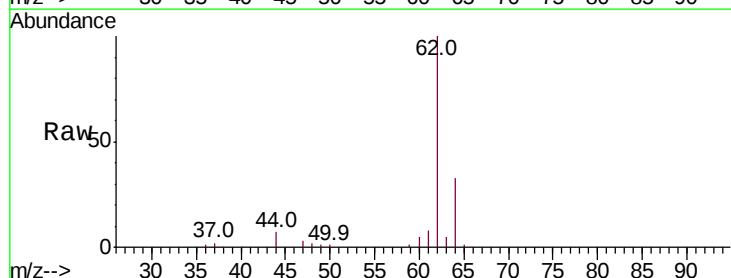
Acq: 04 Oct 2018 10:03

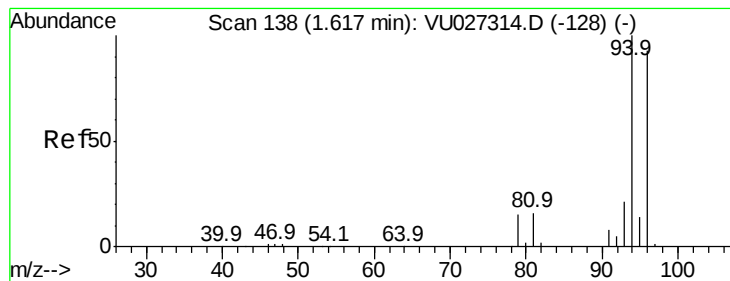
Tgt Ion: 62 Resp: 40102

Ion Ratio Lower Upper

62 100

64 32.7 24.9 37.3





#5

Bromomethane

Concen: 19.346 ug/l

RT: 1.62 min Scan# 140

Delta R.T. 0.01 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 94 Resp: 17401

Ion Ratio Lower Upper

94 100

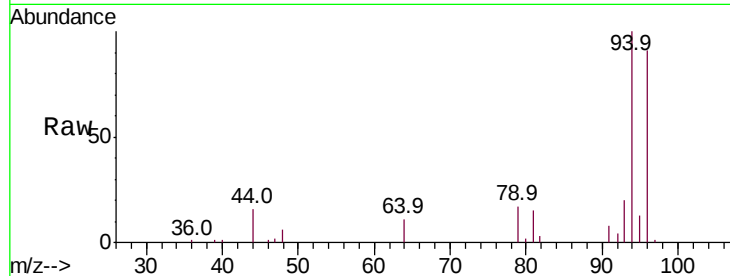
96 91.1 74.6 111.8

Manual Integrations

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10/8/2018 1:52:29 PM



Abundance Ion 93.90 (93.60 to 94.60): VU027314.D (-128) (-)

Ion 95.90 (95.60 to 96.60): VU027395.D (-45) (-)

15000

10000

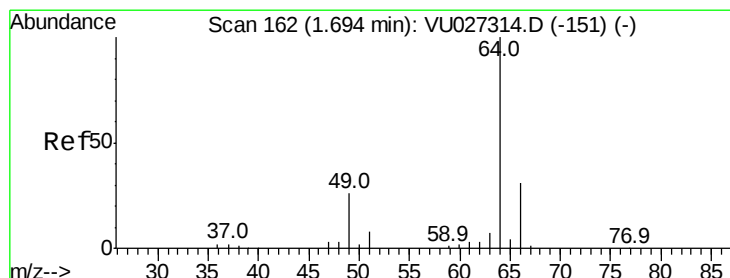
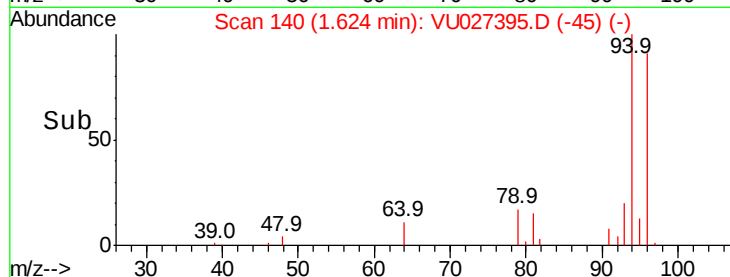
5000

0

1.62

1.55 1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: 19.299 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU027395.D

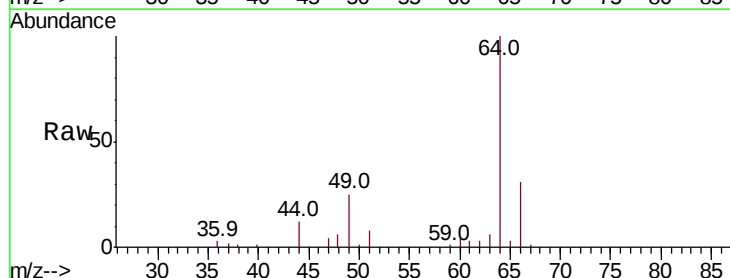
Acq: 04 Oct 2018 10:03

Tgt Ion: 64 Resp: 24106

Ion Ratio Lower Upper

64 100

66 31.8 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VU027314.D (-151) (-)

Ion 65.90 (65.60 to 66.60): VU027395.D (-69) (-)

20000

15000

10000

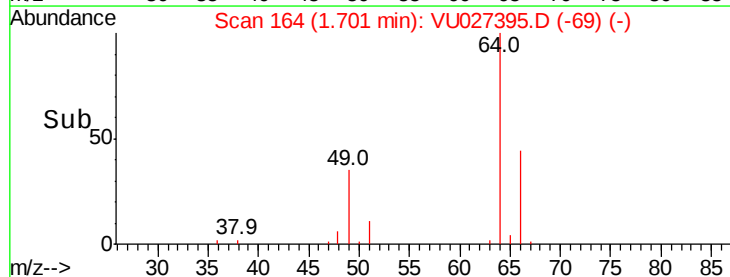
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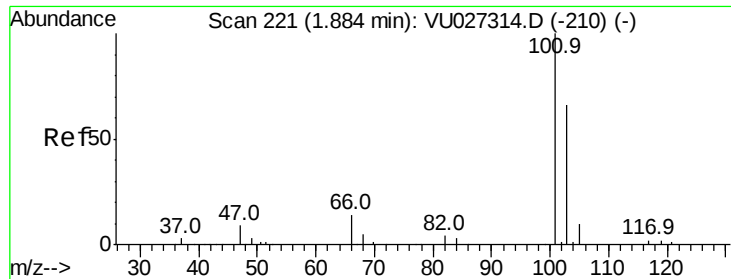
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1.70

1.65 1.70 1.75 1.80

Time-->





#7

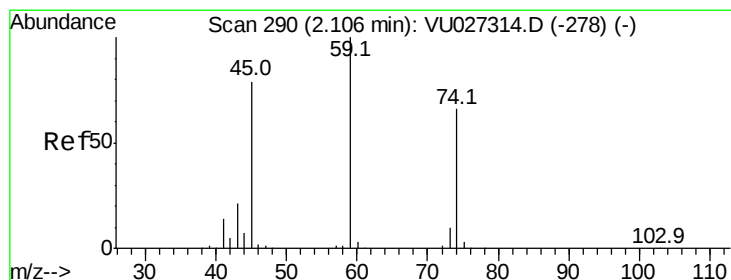
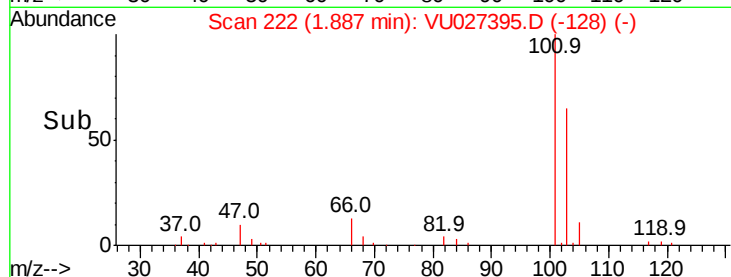
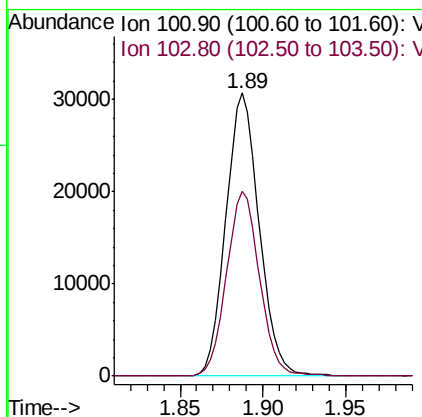
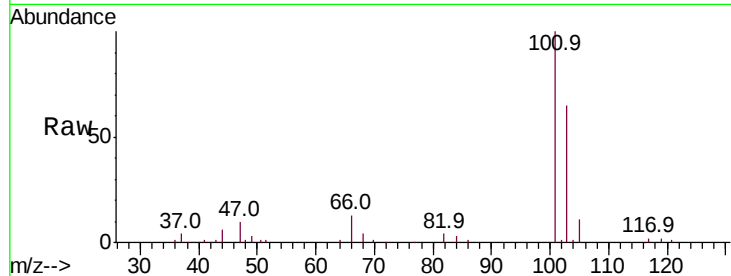
Trichlorofluoromethane
Concen: 20.364 ug/l
RT: 1.89 min Scan# 222
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion:101 Resp: 42950
Ion Ratio Lower Upper
101 100
103 65.5 52.6 78.8

Manual Integrations
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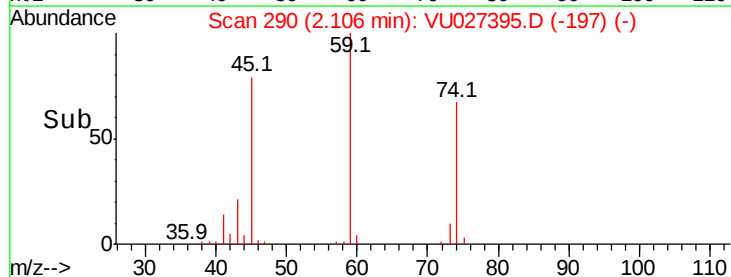
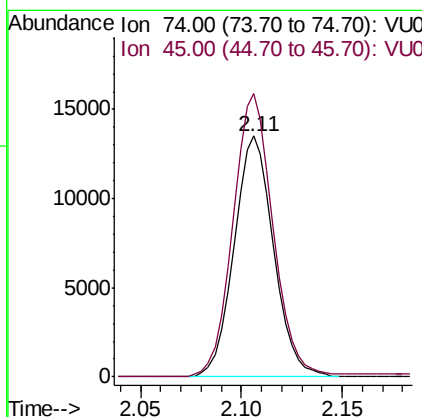
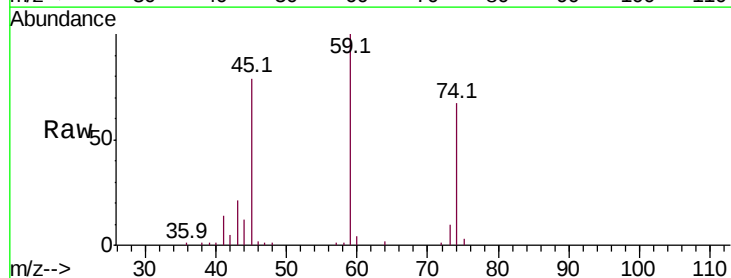
MMDadoda
10/8/2018 1:52:29 PM

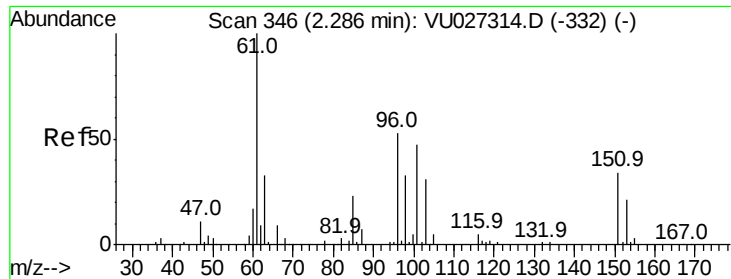


#8

Diethyl Ether
Concen: 19.050 ug/l
RT: 2.11 min Scan# 290
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion: 74 Resp: 18509
Ion Ratio Lower Upper
74 100
45 120.4 60.4 181.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.176 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

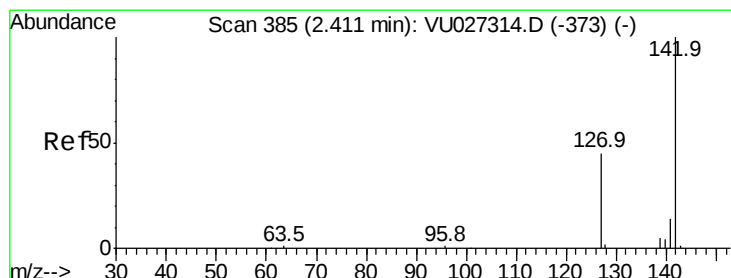
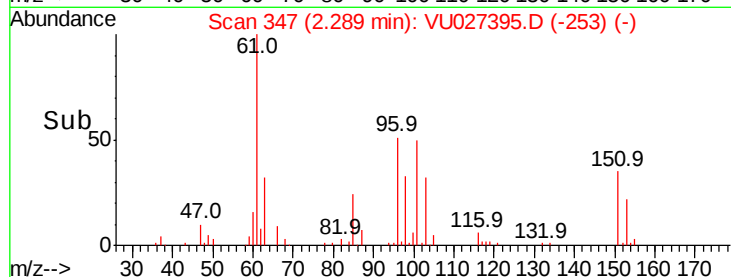
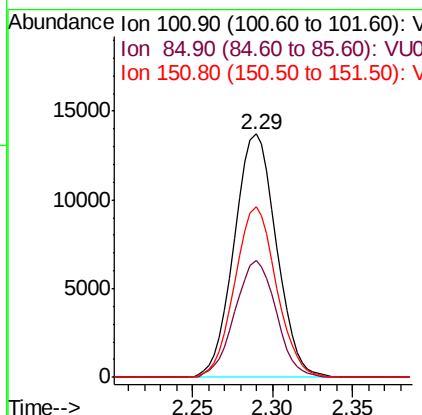
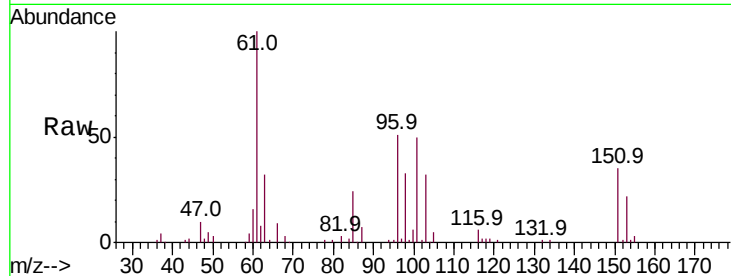
ClientSampleId :

VU1004MBS02

Tot Ion:	101	Resp:	24713
Ion Ratio	Lower	Upper	
101	100		
85	46.9	37.5	56.3
151	69.0	55.6	83.4

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#10

Methyl Iodide

Concen: 22.045 ug/l

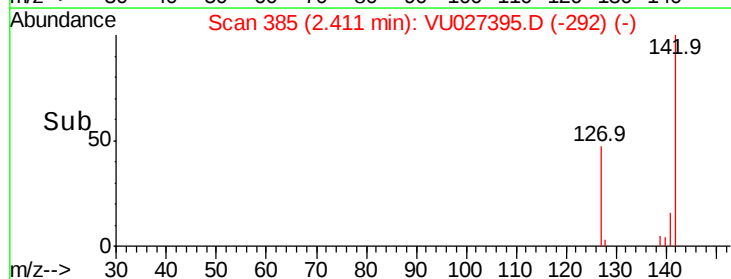
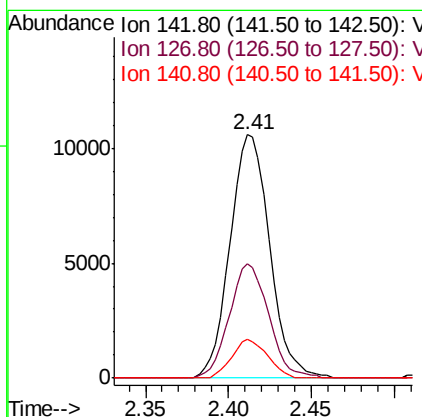
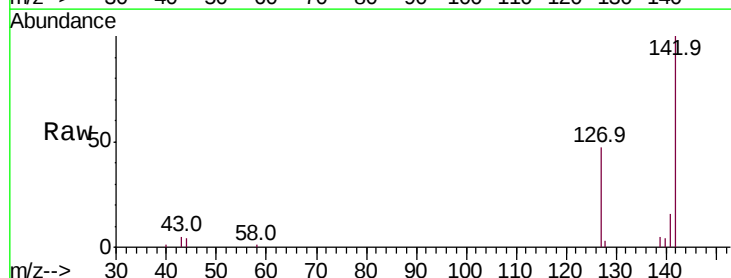
RT: 2.41 min Scan# 385

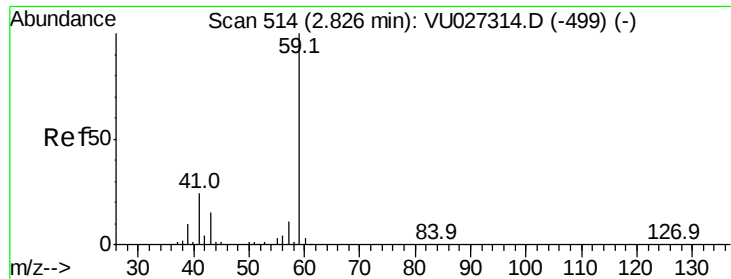
Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Tgt Ion:	142	Resp:	17640
Ion Ratio	Lower	Upper	
142	100		
127	46.5	36.3	54.5
141	14.2	11.6	17.4





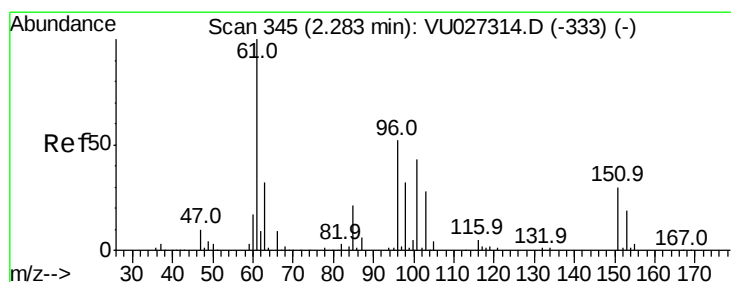
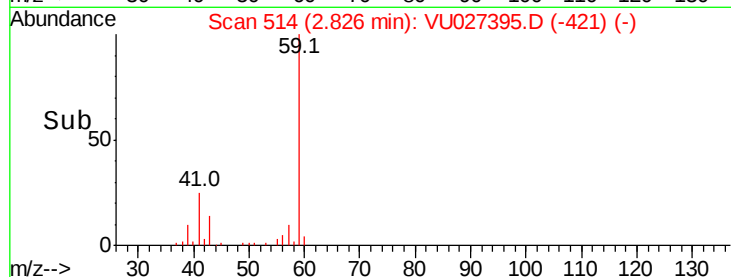
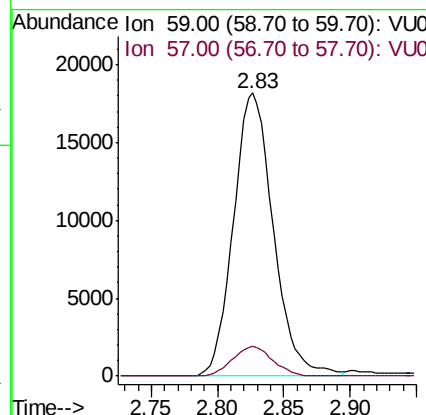
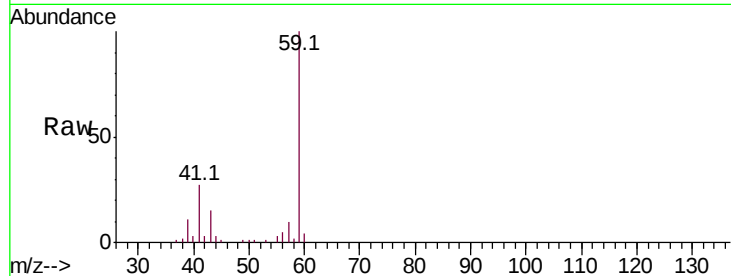
#11
Tert butyl alcohol
Concen: 95.374 ug/l
RT: 2.83 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.4	12.6

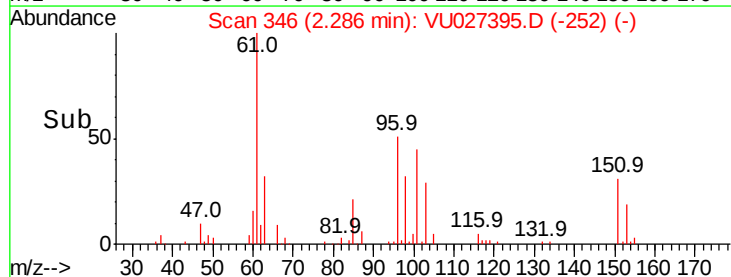
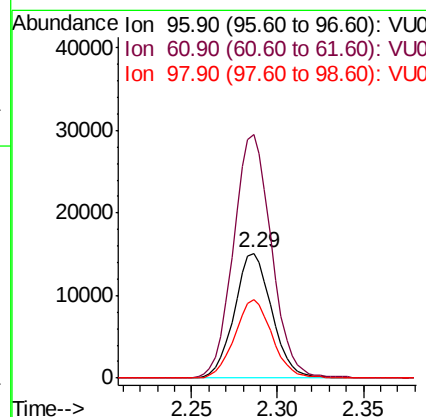
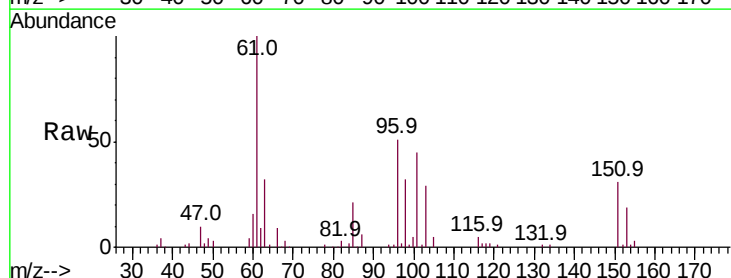
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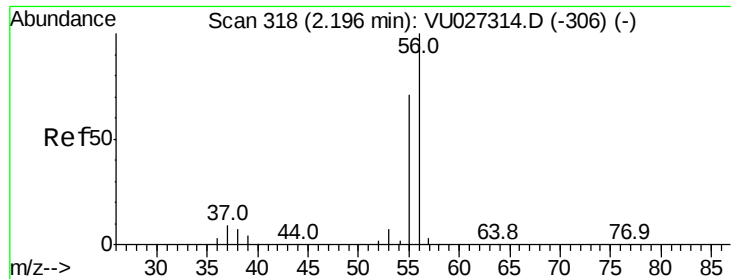
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#12
1,1-Dichloroethene
Concen: 19.190 ug/l
RT: 2.29 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	194.8	153.0	229.6
98	63.1	49.3	73.9





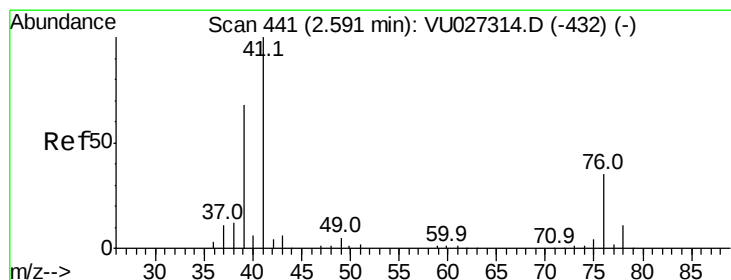
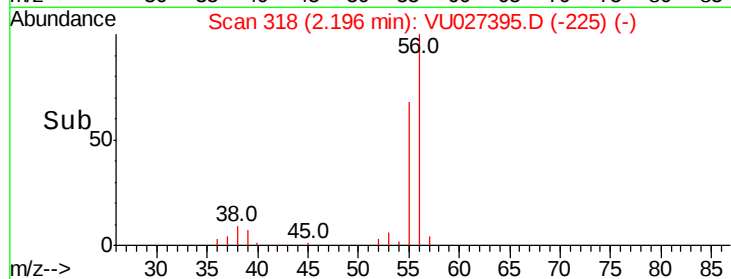
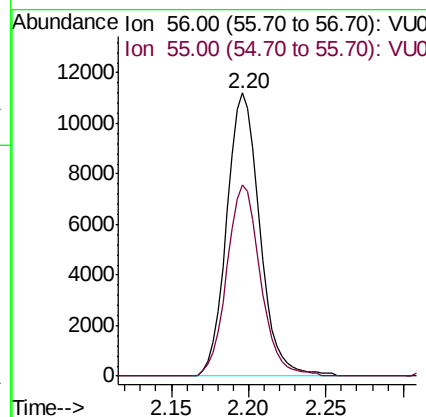
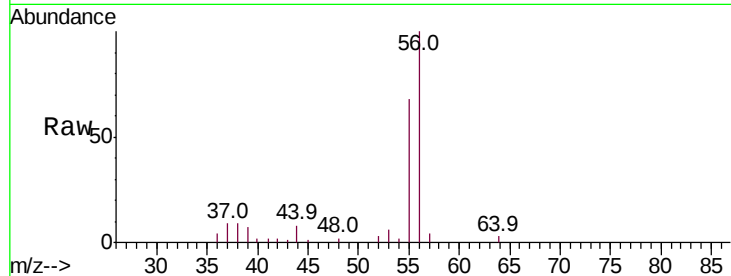
#13
Acrolein
Concen: 49.695 ug/l
RT: 2.20 min Scan# 318
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	56	55	Ratio	100	68.6	Resp	16612	Lower	57.7	Upper	86.5
Ion	56	55	Ratio	100	68.6	Resp	16612	Lower	57.7	Upper	86.5

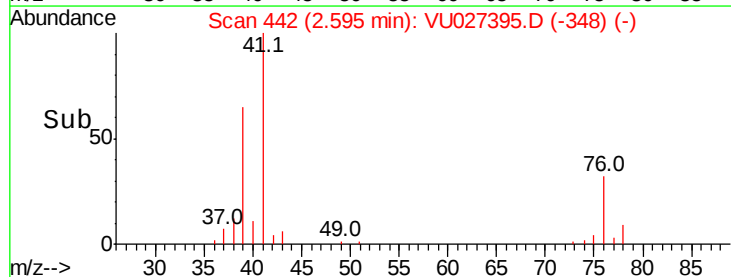
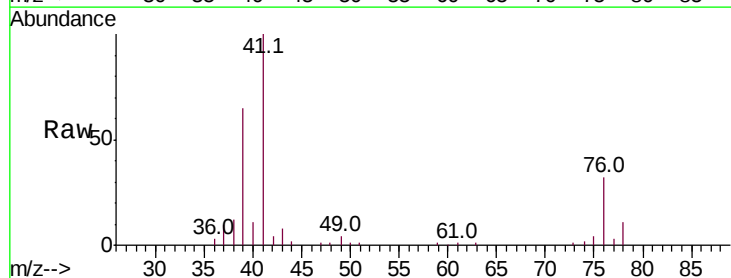
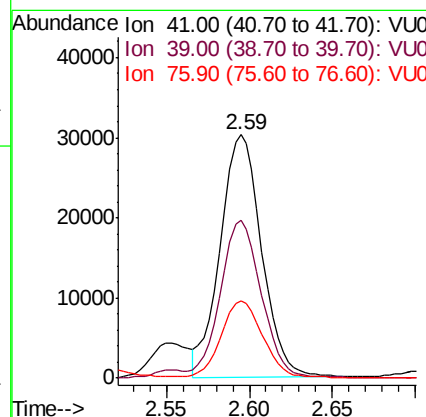
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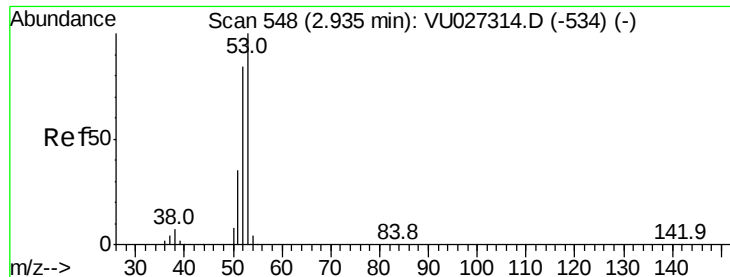
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#14
Allyl chloride
Concen: 18.469 ug/l
RT: 2.59 min Scan# 442
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	41	39	76	Ratio	100	64.8	32.4	Resp	52485	Lower	51.8	Upper	77.8	38.9
Ion	41	39	76	Ratio	100	64.8	32.4	Resp	52485	Lower	51.8	Upper	77.8	38.9





#15

Acrylonitrile

Concen: 100.317 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

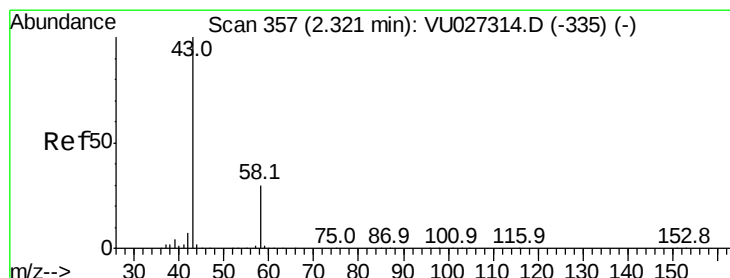
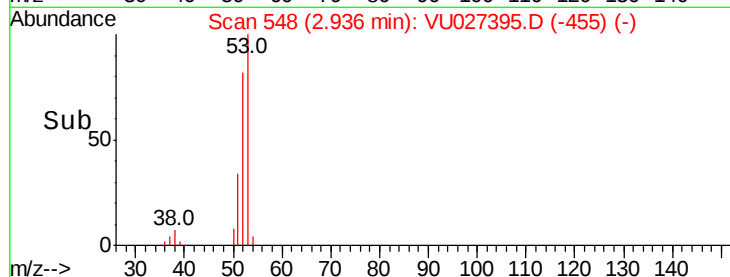
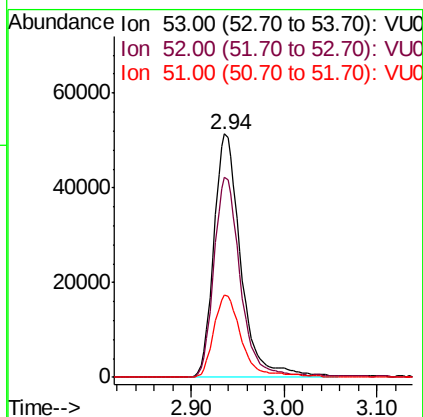
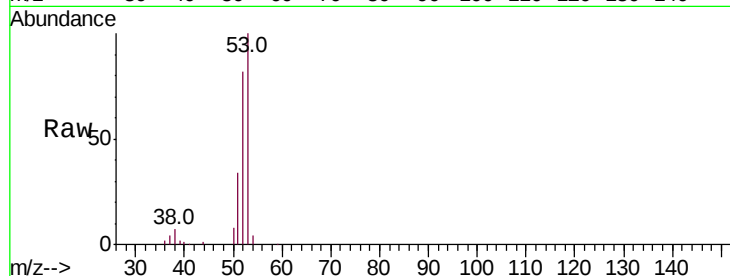
ClientSampleId :

VU1004MBS02

Tot Ion:	53	Resp:	104016
Ion Ratio	Lower	Upper	
53	100		
52	80.4	66.5	99.7
51	35.2	27.6	41.4

Manual Integrations
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#16

Acetone

Concen: 89.533 ug/l

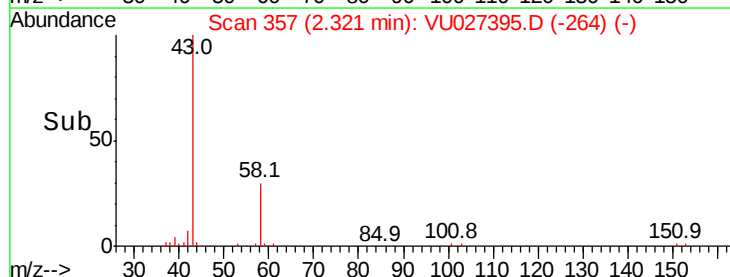
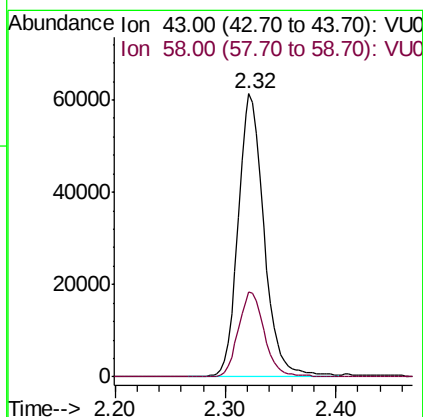
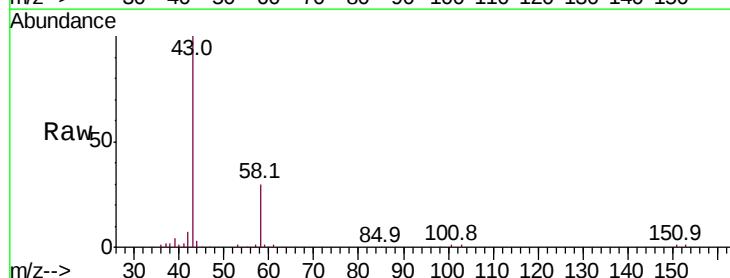
RT: 2.32 min Scan# 357

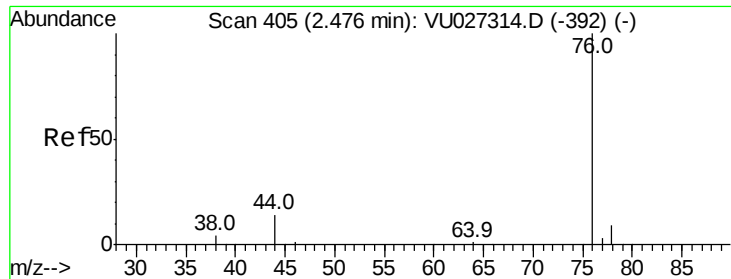
Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Tgt Ion:	43	Resp:	100062
Ion Ratio	Lower	Upper	
43	100		
58	29.8	24.2	36.4





#17

Carbon Disulfide

Concen: 17.671 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 76 Resp: 76270

Ion Ratio Lower Upper

76 100

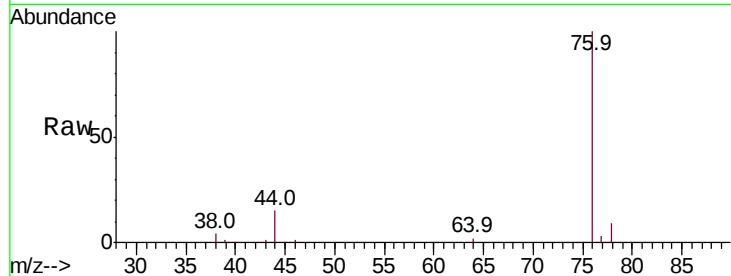
78 9.1 7.3 10.9

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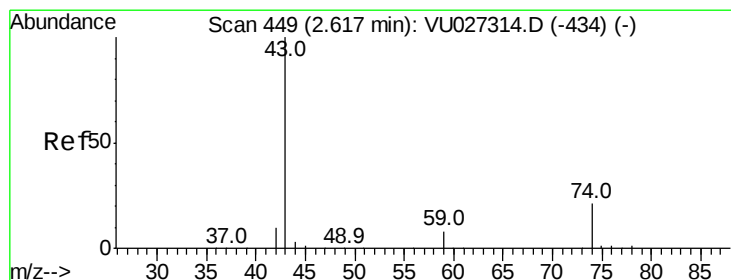
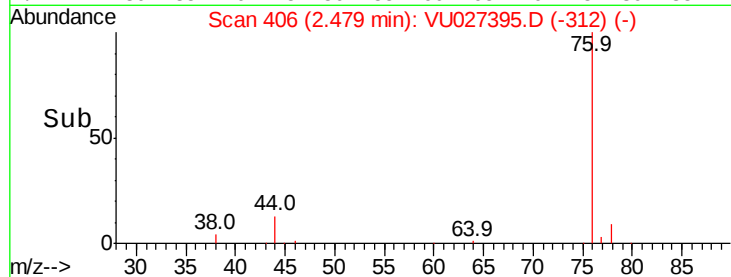
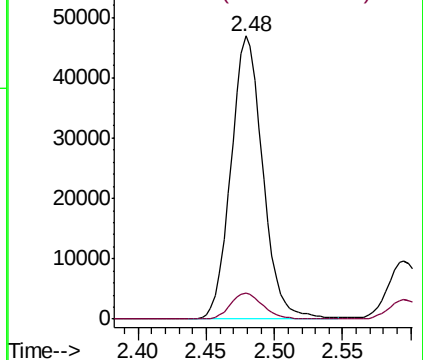
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Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 20.882 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU027395.D

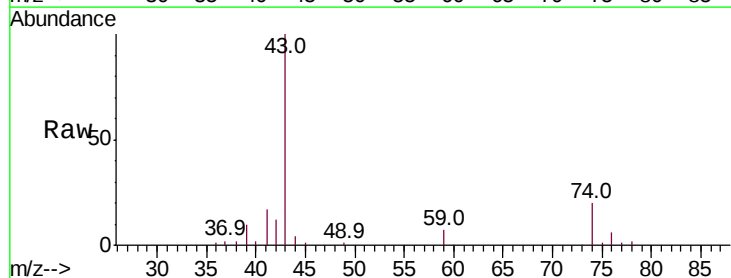
Acq: 04 Oct 2018 10:03

Tgt Ion: 43 Resp: 53239

Ion Ratio Lower Upper

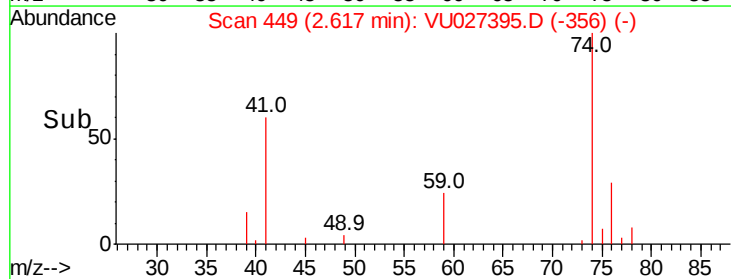
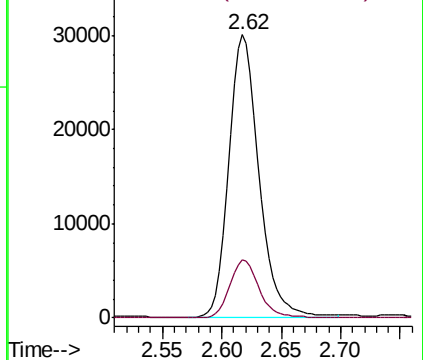
43 100

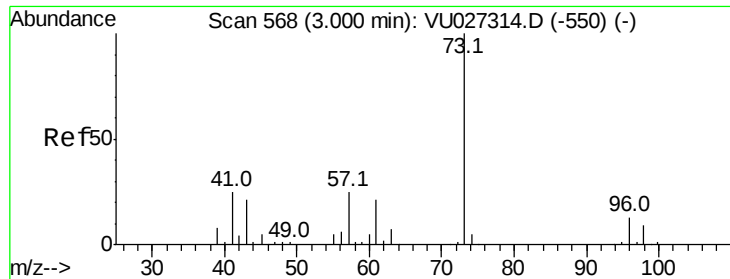
74 19.8 16.5 24.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





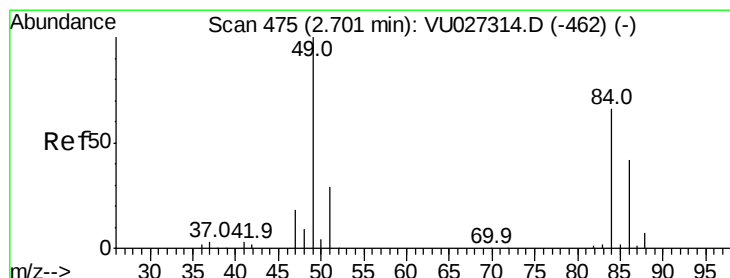
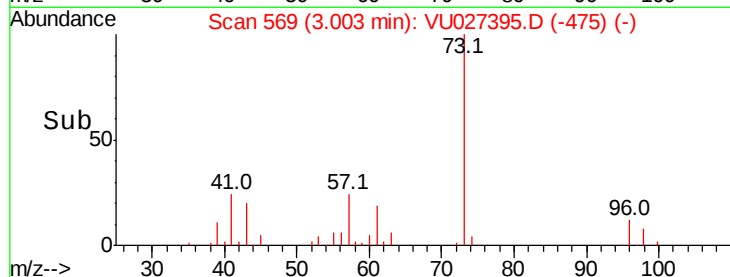
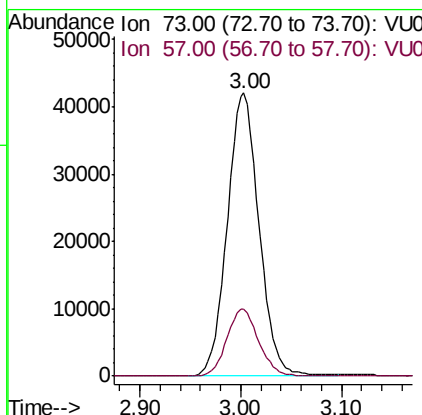
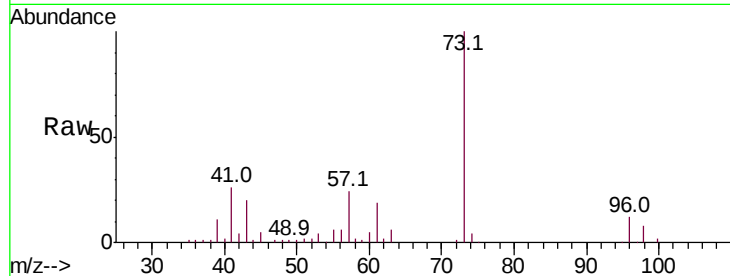
#19
Methyl tert-butyl Ether
Concen: 19.220 ug/l
RT: 3.00 min Scan# 569
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion: 73 Resp: 92161
Ion Ratio Lower Upper
73 100
57 23.8 20.0 30.0

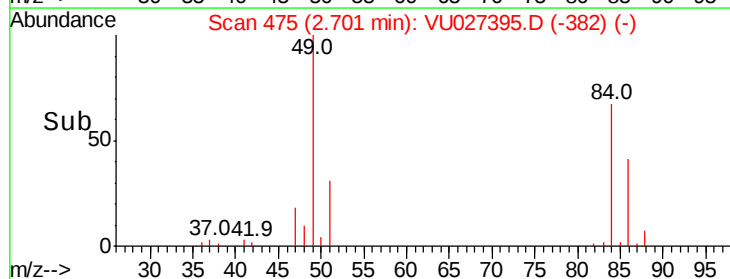
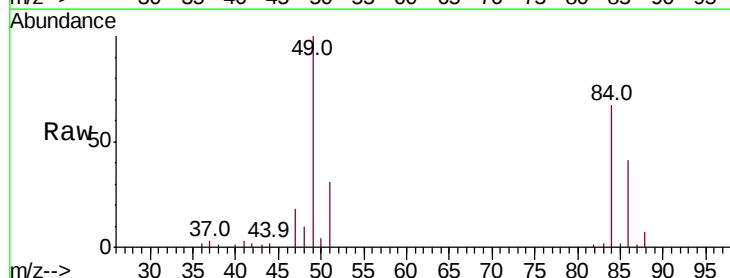
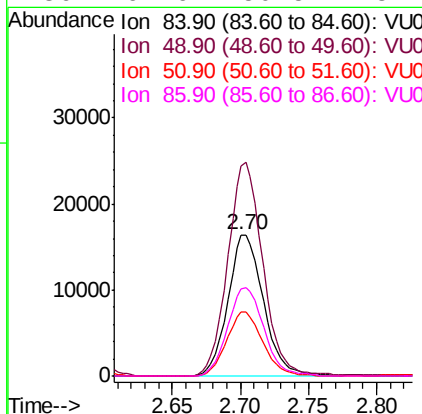
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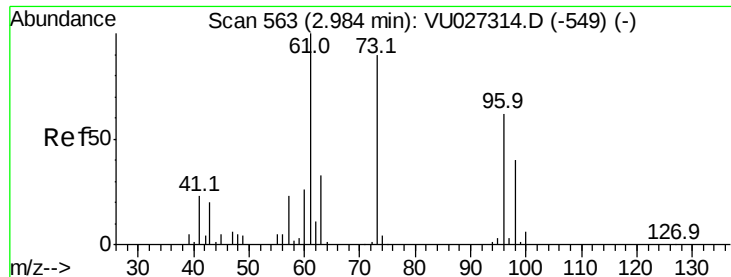
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#20
Methylene Chloride
Concen: 19.047 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion: 84 Resp: 29651
Ion Ratio Lower Upper
84 100
49 149.3 120.5 180.7
51 45.7 35.1 52.7
86 61.6 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 19.469 ug/l

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 96 Resp: 26158

Ion Ratio Lower Upper

96 100

61 168.0 129.4 194.2

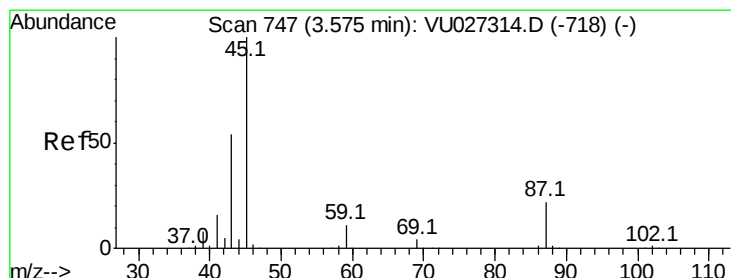
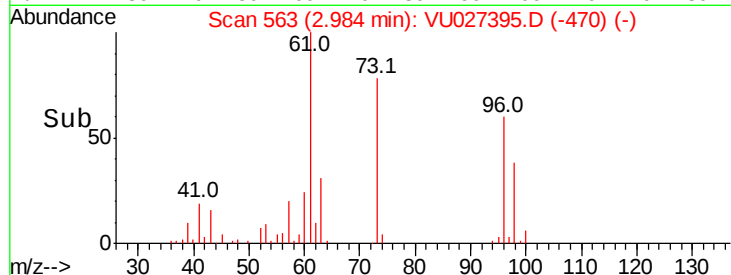
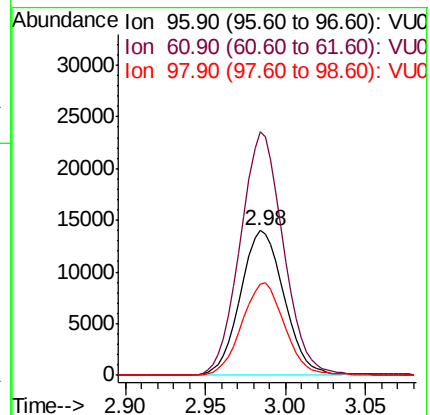
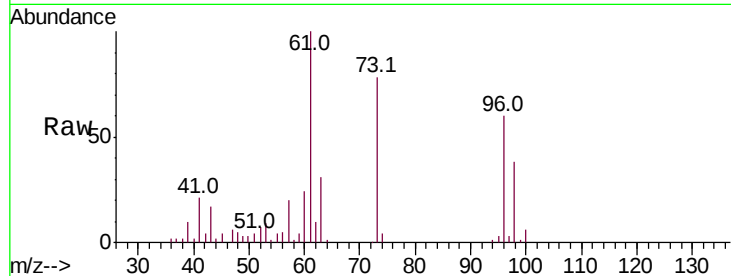
98 63.3 51.2 76.8

Manual Integrations

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#22

Diisopropyl ether

Concen: 19.713 ug/l

RT: 3.58 min Scan# 747

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Tgt Ion: 45 Resp: 113864

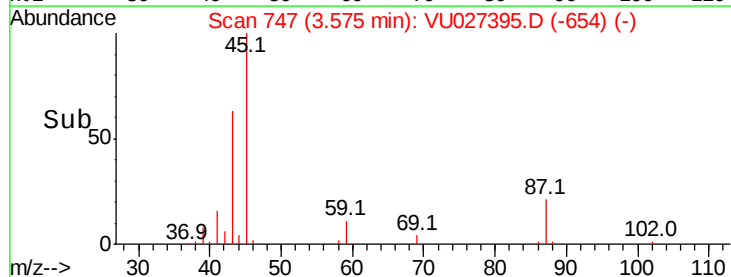
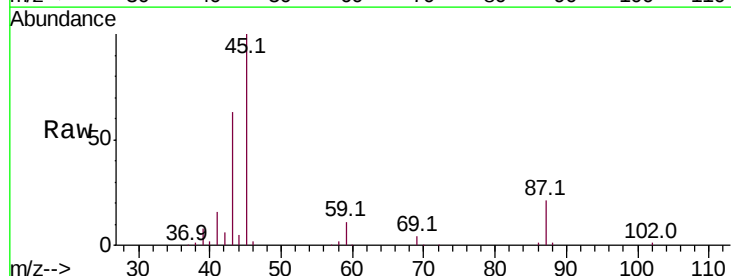
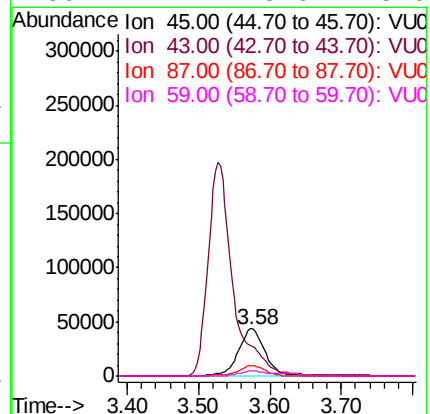
Ion Ratio Lower Upper

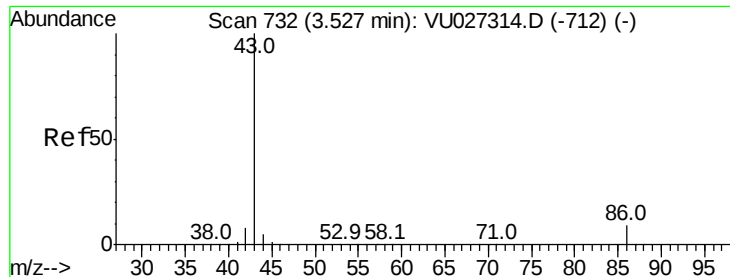
45 100

43 61.0 43.4 65.2

87 21.2 17.5 26.3

59 11.1 8.6 13.0





#23

Vinyl Acetate

Concen: 94.939 ug/l

RT: 3.53 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 43 Resp: 478890

Ion Ratio Lower Upper

43 100

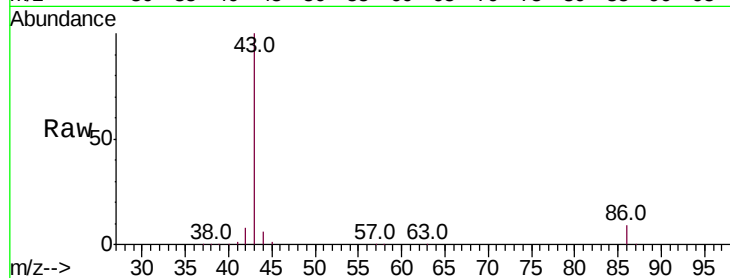
86 8.7 7.0 10.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

3.53

200000

150000

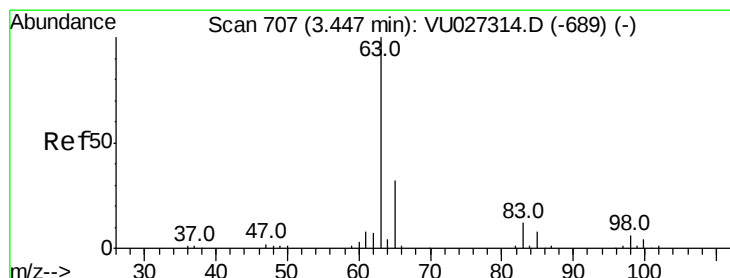
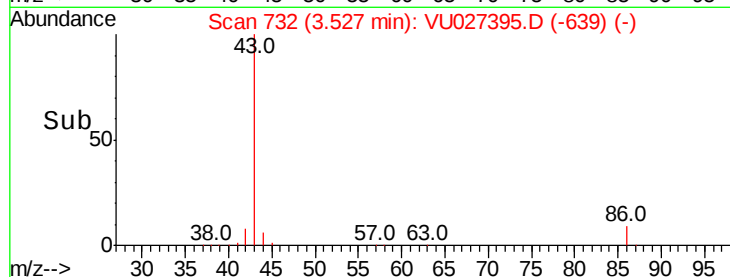
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 19.659 ug/l

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

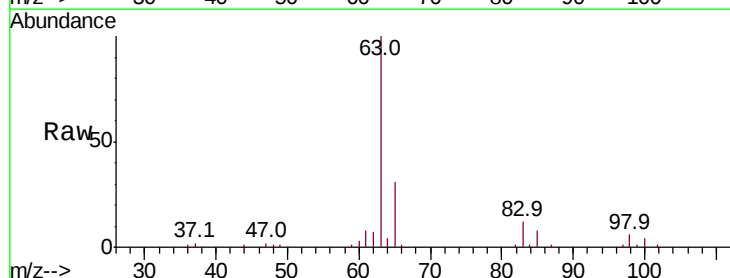
Tgt Ion: 63 Resp: 58374

Ion Ratio Lower Upper

63 100

98 6.0 3.0 9.2

100 3.8 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

3.45

30000

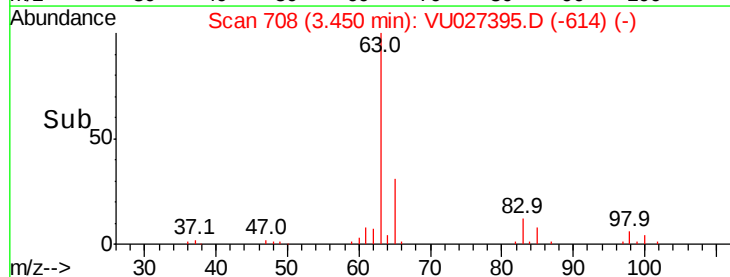
20000

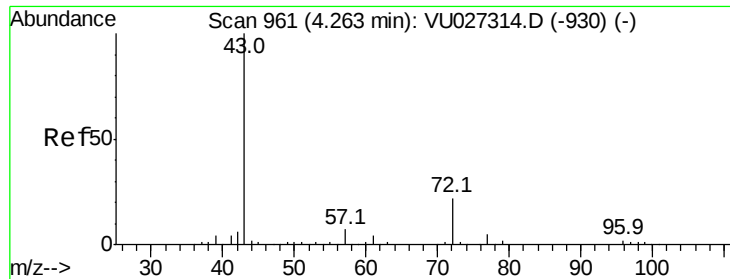
10000

0

3.40 3.50

Time-->





#25

2-Butanone

Concen: 96.917 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 43 Resp: 147704

Ion Ratio Lower Upper

43 100

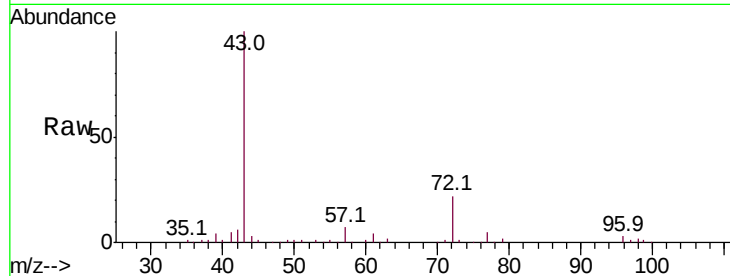
72 21.6 17.8 26.6

Manual Integrations

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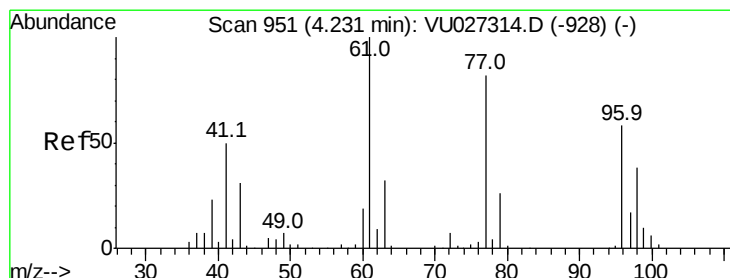
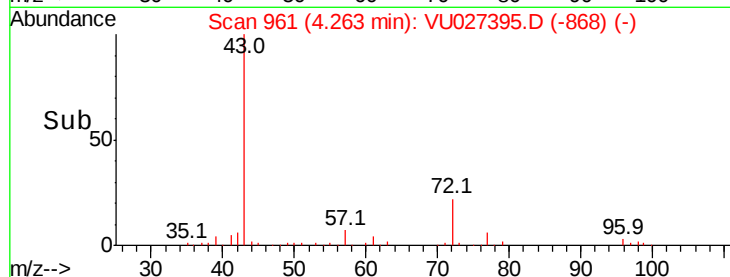
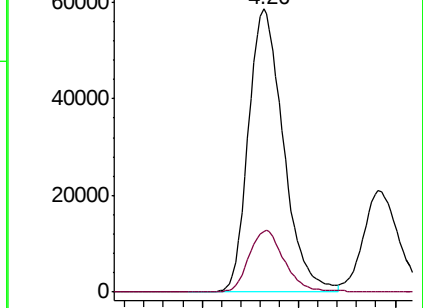
MMDadoda

10/8/2018 1:52:29 PM



Abundance Ion 43.00 (42.70 to 43.70): VU027314.D (-930) (-)

Ion 72.00 (71.70 to 72.70): VU027314.D (-930) (-)



#26

2,2-Dichloropropane

Concen: 19.491 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU027395.D

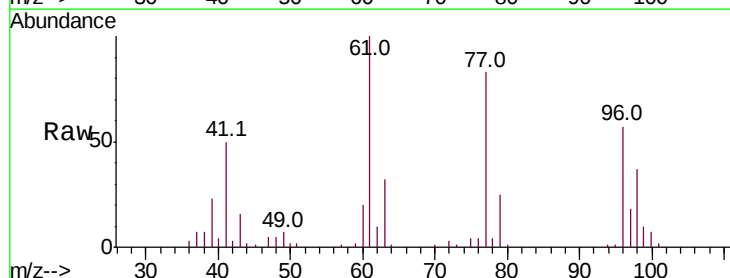
Acq: 04 Oct 2018 10:03

Tgt Ion: 77 Resp: 47556

Ion Ratio Lower Upper

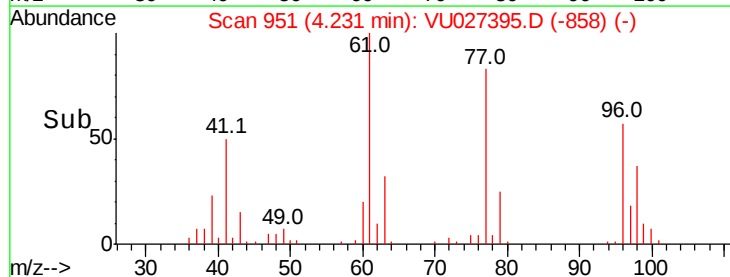
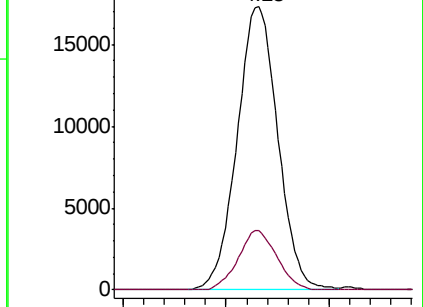
77 100

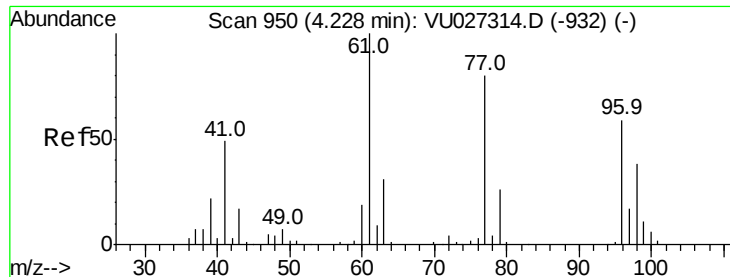
97 19.8 10.4 31.1



Abundance Ion 76.90 (76.60 to 77.60): VU027395.D (-858) (-)

Ion 96.90 (96.60 to 97.60): VU027395.D (-858) (-)





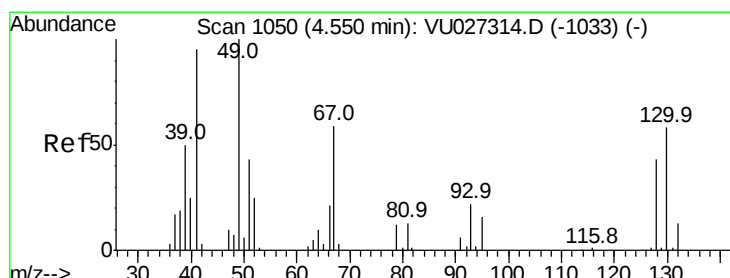
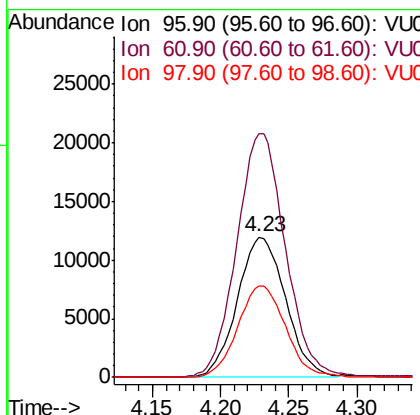
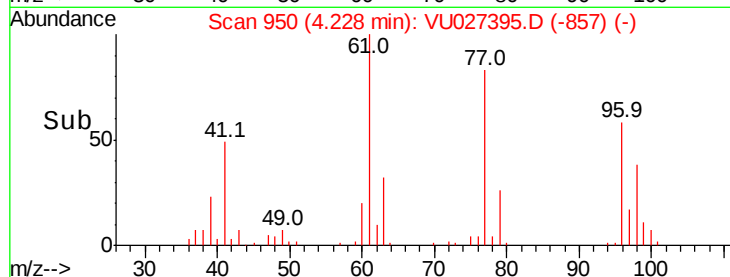
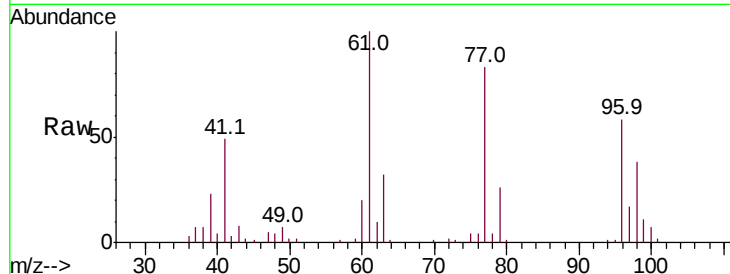
#27
 cis-1,2-Dichloroethene
 Concen: 19.092 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	175.7	0.0	343.8
98	64.5	0.0	129.0

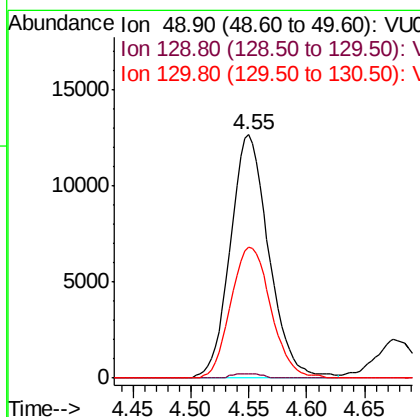
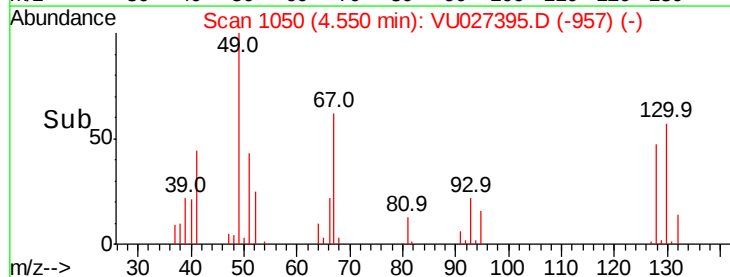
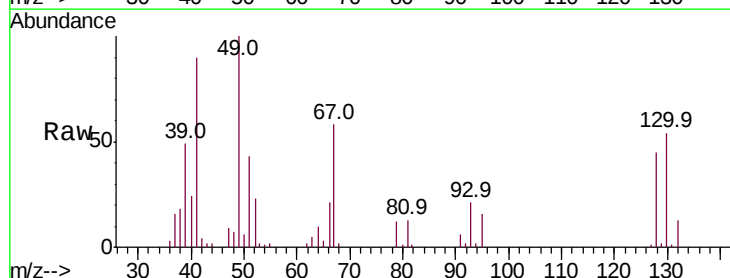
Manual Integrations
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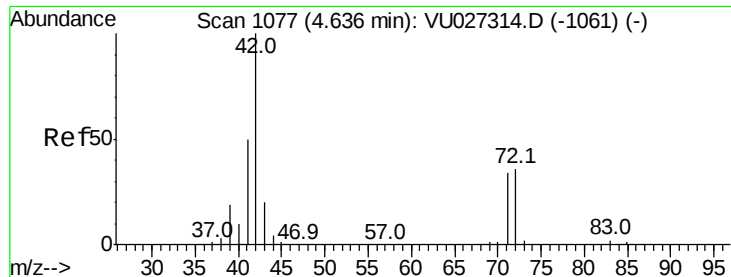
MMDadoda
 10/8/2018 1:52:29 PM



#28
 Bromochloromethane
 Concen: 20.322 ug/l
 RT: 4.55 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.0
130	56.1	46.1	69.1





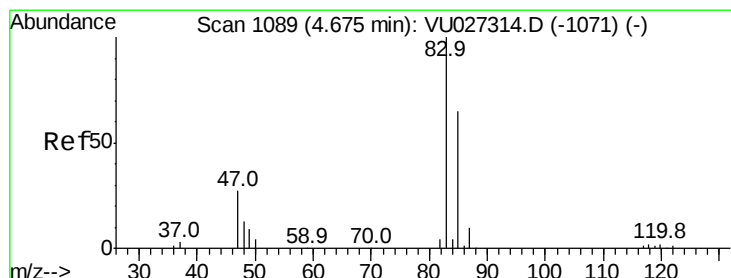
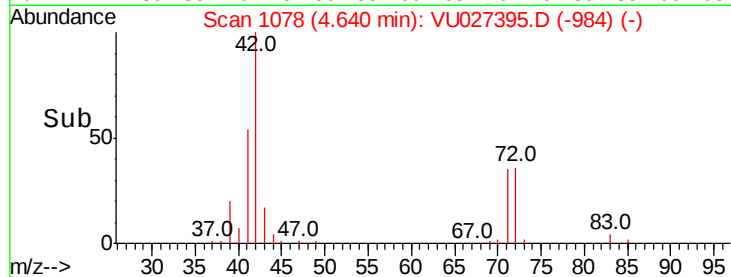
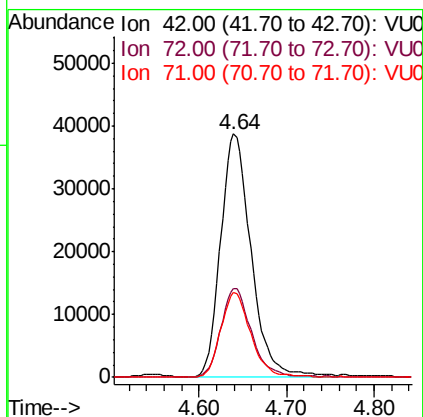
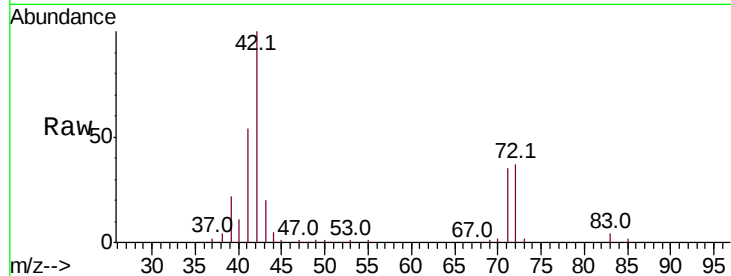
#29
Tetrahydrofuran
Concen: 98.301 ug/l
RT: 4.64 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.6	30.1	45.1
71	34.0	27.7	41.5

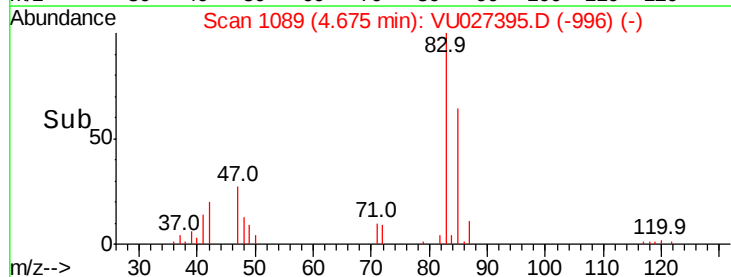
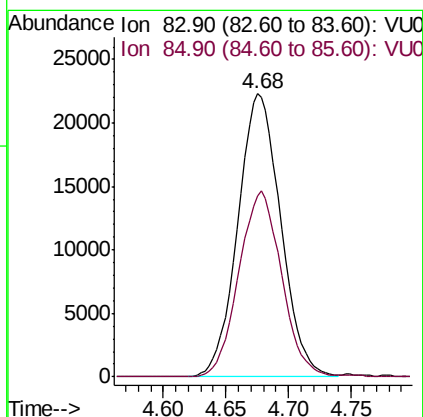
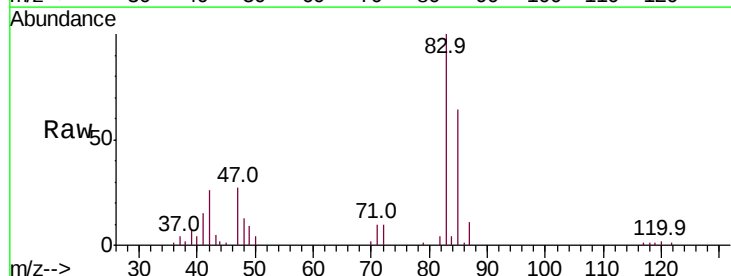
Manual Integrations
APPROVED

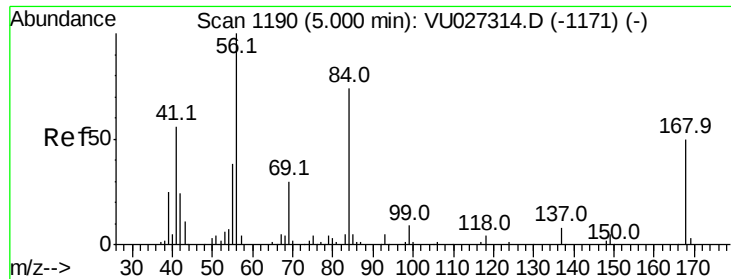
MMDadoda
10/8/2018 1:52:29 PM



#30
Chloroform
Concen: 20.110 ug/l
RT: 4.68 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.6





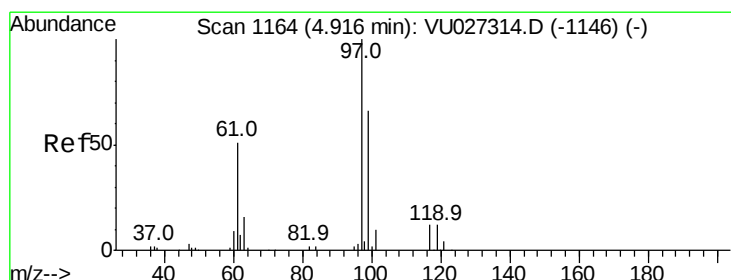
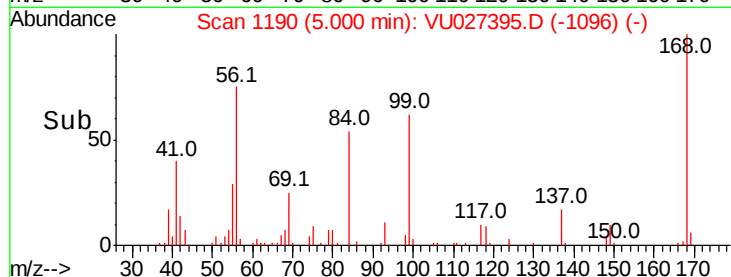
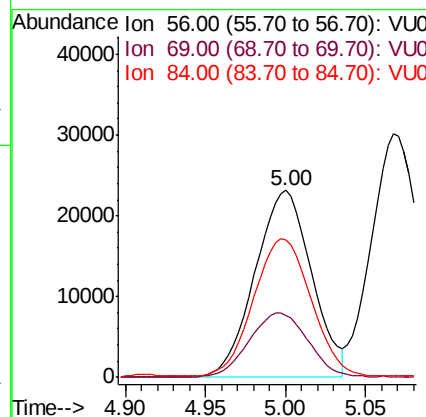
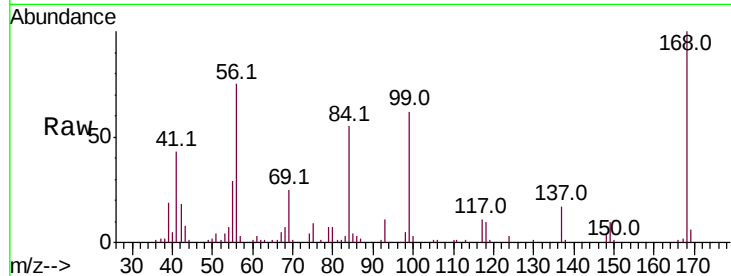
#31
Cyclohexane
Concen: 18.466 ug/l
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.3	24.1	36.1
84	72.7	59.1	88.7

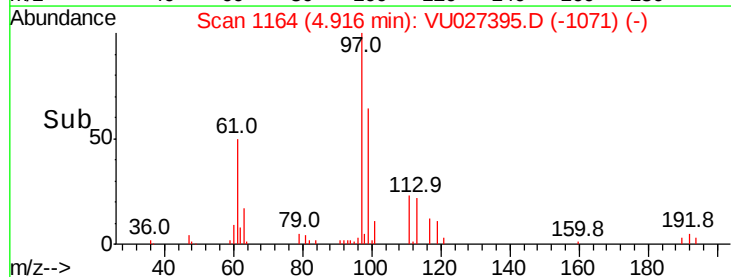
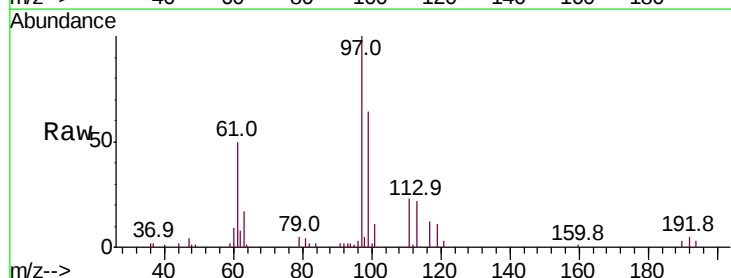
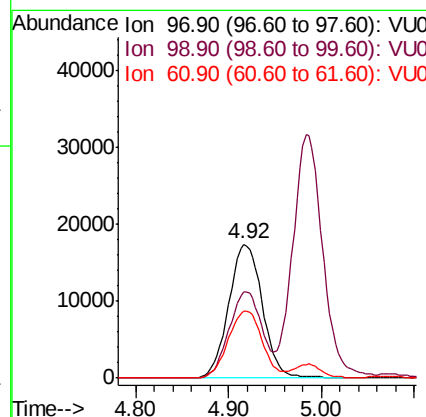
Manual Integrations
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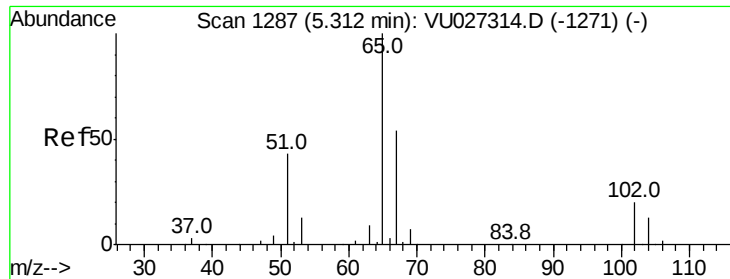
MMDadoda
10/8/2018 1:52:29 PM



#32
1,1,1-Trichloroethane
Concen: 19.768 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.1	76.7
61	50.8	39.6	59.4





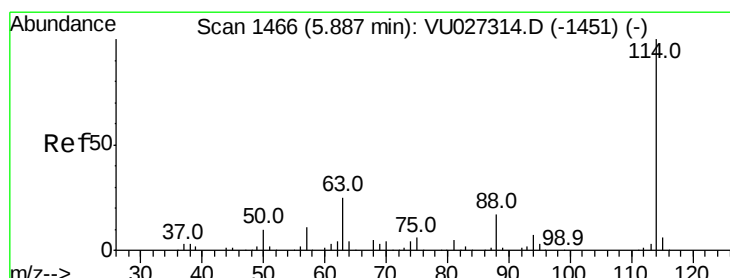
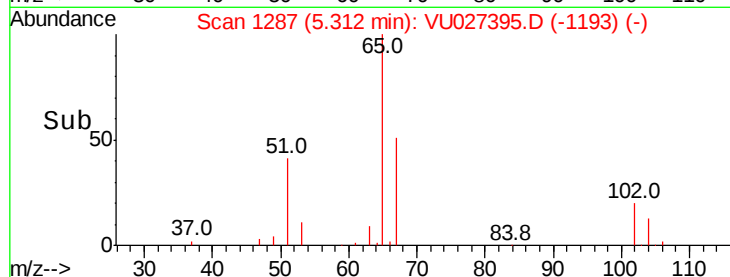
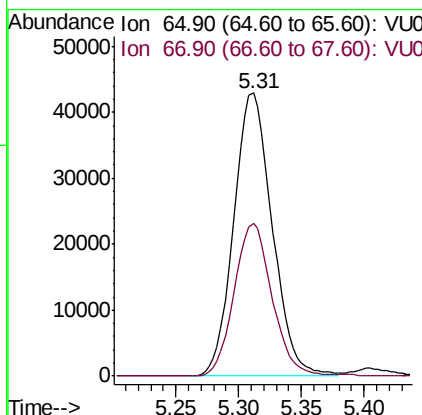
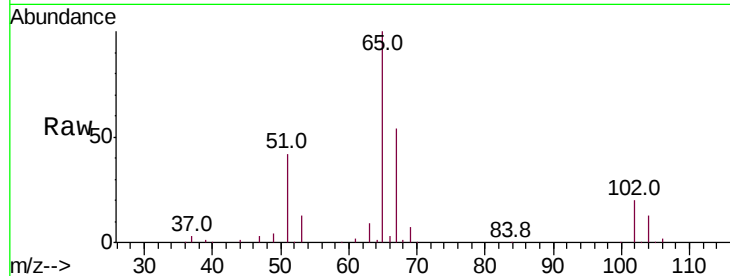
#33
 1,2-Dichloroethane-d4
 Concen: 48.395 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	107.8

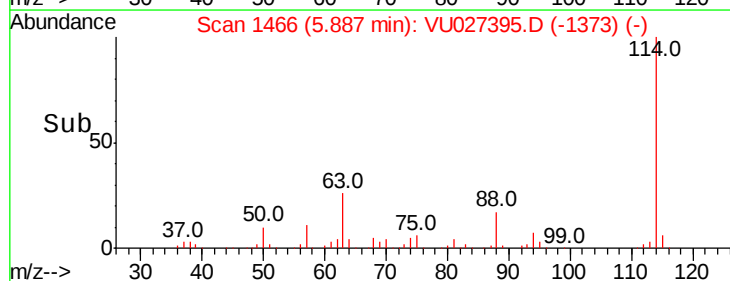
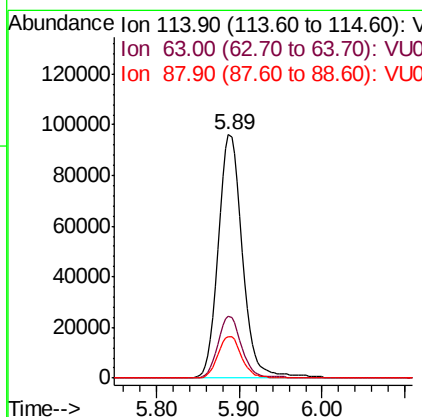
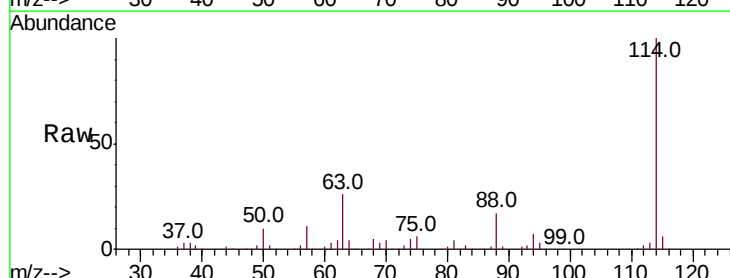
Manual Integrations
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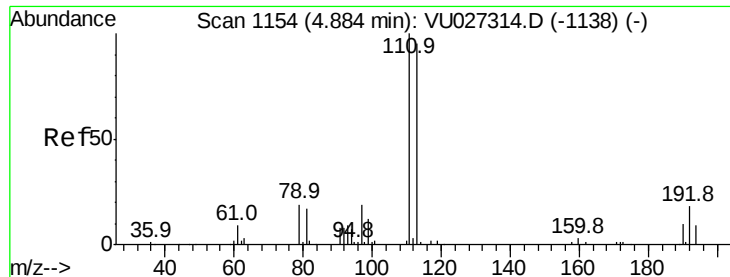
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.6	0.0	50.2
88	17.2	0.0	33.8





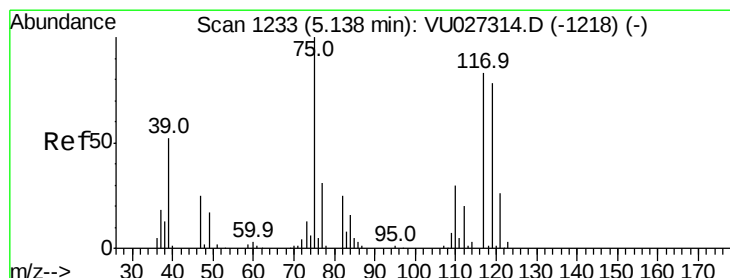
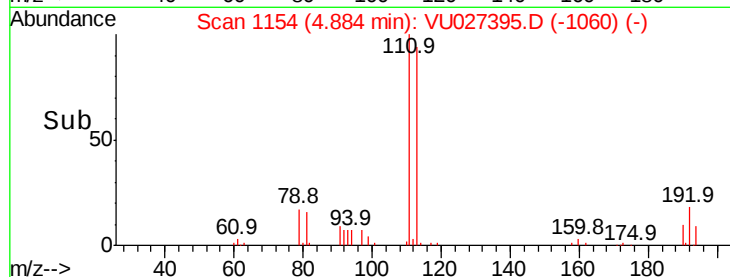
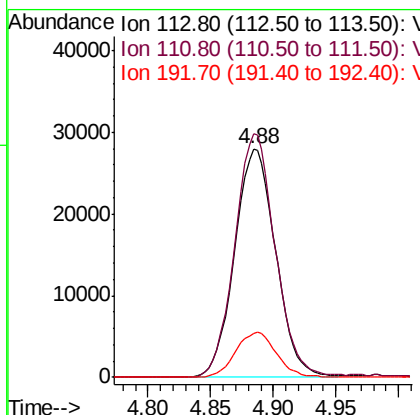
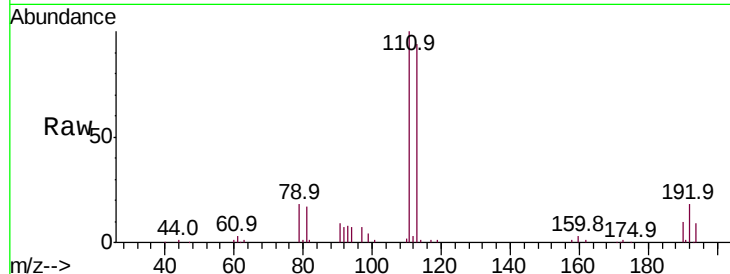
#35
 Dibromofluoromethane
 Concen: 48.028 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.9	83.1	124.7
192	19.5	15.4	23.0

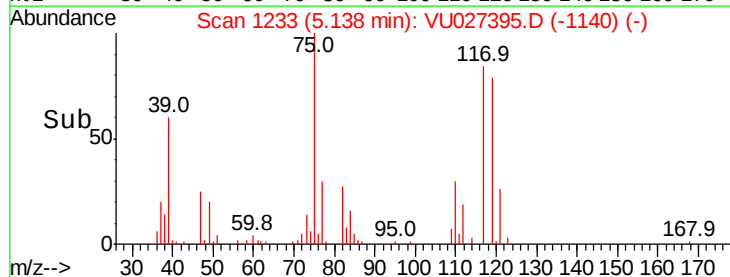
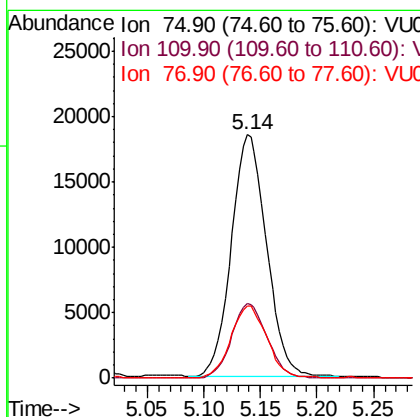
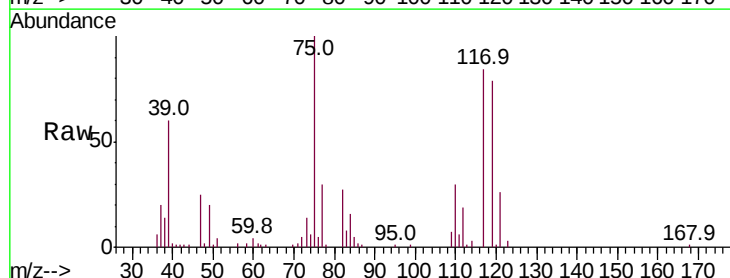
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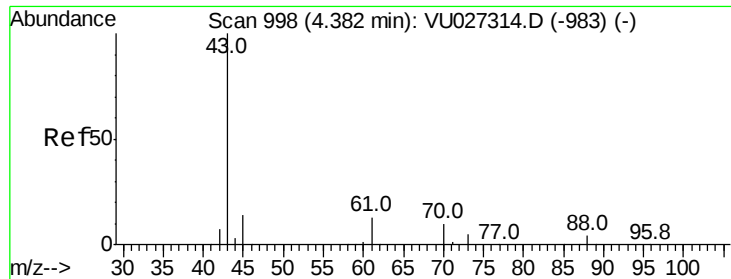
MMDadoda
 10/8/2018 1:52:29 PM



#36
 1,1-Dichloropropene
 Concen: 19.101 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	30.9	15.5	46.5
77	30.6	25.4	38.0





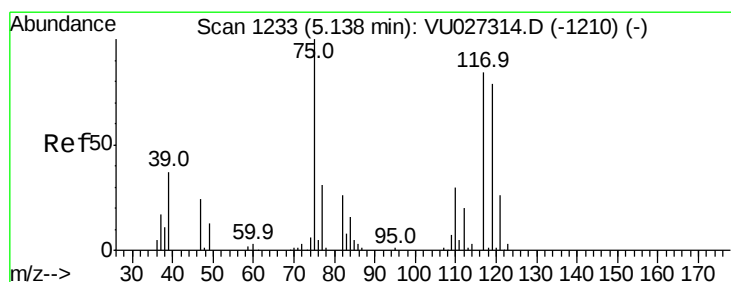
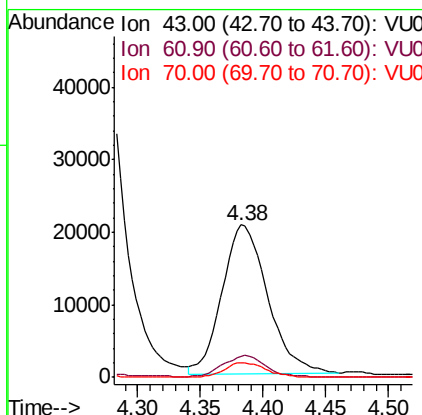
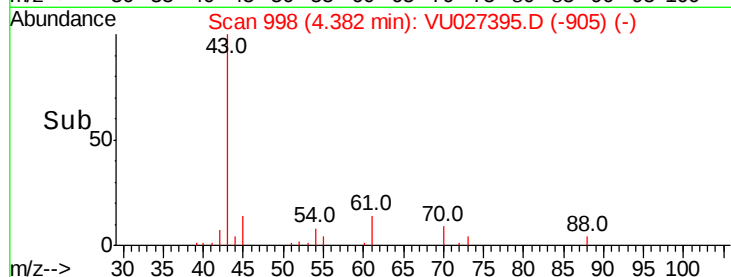
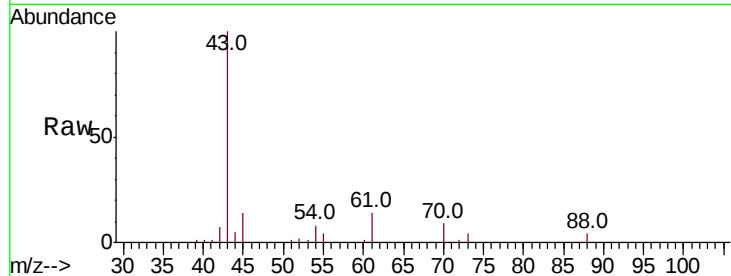
#37
Ethyl Acetate
Concen: 19.128 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.7	16.1
70	8.9	7.4	11.2

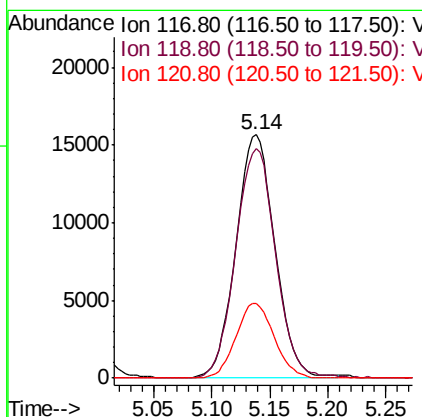
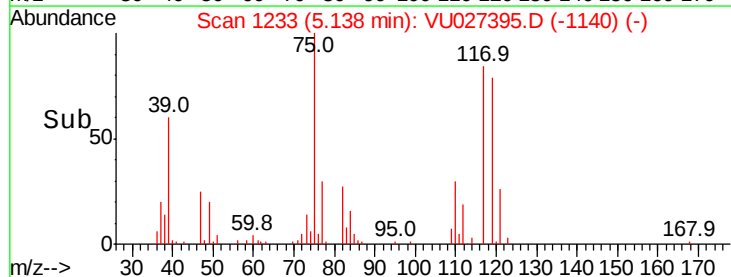
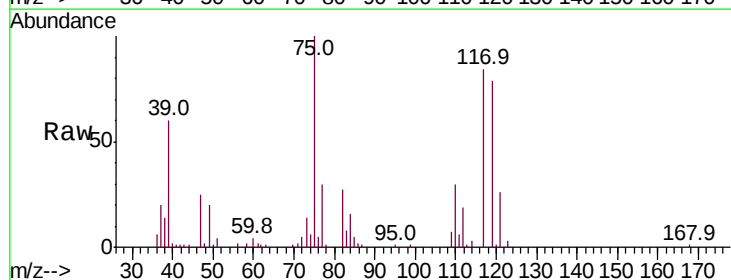
Manual Integrations
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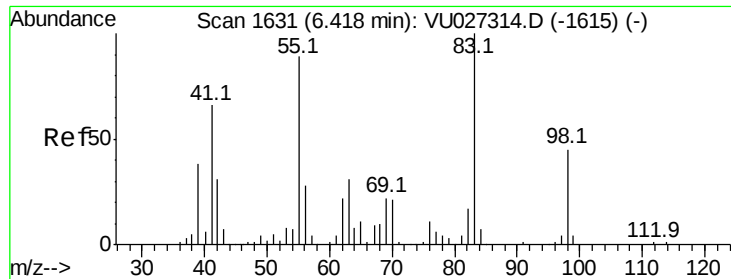
MMDadoda
10/8/2018 1:52:29 PM



#38
Carbon Tetrachloride
Concen: 19.274 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	74.5	111.7
121	30.4	24.6	37.0





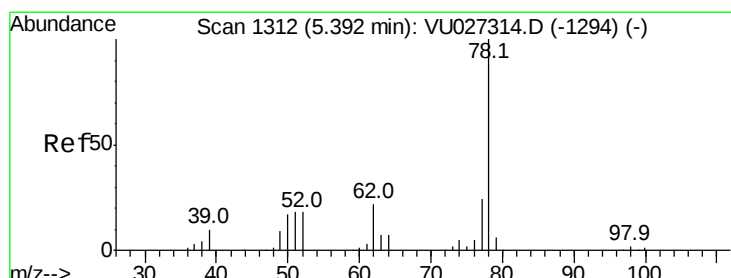
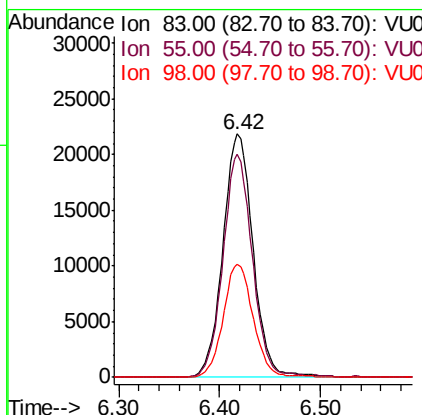
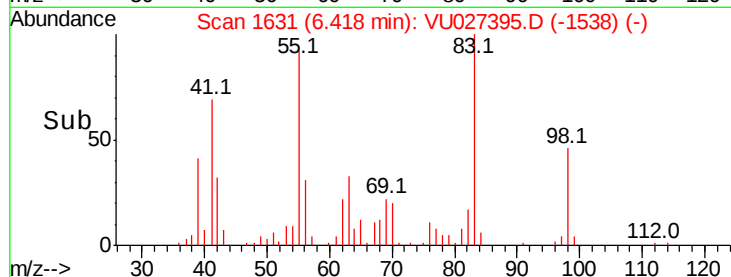
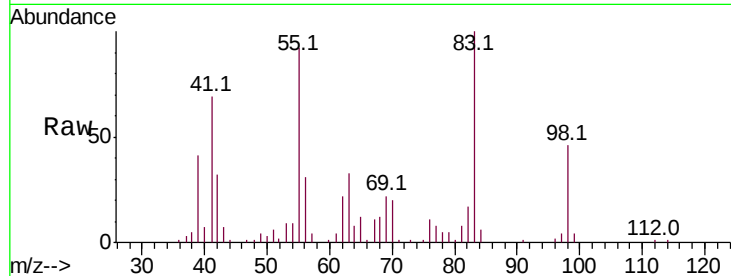
#39
Methvlcvclohexane
Concen: 18.559 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.8	71.1	106.7
98	46.2	36.3	54.5

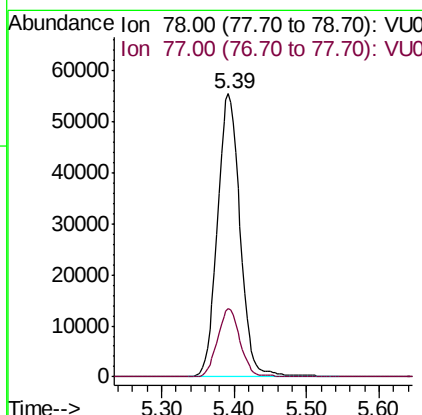
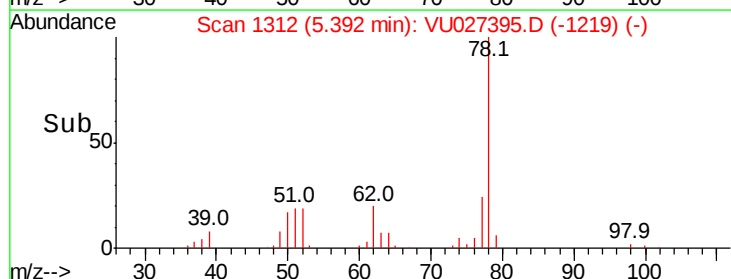
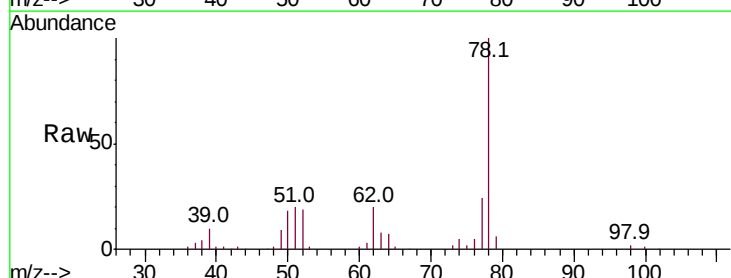
Manual Integrations
APPROVED

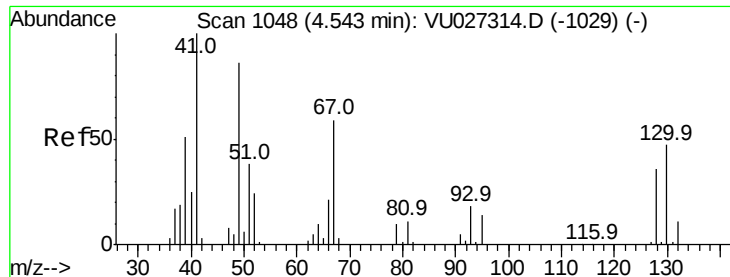
MMDadoda
10/8/2018 1:52:29 PM



#40
Benzene
Concen: 19.618 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.3	28.9





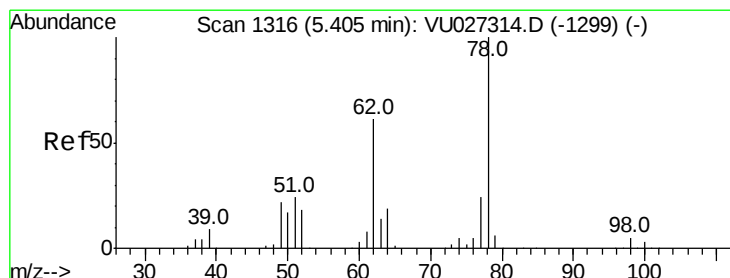
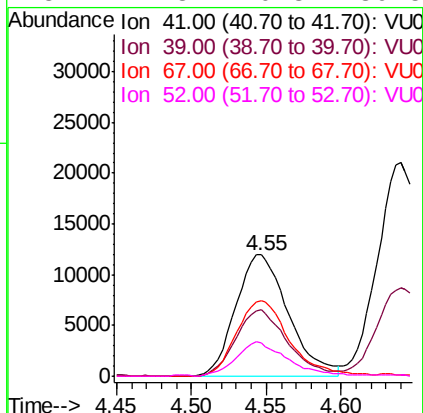
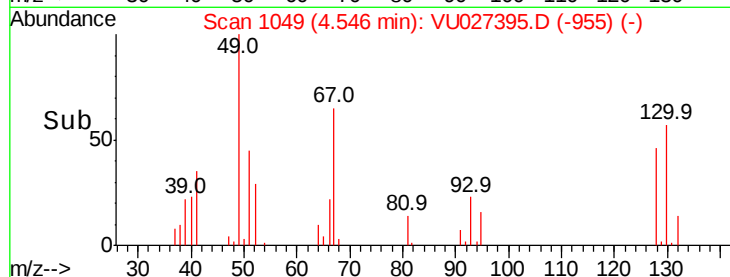
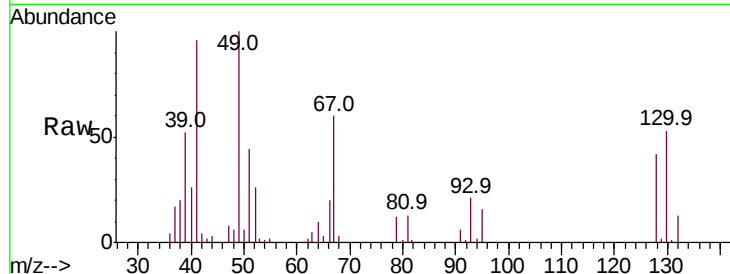
#41
Methacrylonitrile
Concen: 19.040 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.6	41.1	61.7	
67	62.6	50.4	75.6	
52	27.8	20.3	30.5	

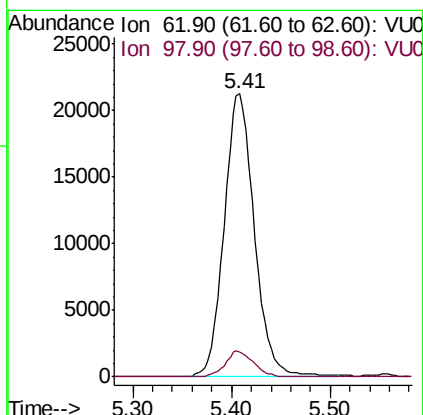
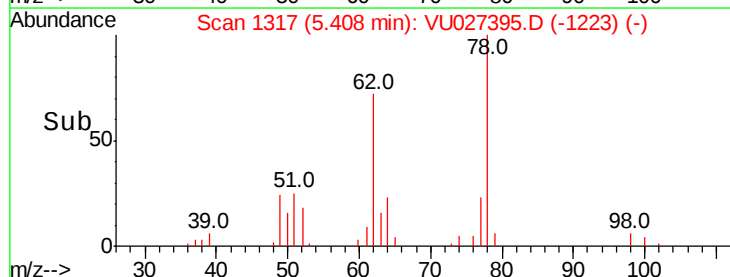
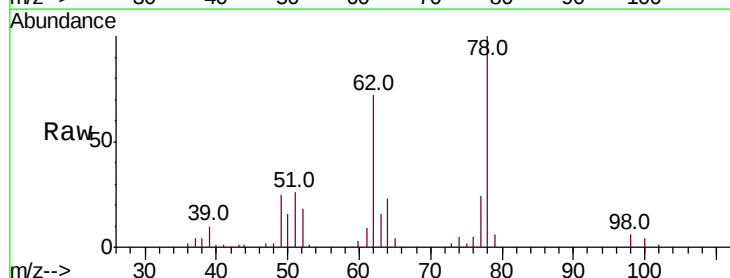
Manual Integrations
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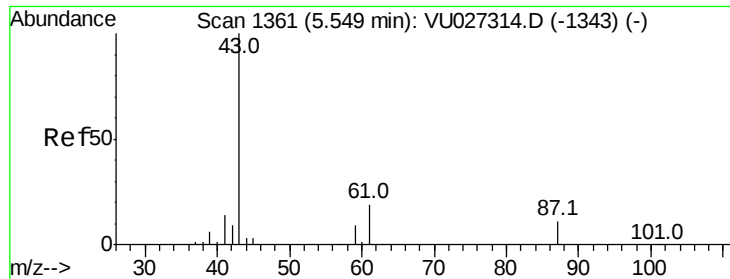
MMDadoda
10/8/2018 1:52:29 PM



#42
1,2-Dichloroethane
Concen: 20.066 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	16.8	





#43

Isopropyl Acetate

Concen: 19.481 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

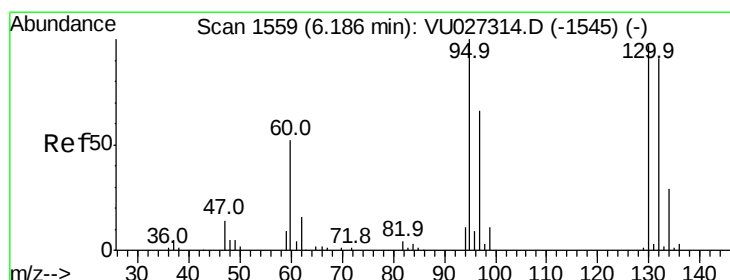
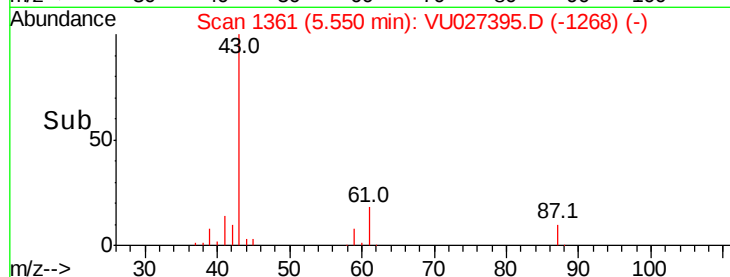
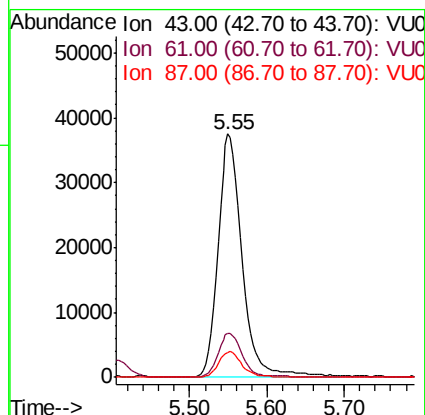
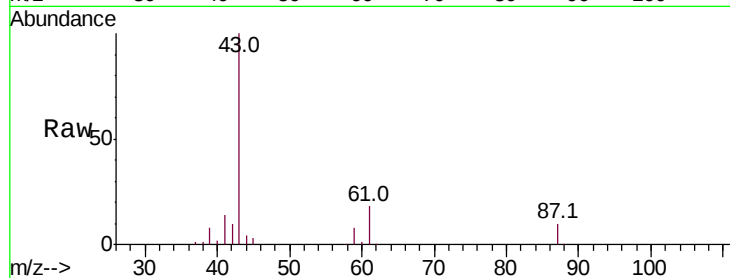
ClientSampleId :

VU1004MBS02

Tot Ion:	43	Resp:	82241
Ion	Ratio	Lower	Upper
43	100		
61	17.9	15.3	22.9
87	10.1	8.6	13.0

Manual Integrations
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MMDadoda
10/8/2018 1:52:29 PM



#44

Trichloroethene

Concen: 19.084 ug/l

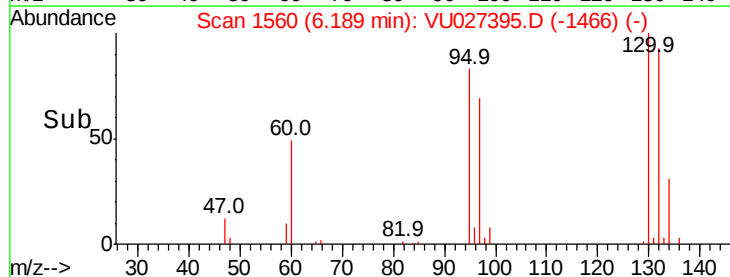
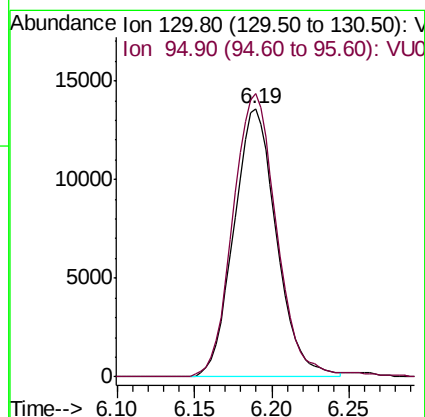
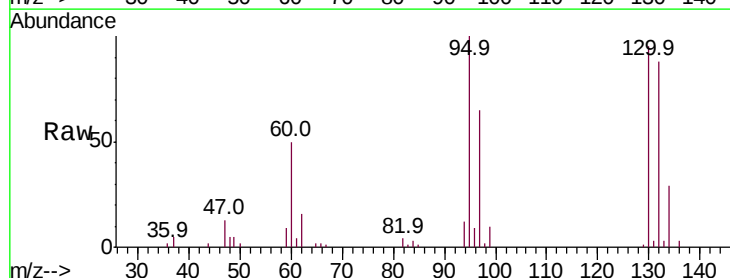
RT: 6.19 min Scan# 1560

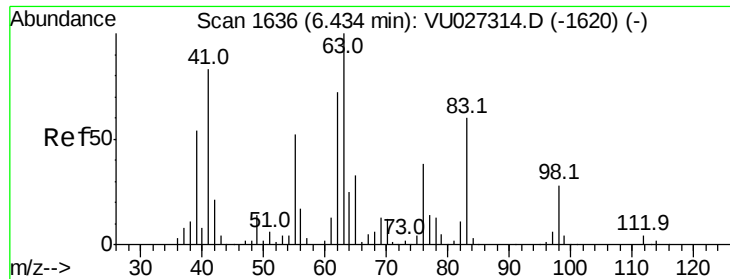
Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Tgt Ion:	130	Resp:	26070
Ion	Ratio	Lower	Upper
130	100		
95	105.6	0.0	207.0





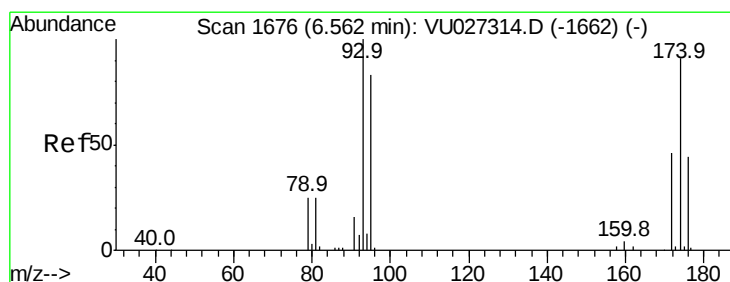
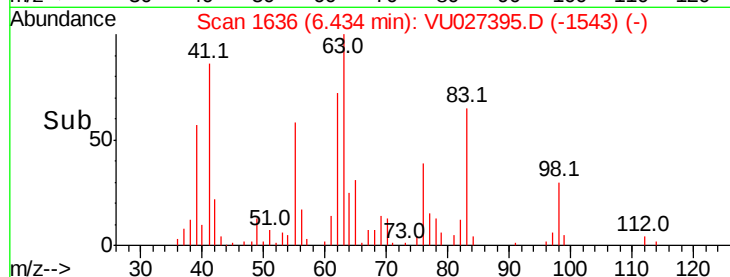
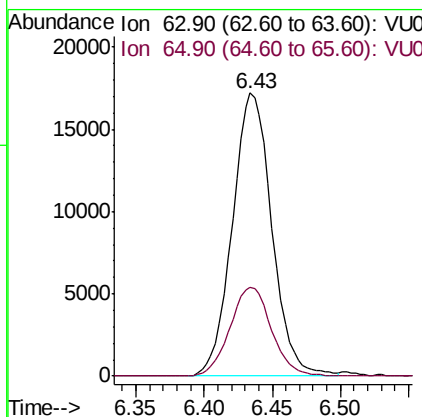
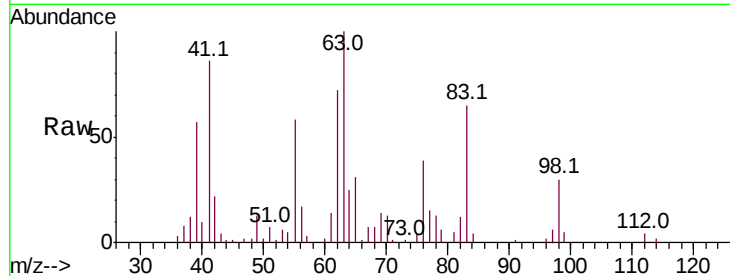
#45
 1,2-Dichloropropane
 Concen: 19.576 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion: 63 Resp: 34593
 Ion Ratio Lower Upper
 63 100
 65 31.3 26.0 39.0

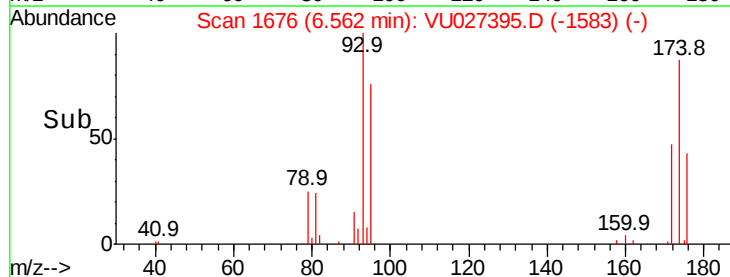
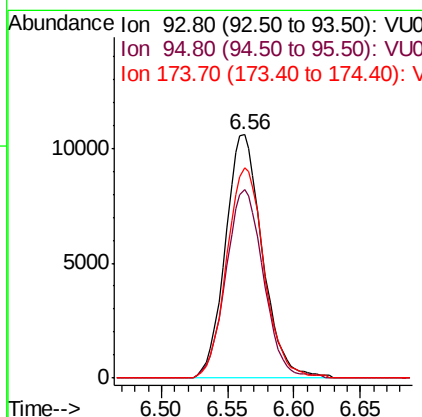
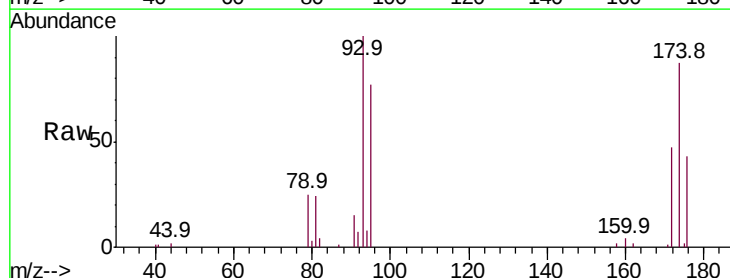
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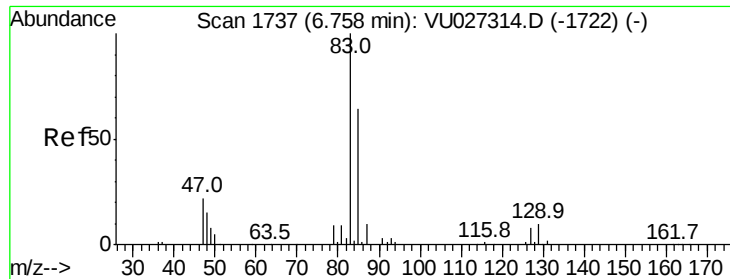
MMDadoda
 10/8/2018 1:52:29 PM



#46
 Dibromomethane
 Concen: 20.606 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion: 93 Resp: 20565
 Ion Ratio Lower Upper
 93 100
 95 78.4 66.5 99.7
 174 87.5 72.5 108.7





#47

Bromodichloromethane

Concen: 19.736 ug/l

RT: 6.76 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

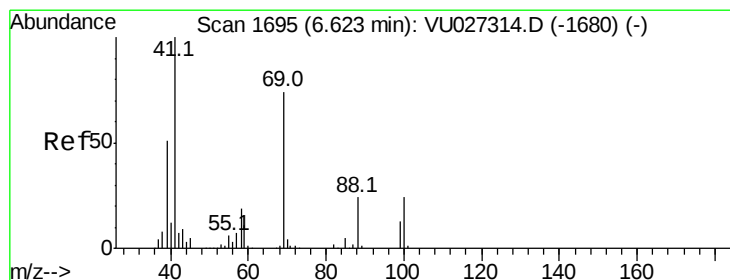
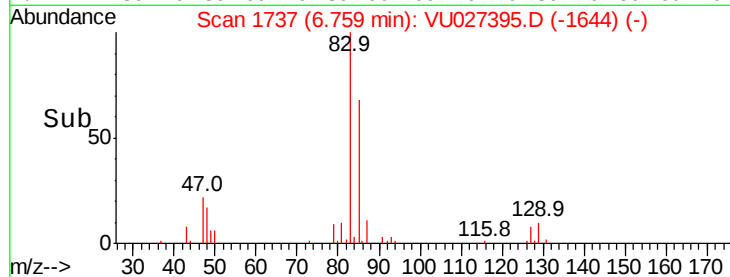
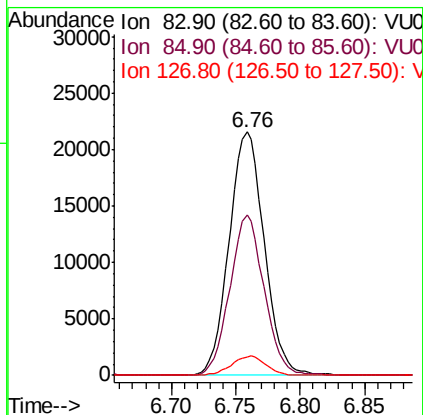
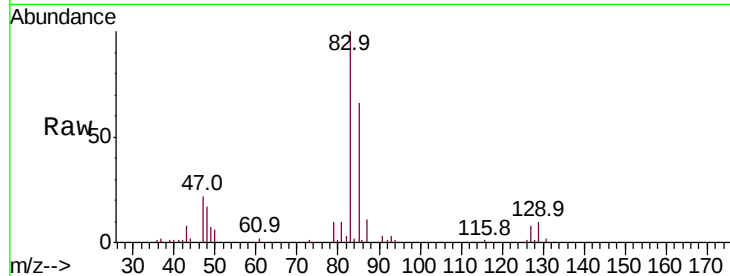
ClientSampleId :

VU1004MBS02

Tot Ion:	83	Resp:	40872
Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.4	77.0
127	7.7	6.3	9.5

Manual Integrations
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10/8/2018 1:52:29 PM



#48

Methyl methacrylate

Concen: 19.155 ug/l

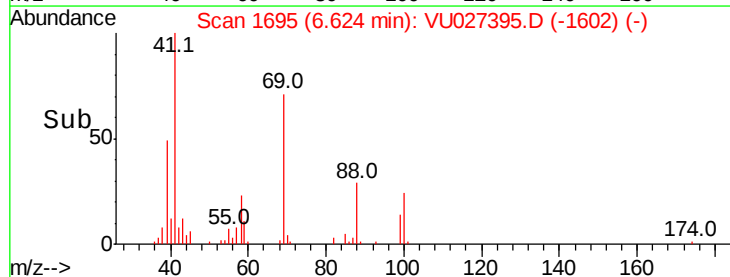
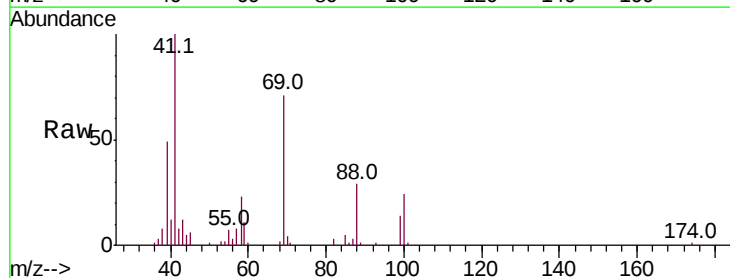
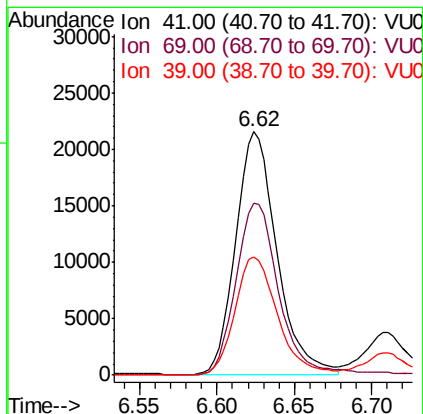
RT: 6.62 min Scan# 1695

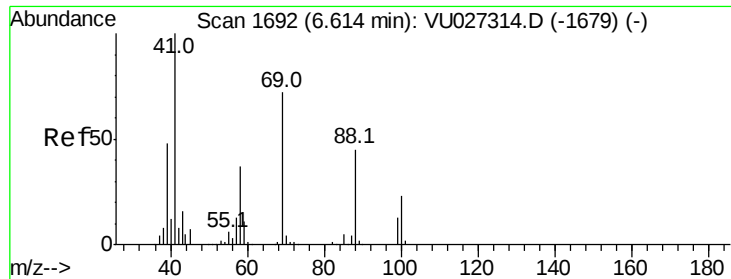
Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Tgt Ion:	41	Resp:	40213
Ion	Ratio	Lower	Upper
41	100		
69	73.6	61.0	91.4
39	50.0	39.9	59.9





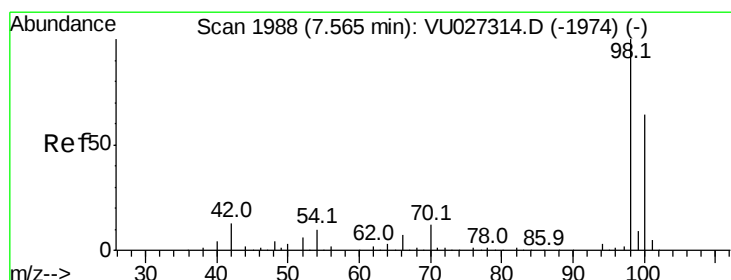
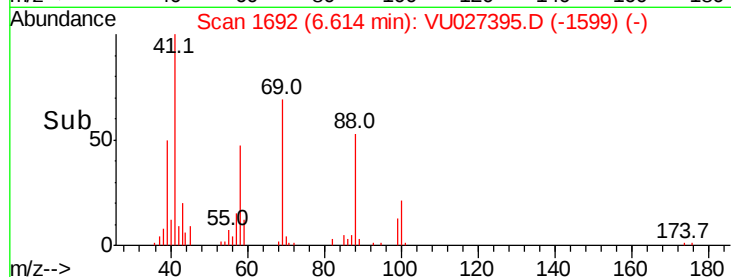
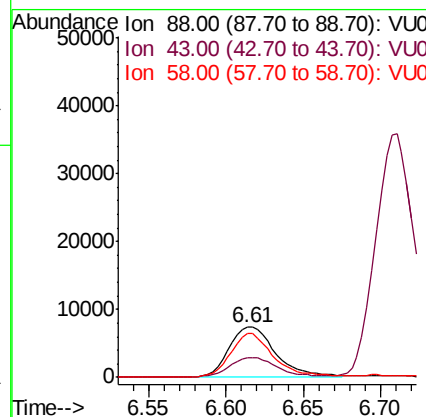
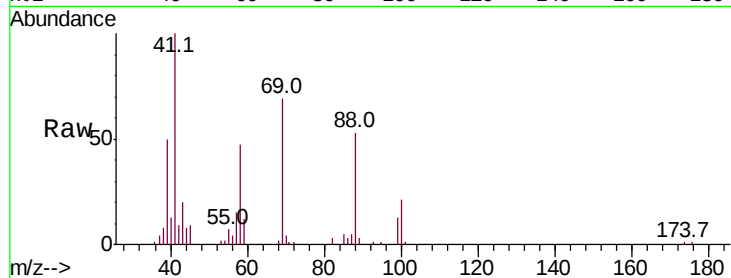
#49
1,4-Dioxane
Concen: 433.810 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.9	30.8	46.2
58	80.8	67.0	100.6

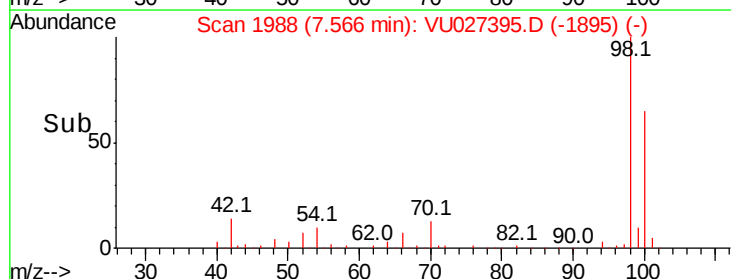
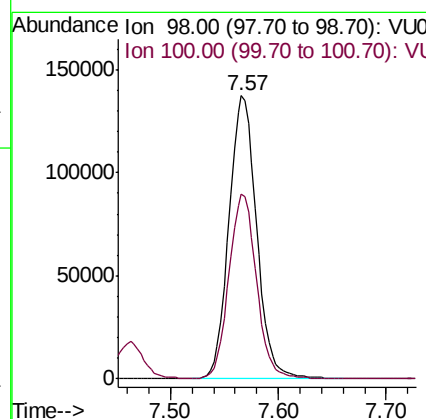
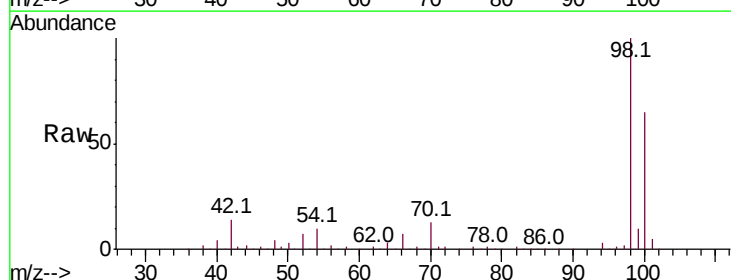
Manual Integrations
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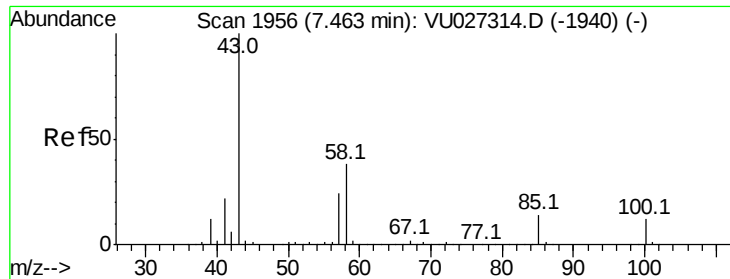
MMDadoda
10/8/2018 1:52:29 PM



#50
Toluene-d8
Concen: 49.492 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 98.012 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 43 Resp: 268878

Ion Ratio Lower Upper

43 100

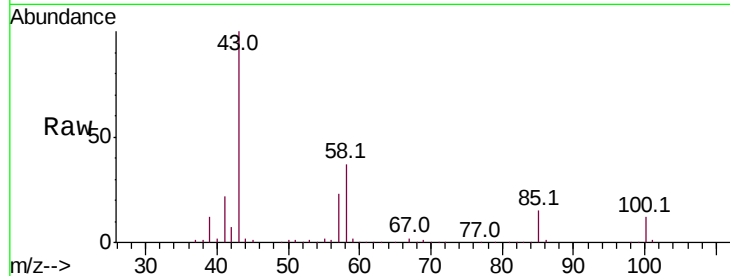
58 36.4 29.8 44.8

Manual Integrations

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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

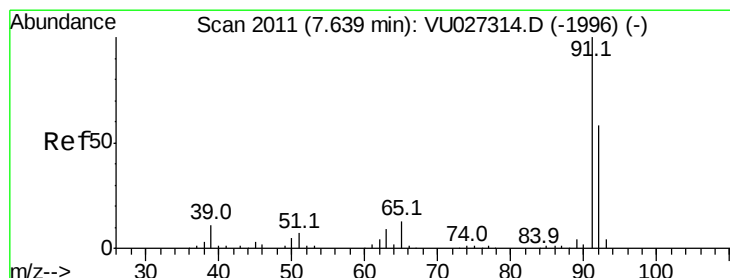
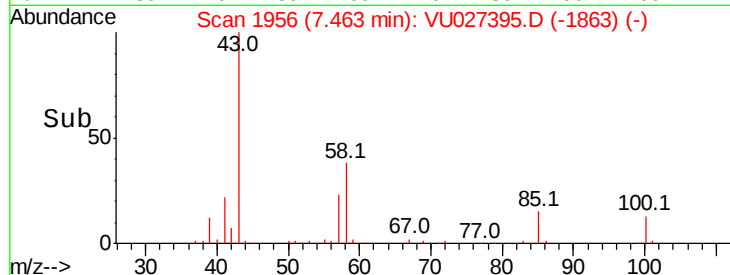
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 19.589 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027395.D

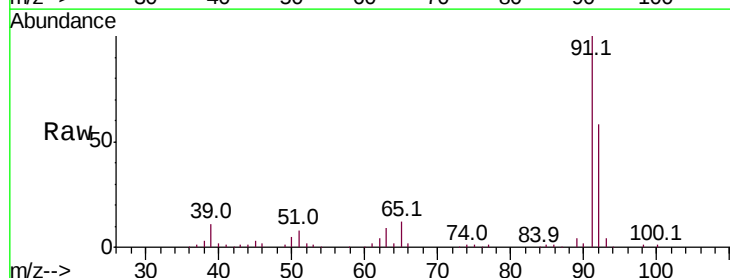
Acq: 04 Oct 2018 10:03

Tgt Ion: 92 Resp: 71034

Ion Ratio Lower Upper

92 100

91 169.9 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

80000

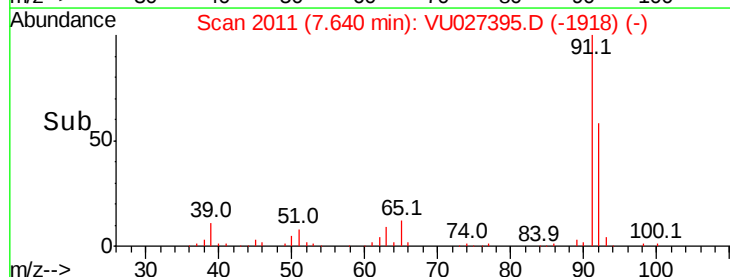
60000

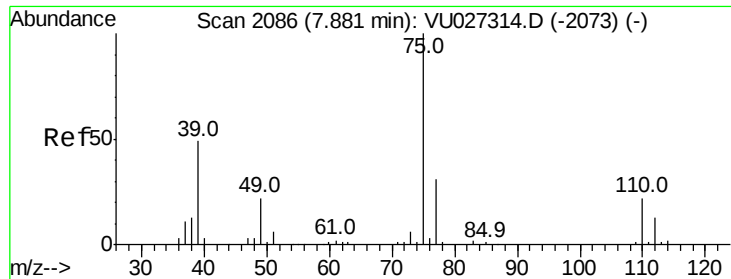
40000

20000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 19.138 ug/l

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 75 Resp: 46469

Ion Ratio Lower Upper

75 100

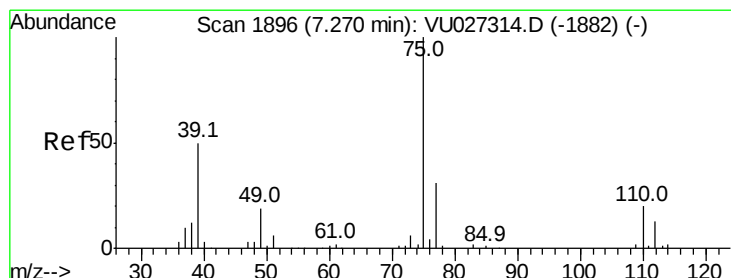
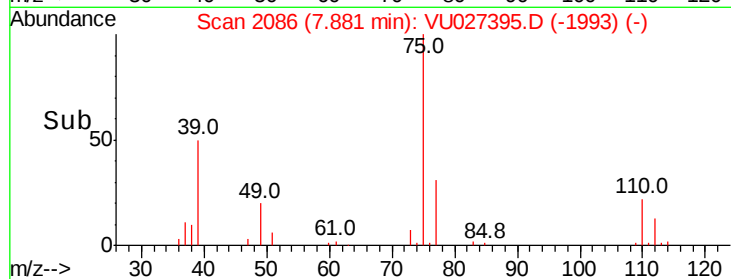
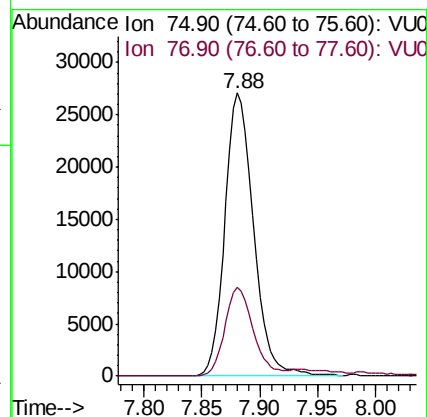
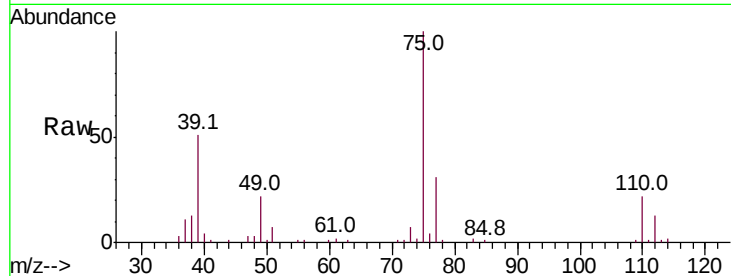
77 31.5 25.0 37.6

Manual Integrations

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10/8/2018 1:52:29 PM



#54

cis-1,3-Dichloropropene

Concen: 19.540 ug/l

RT: 7.27 min Scan# 1896

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

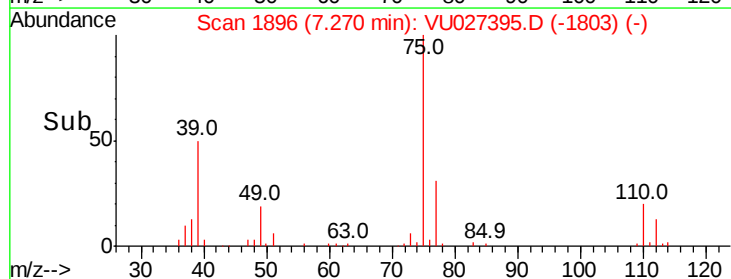
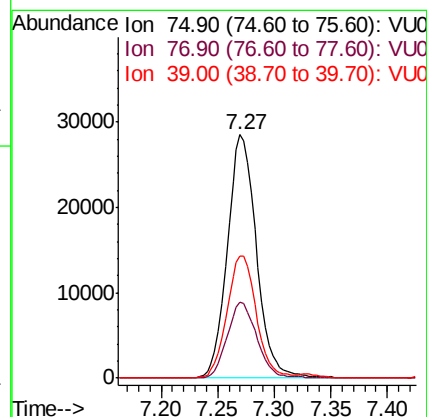
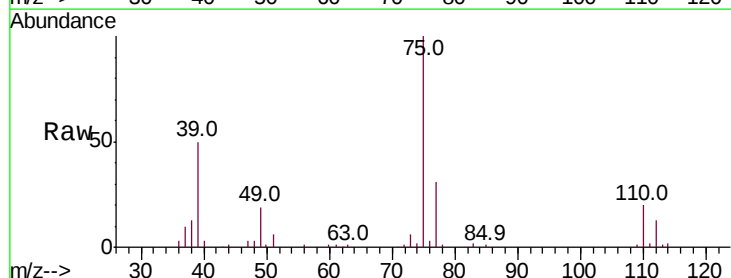
Tgt Ion: 75 Resp: 51004

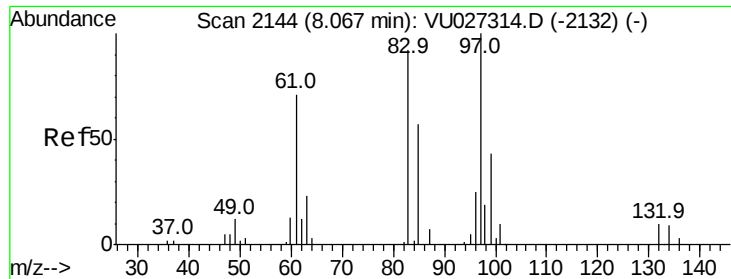
Ion Ratio Lower Upper

75 100

77 31.3 24.5 36.7

39 50.2 40.1 60.1





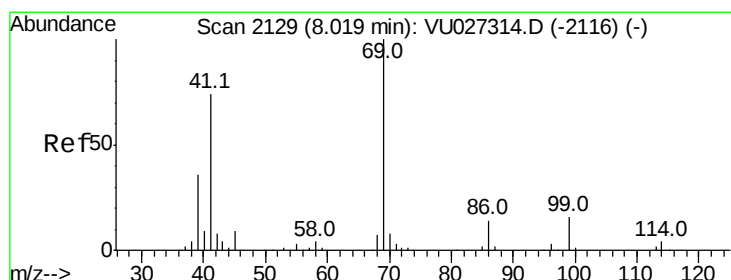
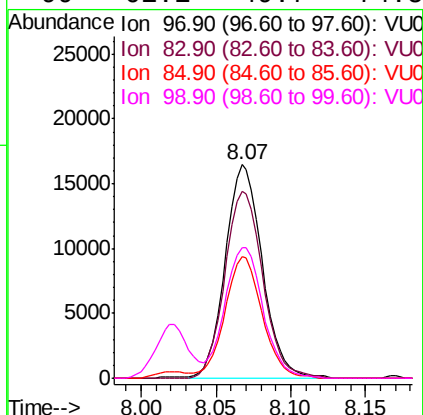
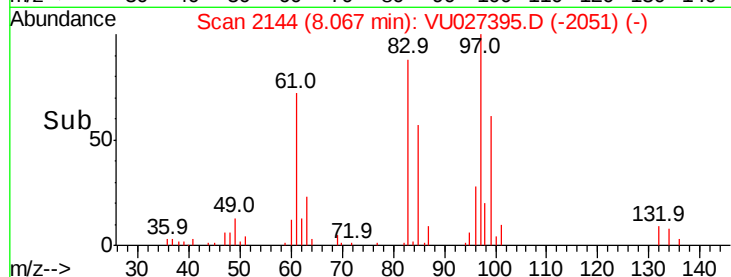
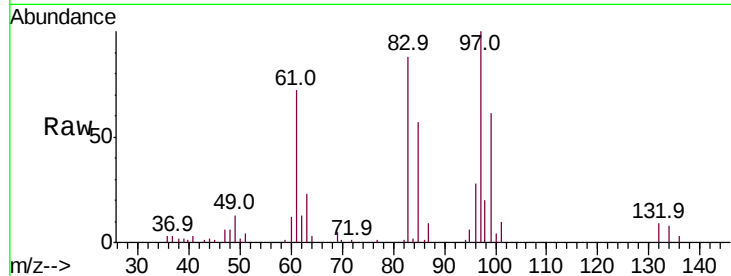
#55
 1,1,2-Trichloroethane
 Concen: 19.785 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion:	97	Resp:	28446
Ion	Ratio	Lower	Upper
97	100		
83	87.8	73.0	109.6
85	57.2	47.3	70.9
99	61.1	49.7	74.5

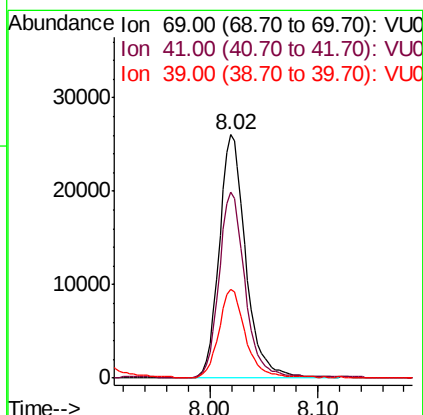
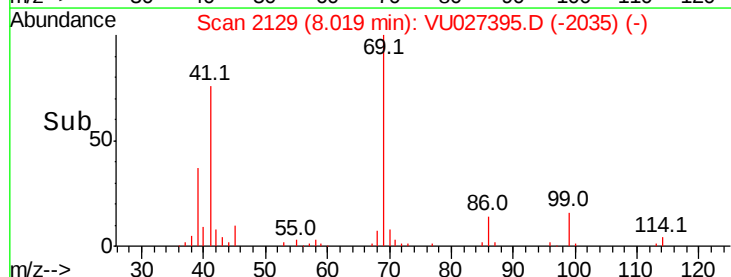
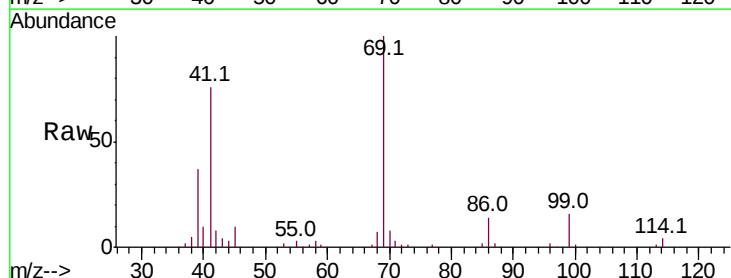
Manual Integrations
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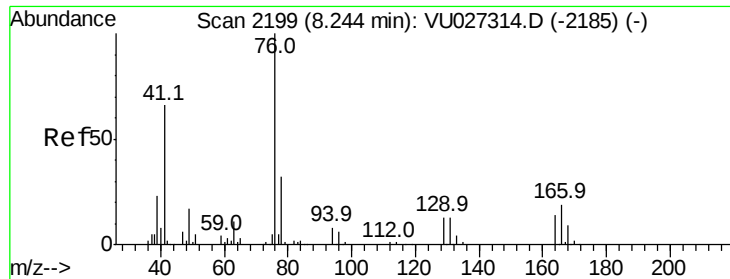
MMDadoda
 10/8/2018 1:52:29 PM



#56
 Ethyl methacrylate
 Concen: 17.712 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion:	69	Resp:	44535
Ion	Ratio	Lower	Upper
69	100		
41	75.1	60.0	90.0
39	37.2	29.5	44.3





#57

1,3-Dichloropropane

Concen: 19.204 ug/l

RT: 8.24 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 76 Resp: 53599

Ion Ratio Lower Upper

76 100

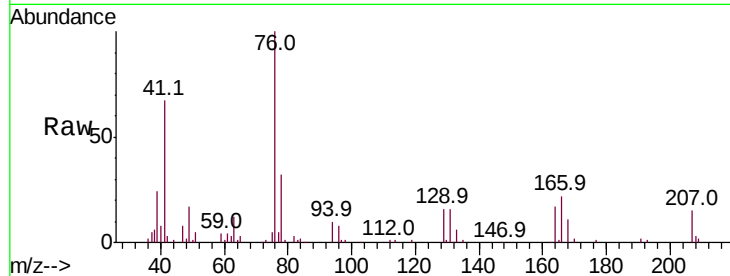
78 32.0 25.8 38.6

Manual Integrations

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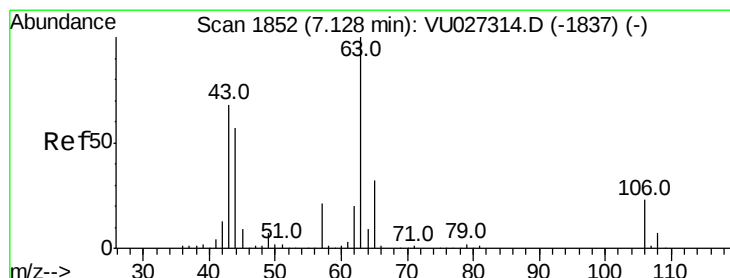
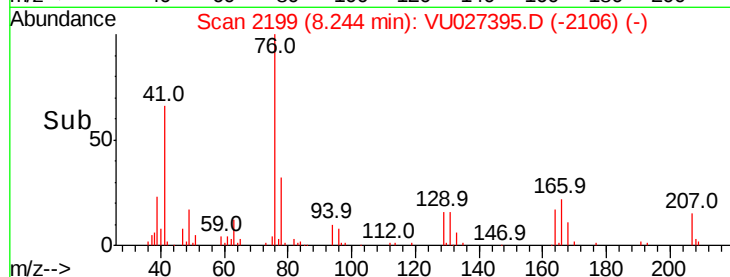
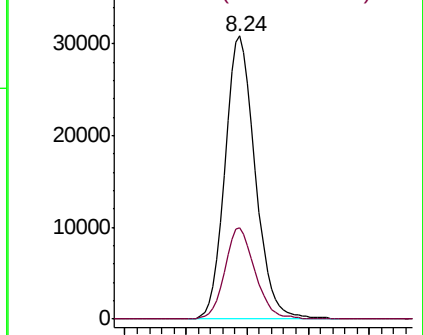
MMDadoda

10/8/2018 1:52:29 PM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 92.698 ug/l

RT: 7.13 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VU027395.D

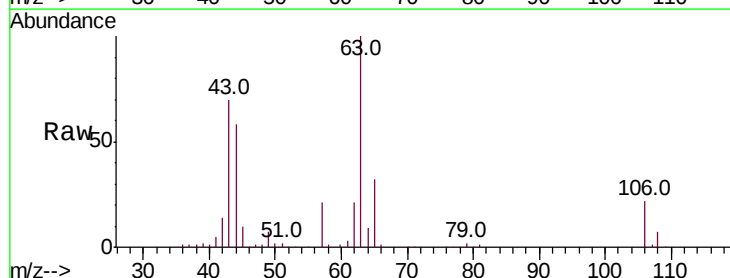
Acq: 04 Oct 2018 10:03

Tgt Ion: 63 Resp: 132061

Ion Ratio Lower Upper

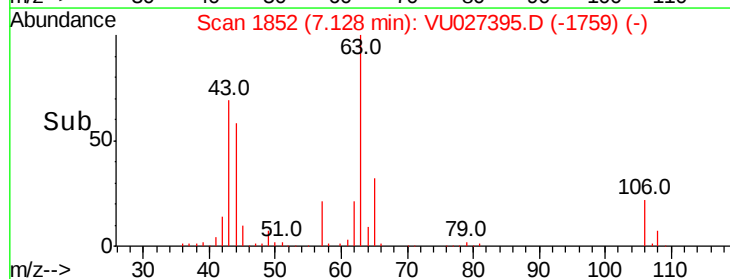
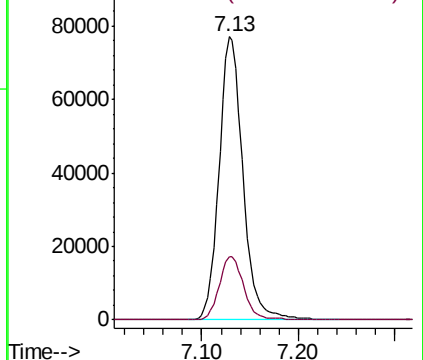
63 100

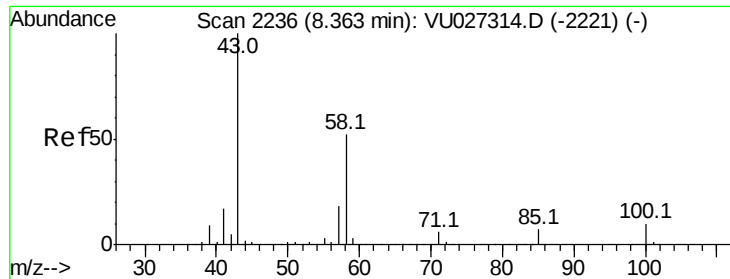
106 23.0 18.5 27.7



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





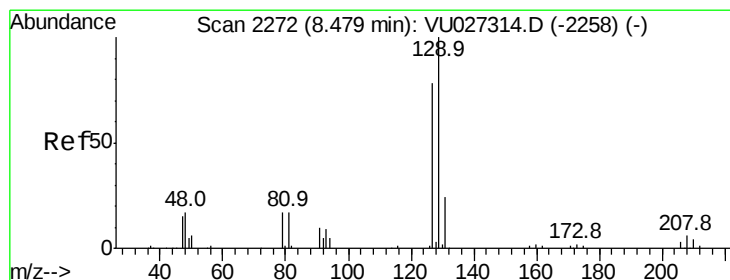
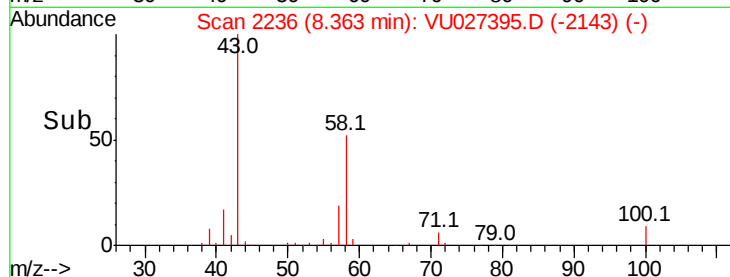
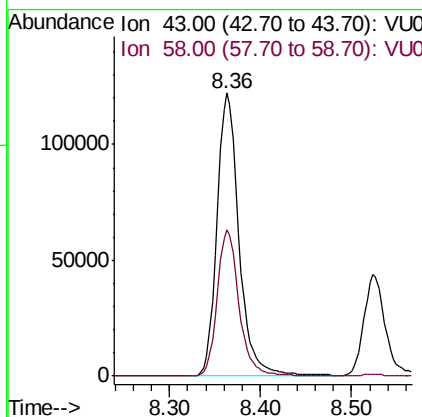
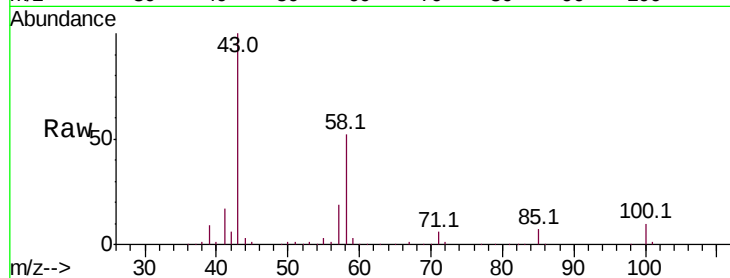
#59
2-Hexanone
Concen: 96.743 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion: 43 Resp: 205874
Ion Ratio Lower Upper
43 100
58 51.3 26.1 78.3

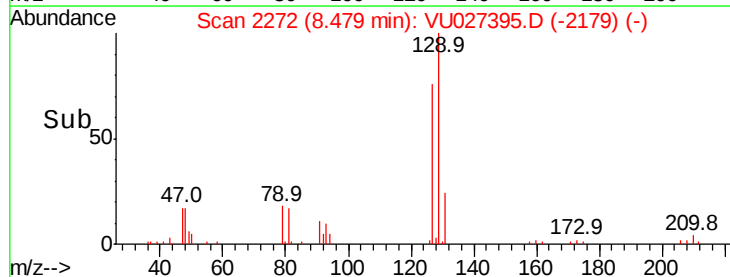
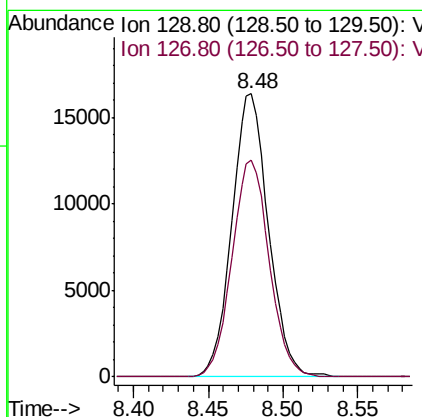
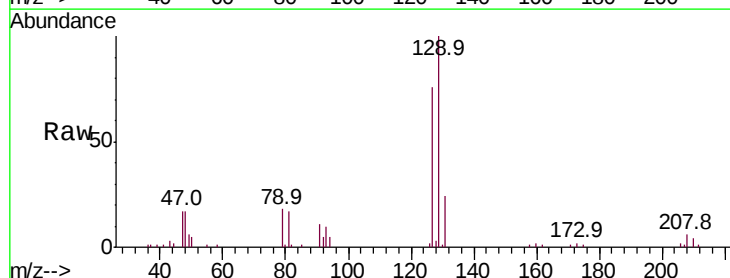
Manual Integrations
APPROVED

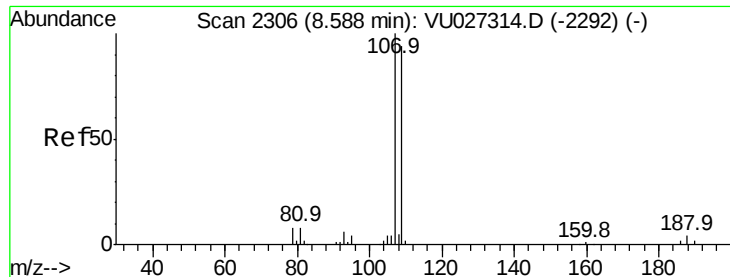
MMDadoda
10/8/2018 1:52:29 PM



#60
Dibromochloromethane
Concen: 19.330 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion: 129 Resp: 27874
Ion Ratio Lower Upper
129 100
127 78.0 39.1 117.2





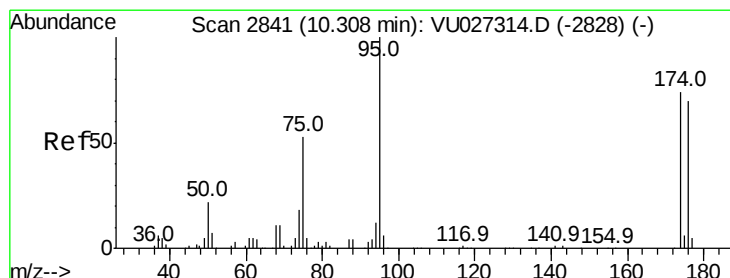
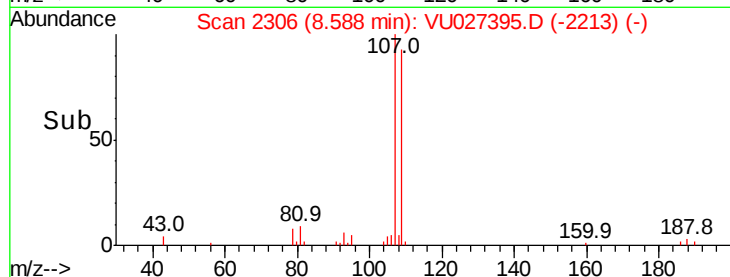
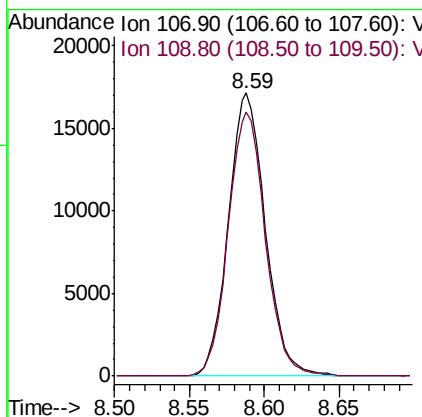
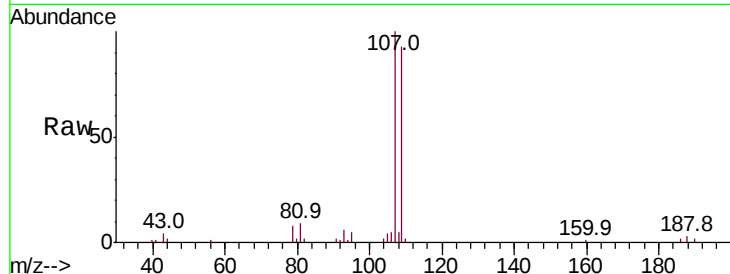
#61
 1,2-Dibromoethane
 Concen: 19.270 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.8	74.5	111.7

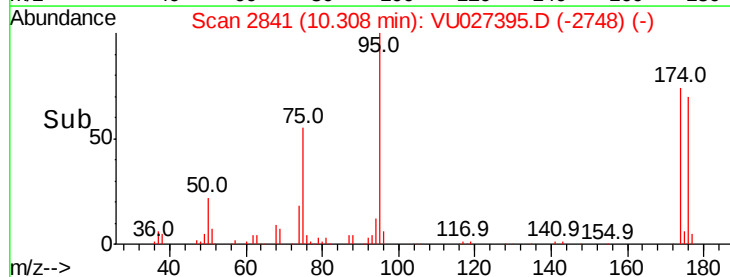
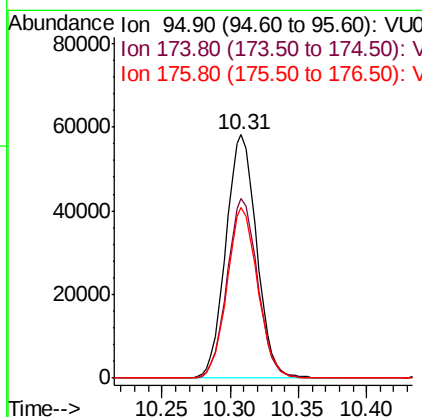
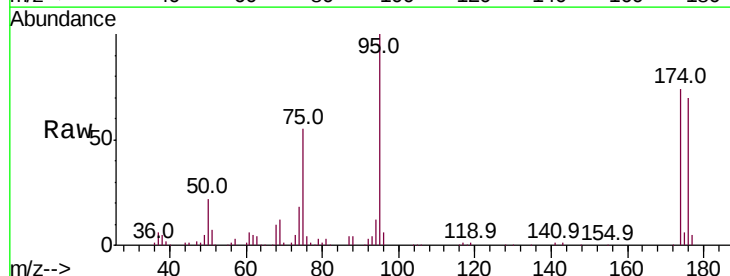
Manual Integrations
 APPROVED

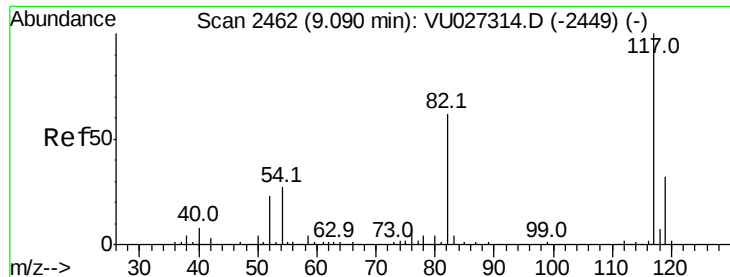
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 10/8/2018 1:52:29 PM



#62
 4-Bromofluorobenzene
 Concen: 49.433 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	147.8
176	69.6	0.0	140.8





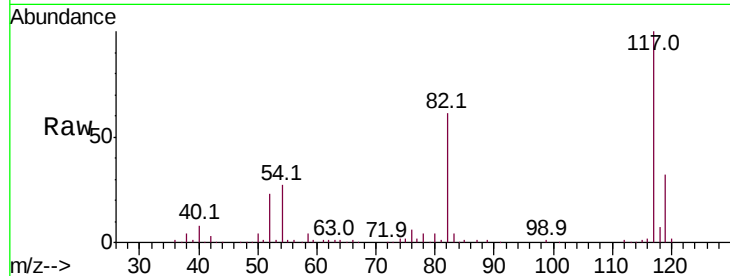
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.4	49.2	73.8
119	32.2	25.7	38.5

Manual Integrations
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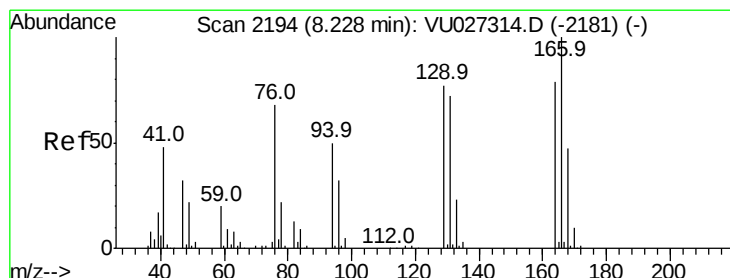
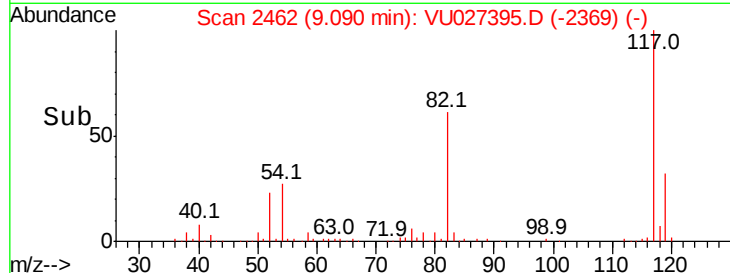
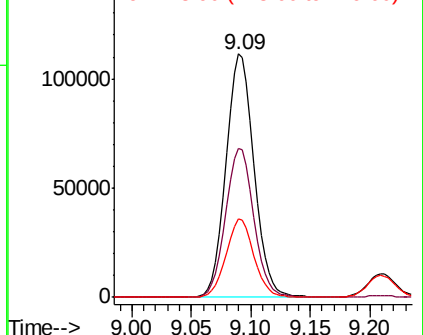


Abundance

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: 19.158 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.0	151.6
129	97.8	78.0	117.0
131	93.5	72.6	109.0

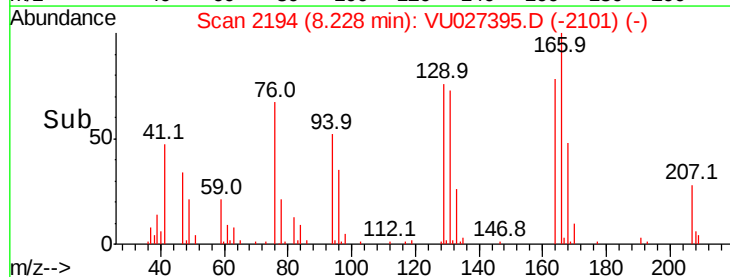
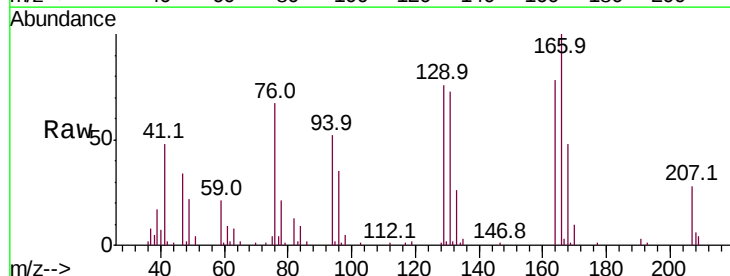
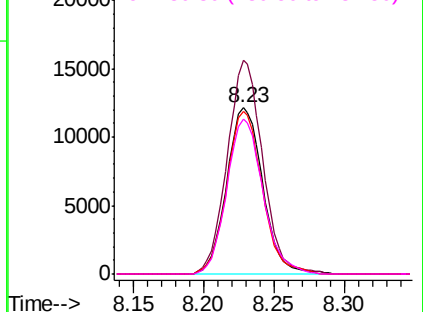
Abundance

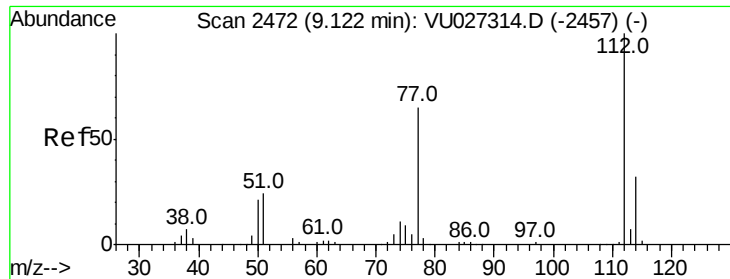
Ion 163.80 (163.50 to 164.50): V

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: 19.291 ug/l

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion:112 Resp: 74082

Ion Ratio Lower Upper

112 100

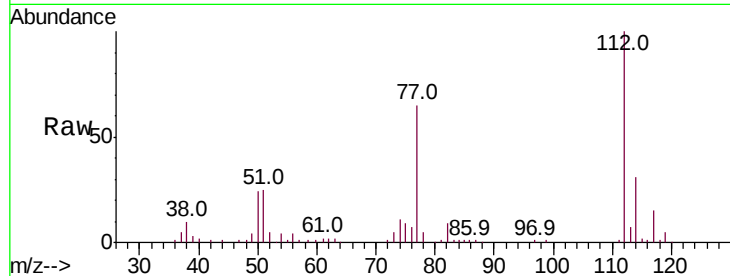
114 31.4 25.8 38.6

Manual Integrations

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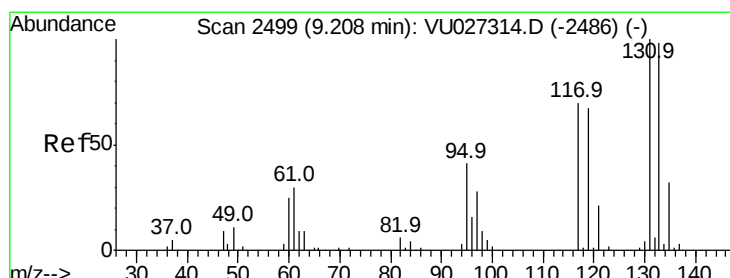
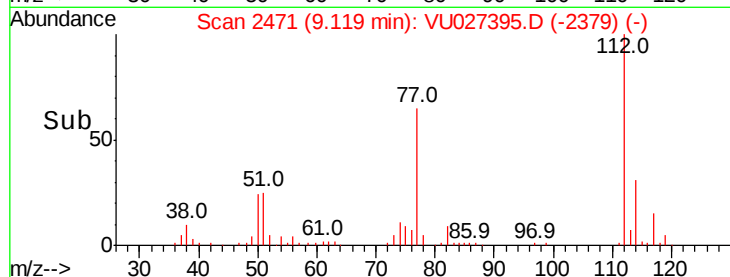
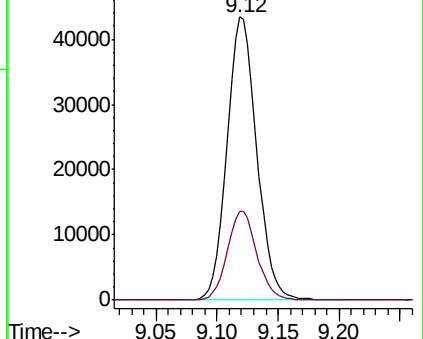
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 18.969 ug/l

RT: 9.21 min Scan# 2499

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

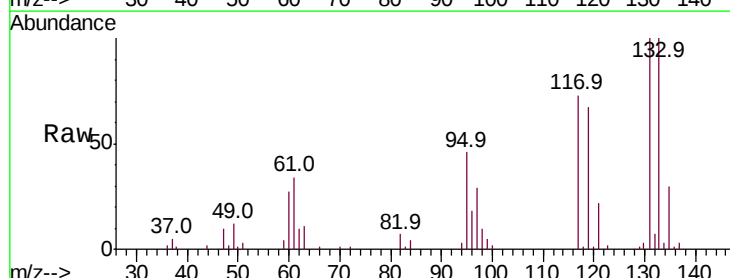
Tgt Ion:131 Resp: 25148

Ion Ratio Lower Upper

131 100

133 97.7 48.5 145.6

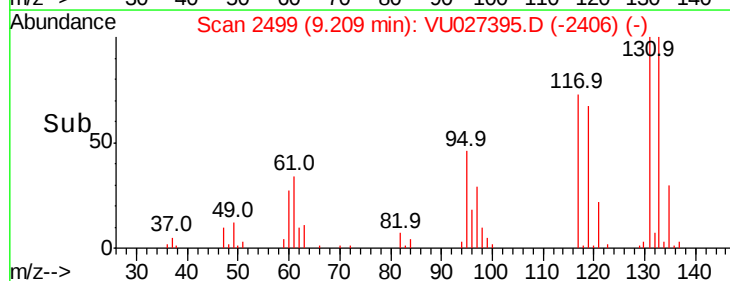
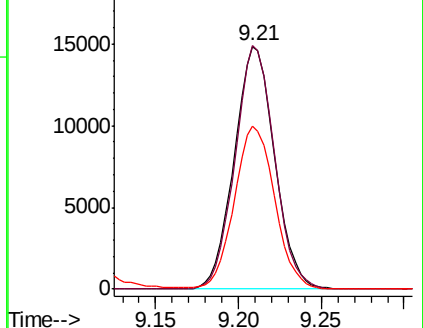
119 67.1 33.5 100.4

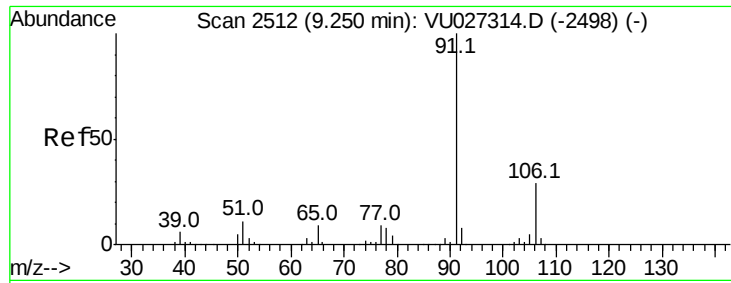


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





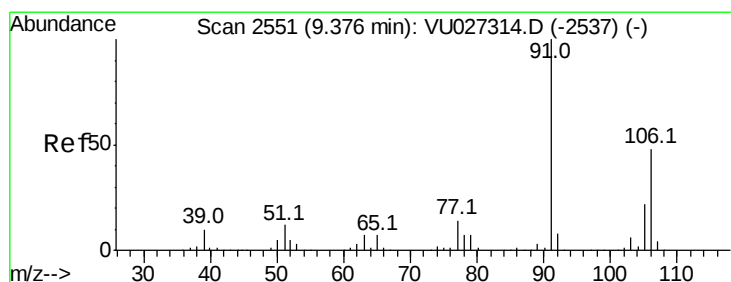
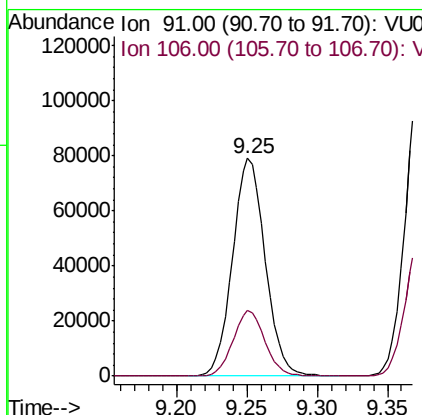
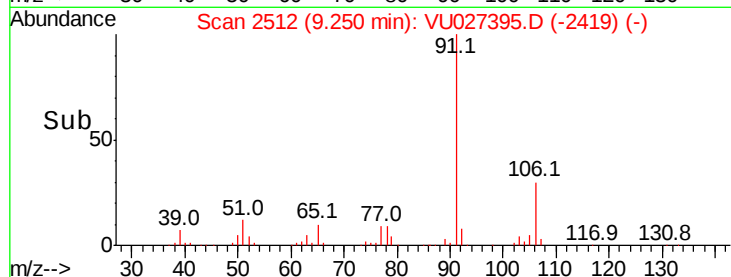
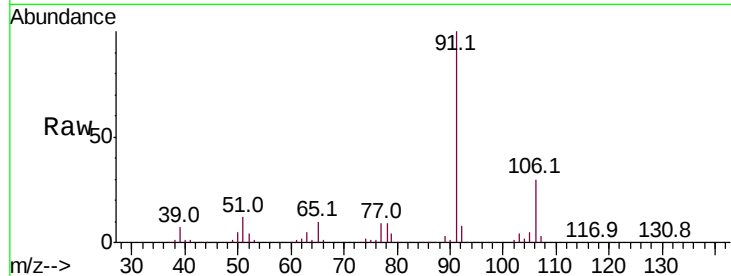
#67
Ethyl Benzene
Concen: 18.854 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion: 91 Resp: 128278
Ion Ratio Lower Upper
91 100
106 29.9 23.6 35.4

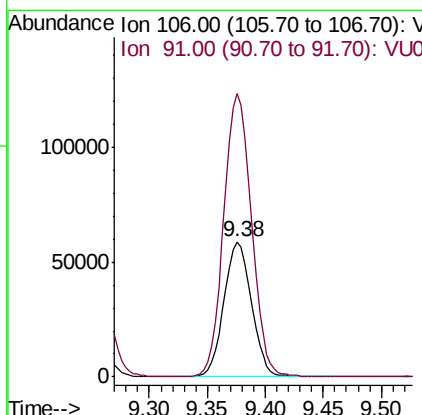
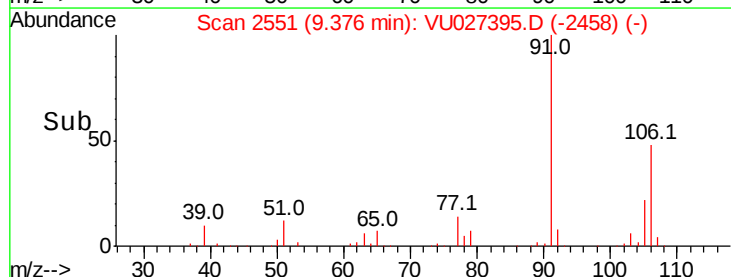
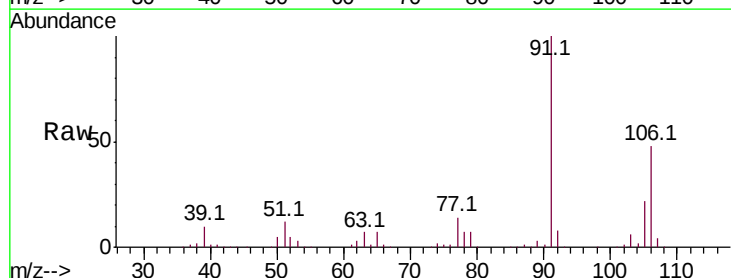
Manual Integrations
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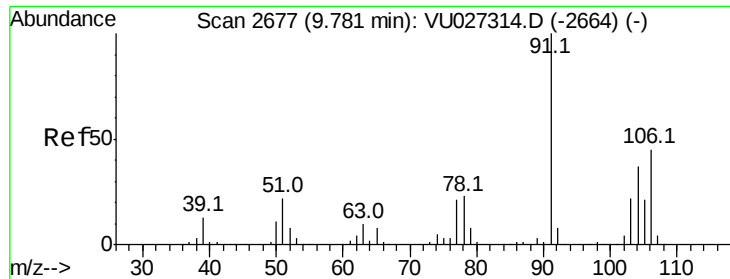
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#68
m/p-Xylenes
Concen: 38.866 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion: 106 Resp: 96728
Ion Ratio Lower Upper
106 100
91 211.6 168.1 252.1





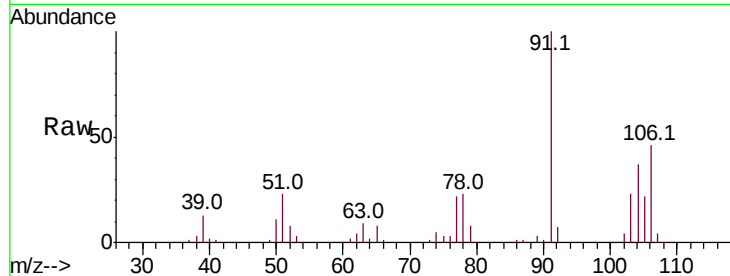
#69
o-Xylene
Concen: 19.160 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

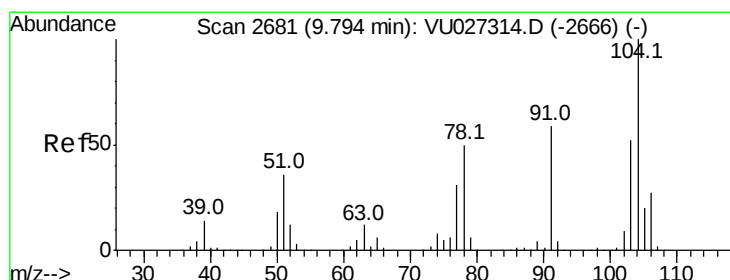
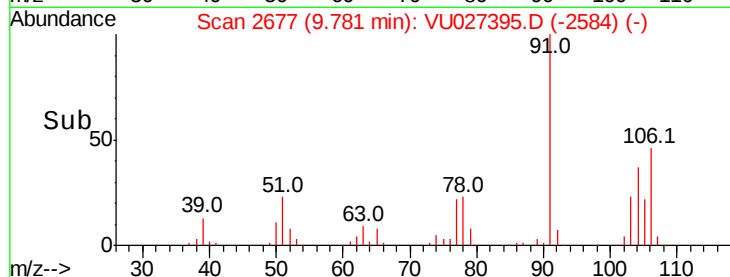
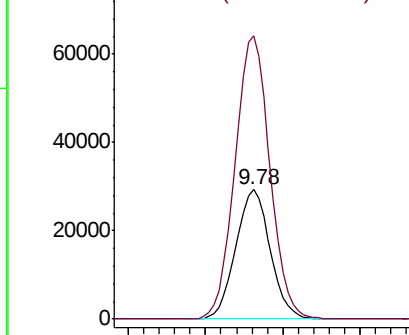
Tot Ion:106 Resp: 45314
Ion Ratio Lower Upper
106 100
91 221.1 111.7 334.9

Manual Integrations
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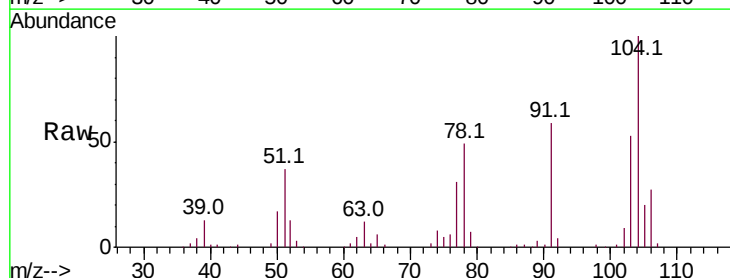


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

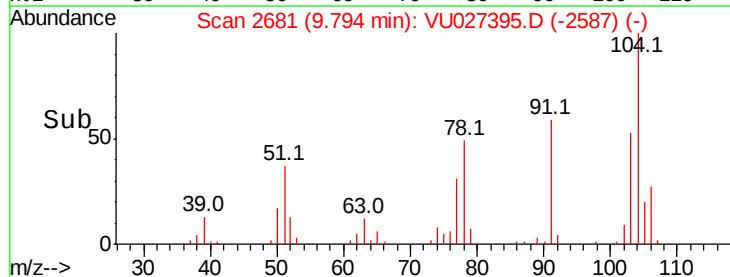
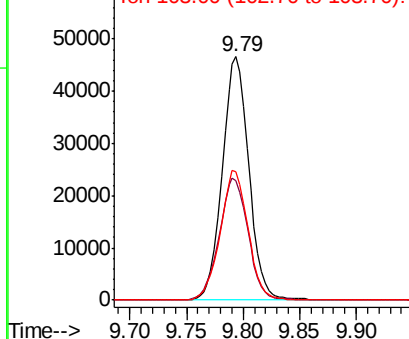


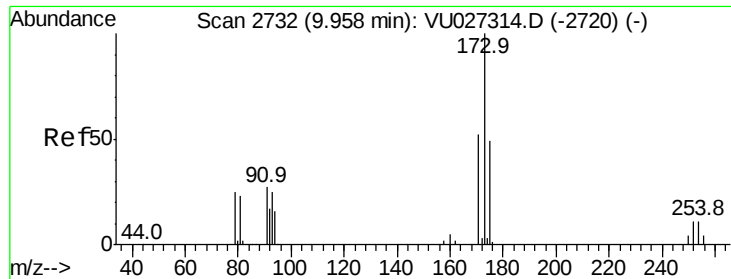
#70
Styrene
Concen: 18.723 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion:104 Resp: 76107
Ion Ratio Lower Upper
104 100
78 54.4 42.9 64.3
103 55.7 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





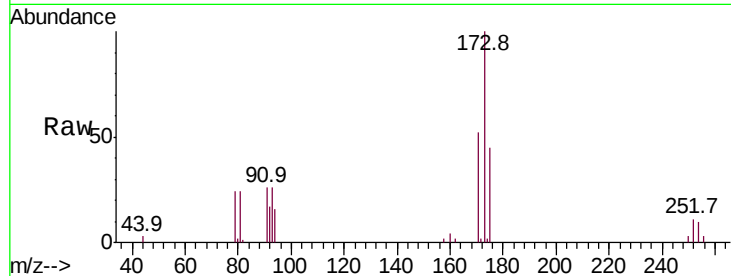
#71
Bromoform
Concen: 18.933 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.2	24.3	73.0
254	0.0	0.0	0.0

Manual Integrations
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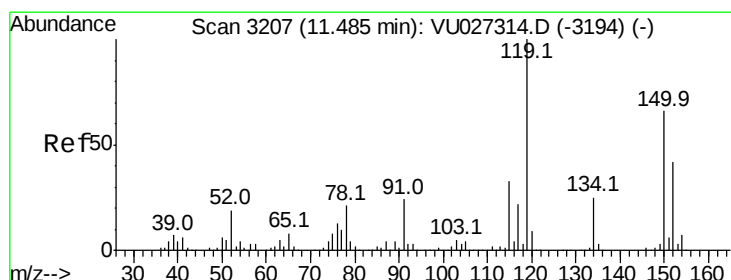
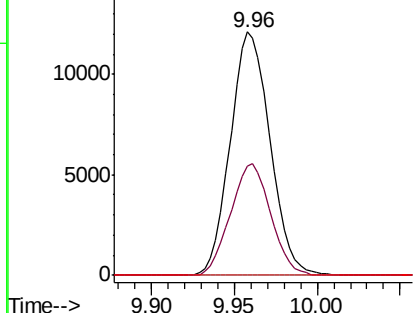
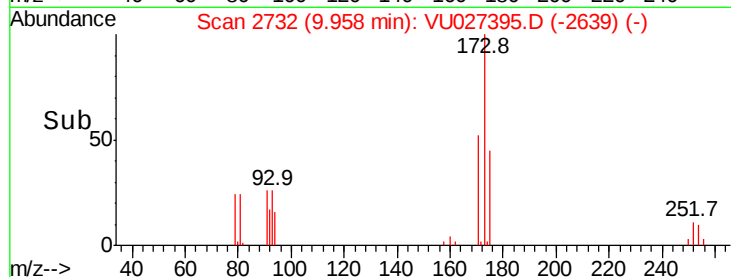


Abundance

Ion 172.70 (172.40 to 173.40): V

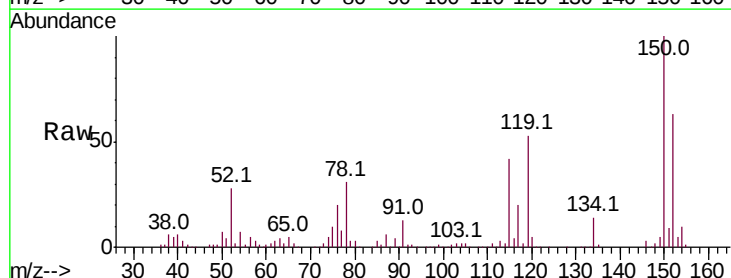
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	70.0	43.4	130.2
150	162.3	0.0	349.2

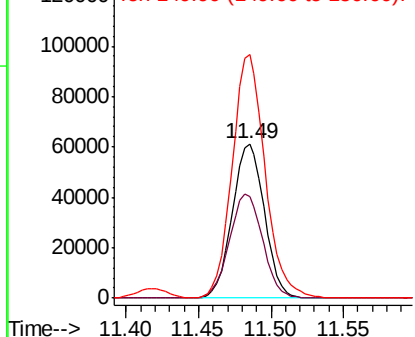
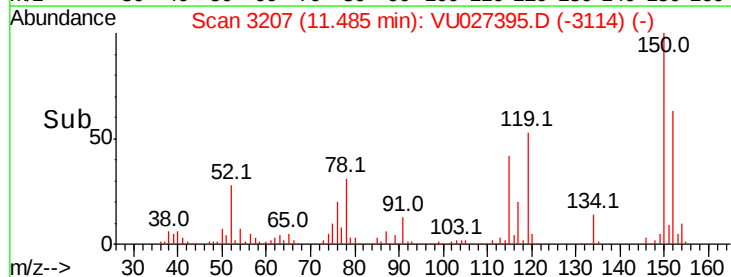


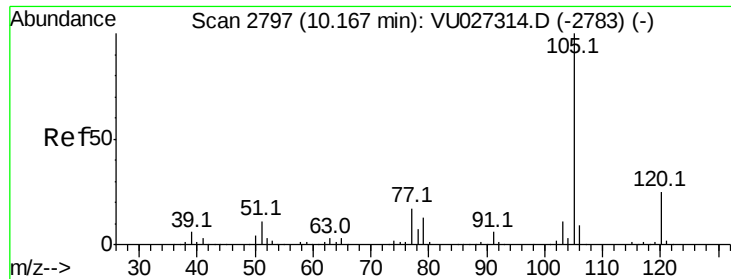
Abundance

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: 18.332 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 105 Resp: 124713

Ion Ratio Lower Upper

105 100

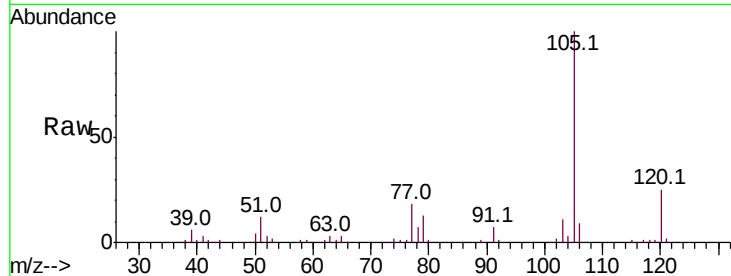
120 25.2 12.6 37.8

Manual Integrations

APPROVED

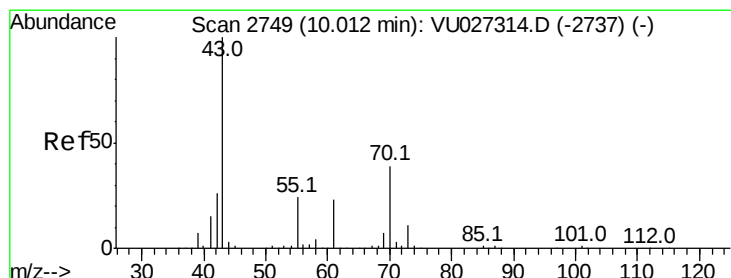
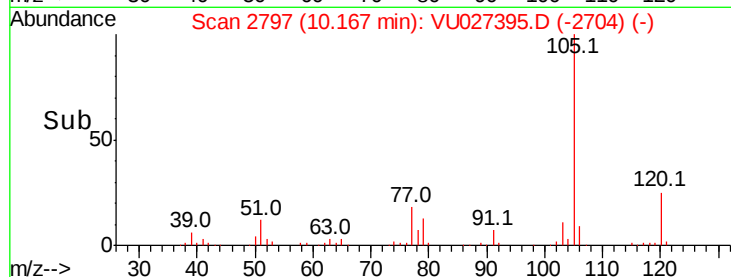
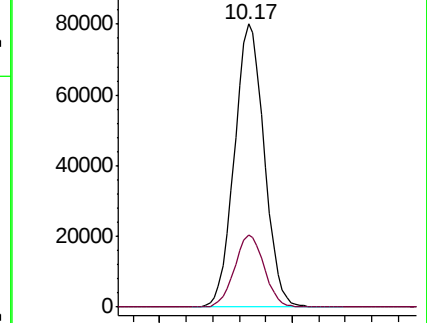
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.631 ug/l

RT: 10.02 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Tgt Ion: 43 Resp: 68666

Ion Ratio Lower Upper

43 100

70 38.6 31.3 46.9

55 24.1 19.0 28.6

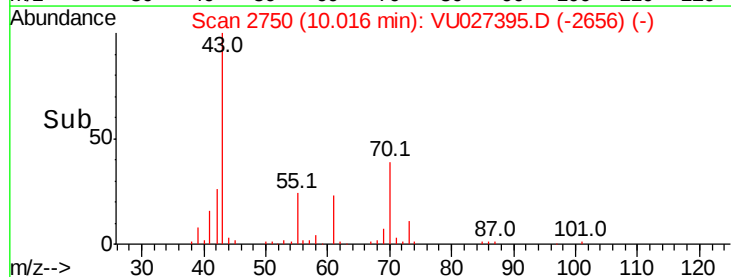
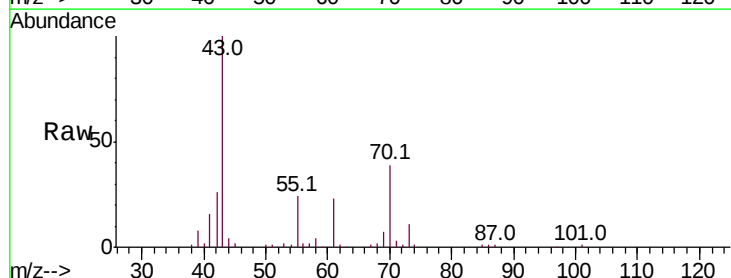
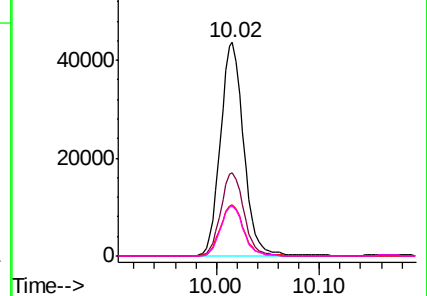
61 22.8 18.5 27.7

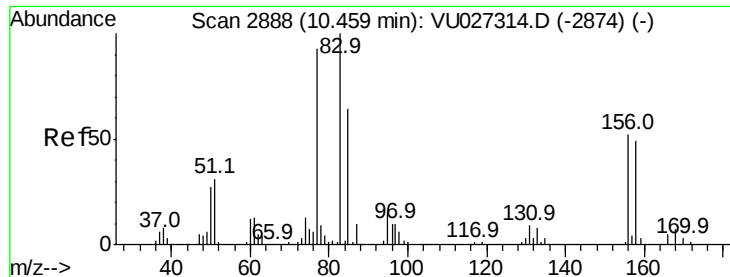
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 18.324 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

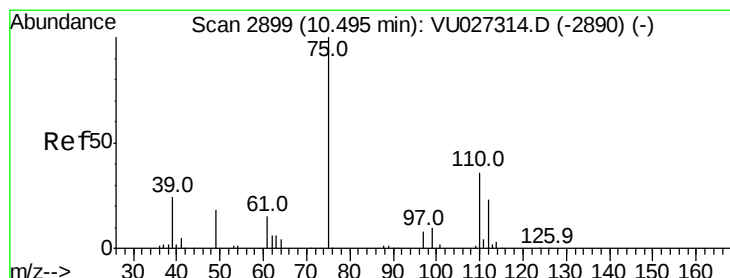
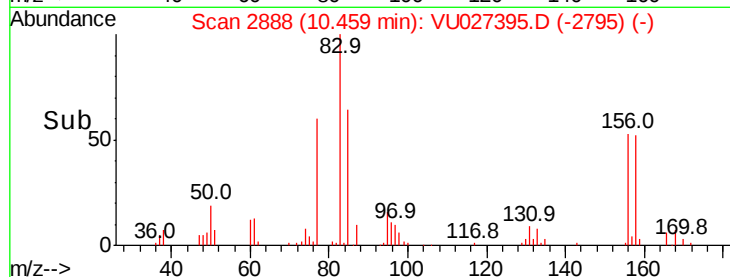
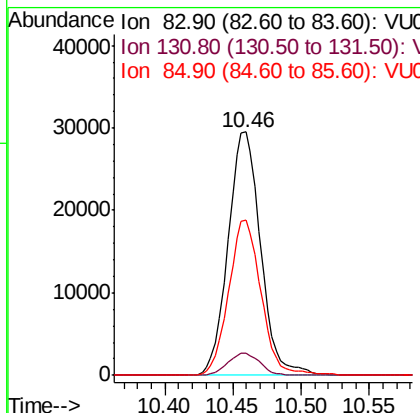
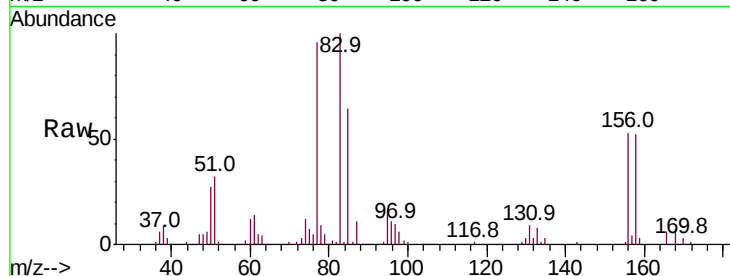
ClientSampleId :

VU1004MBS02

Tot Ion:	83	Resp:	48948
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.4	13.2
85	63.7	32.0	96.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.323 ug/l m

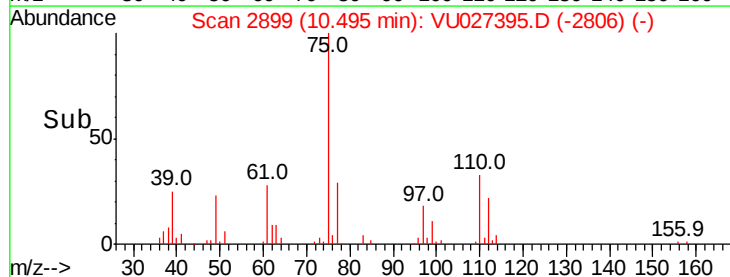
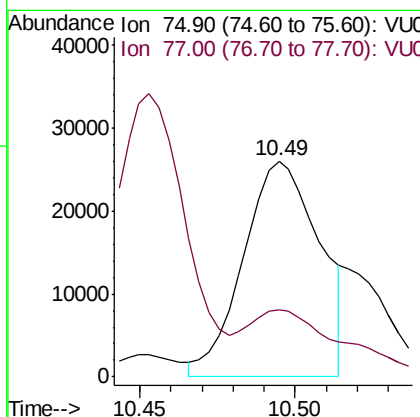
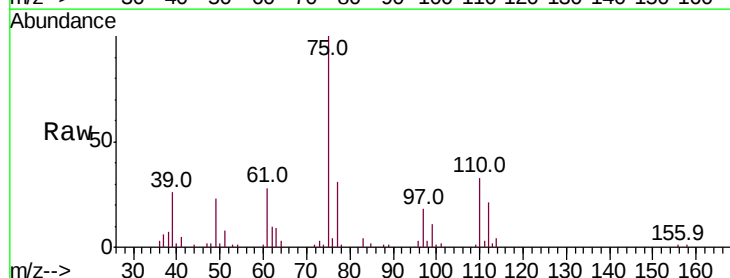
RT: 10.49 min Scan# 2899

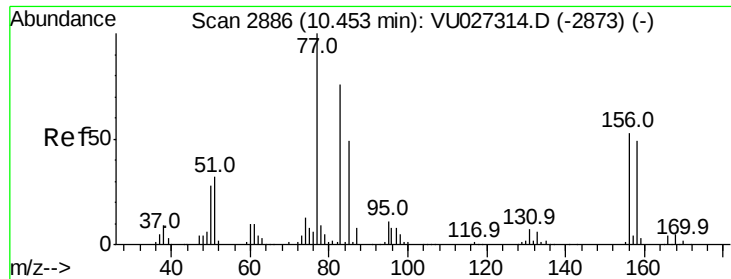
Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Tgt Ion:	75	Resp:	44490
Ion Ratio	Lower	Upper	
75	100		
77	37.8	20.3	60.9





#77

Bromobenzene

Concen: 18.581 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

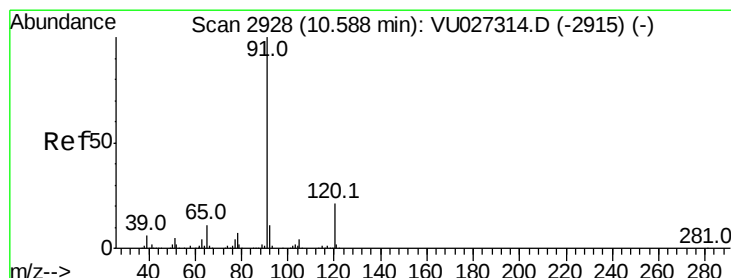
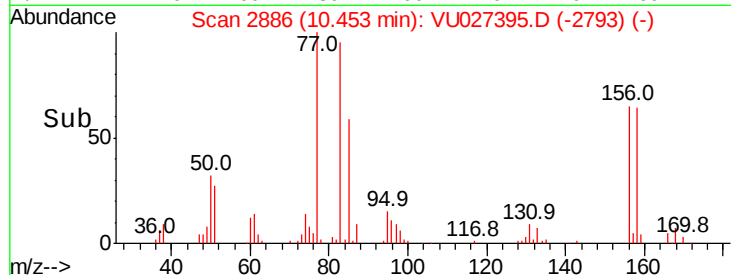
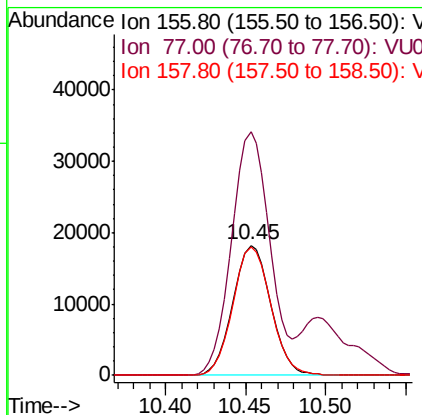
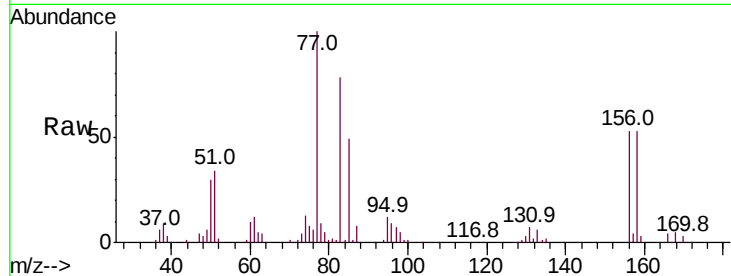
ClientSampleId :

VU1004MBS02

Tot Ion	Ratio	Lower	Upper
156	100		
77	189.8	94.8	284.4
158	98.7	47.4	142.3

Manual Integrations
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#78

n-propylbenzene

Concen: 19.002 ug/l

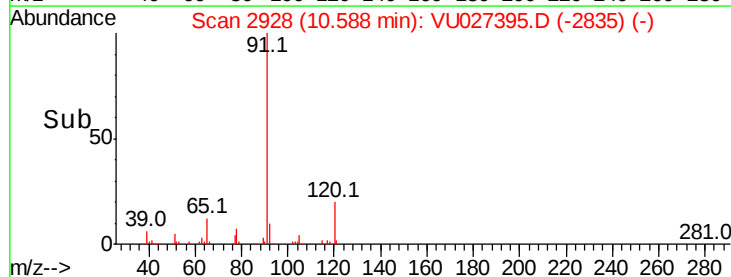
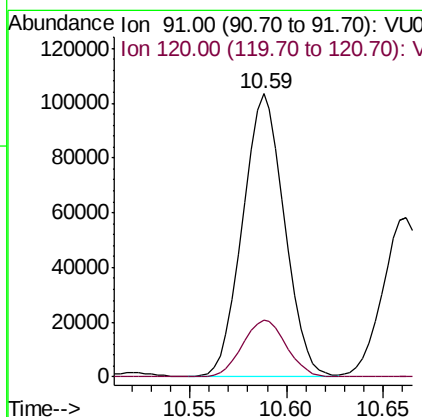
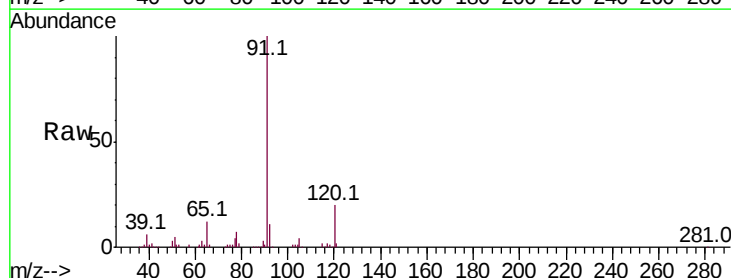
RT: 10.59 min Scan# 2928

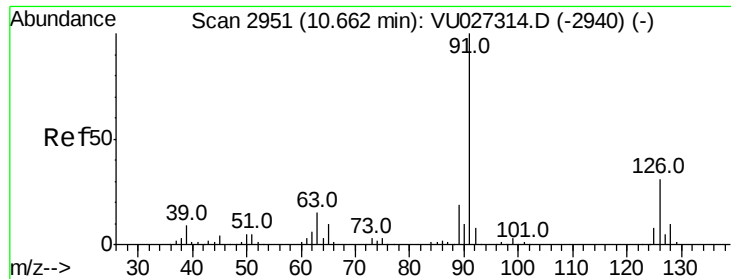
Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.0	10.6	31.8





#79

2-Chlorotoluene

Concen: 18.492 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU027395.D

Acq: 04 Oct 2018 10:03

Instrument :

MSVOA_U

ClientSampleId :

VU1004MBS02

Tot Ion: 91 Resp: 91270

Ion Ratio Lower Upper

91 100

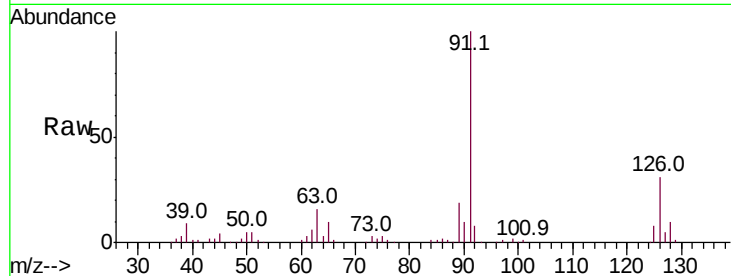
126 30.8 15.7 47.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU027314.D (-2940) (-)

Ion 125.90 (125.60 to 126.60): VU027314.D (-2940) (-)

120000

100000

80000

60000

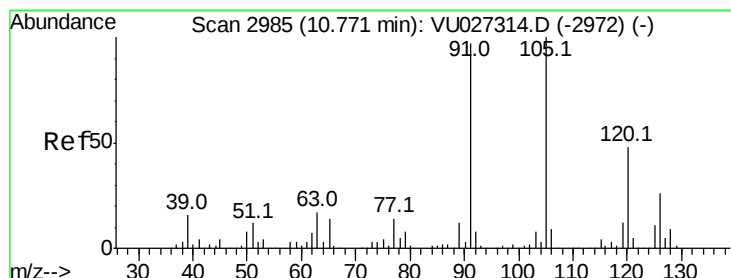
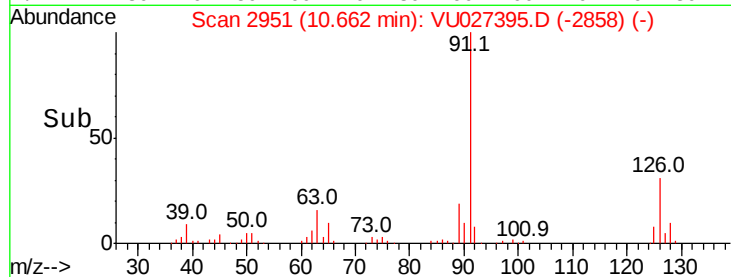
40000

20000

0

10.60 10.65 10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.973 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027395.D

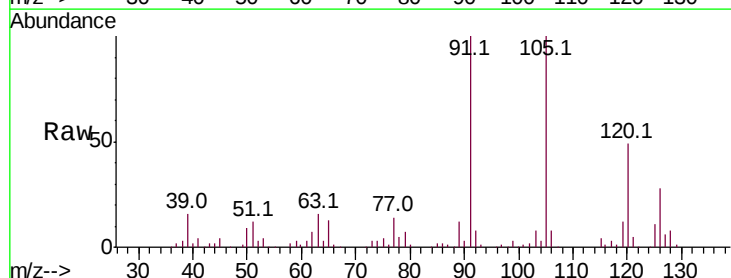
Acq: 04 Oct 2018 10:03

Tgt Ion:105 Resp: 105084

Ion Ratio Lower Upper

105 100

120 48.5 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VU027314.D (-2972) (-)

Ion 120.00 (119.70 to 120.70): VU027314.D (-2972) (-)

80000

60000

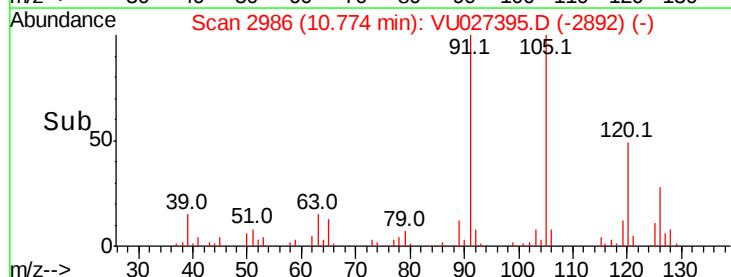
40000

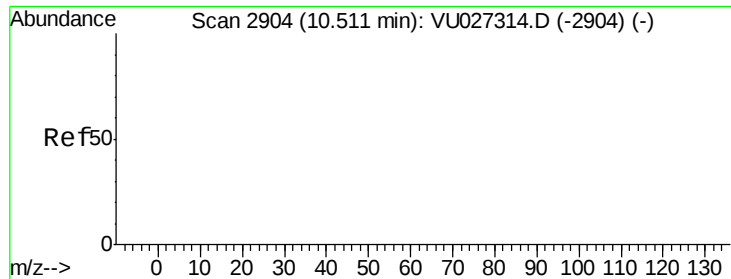
20000

0

10.70 10.80

Time-->





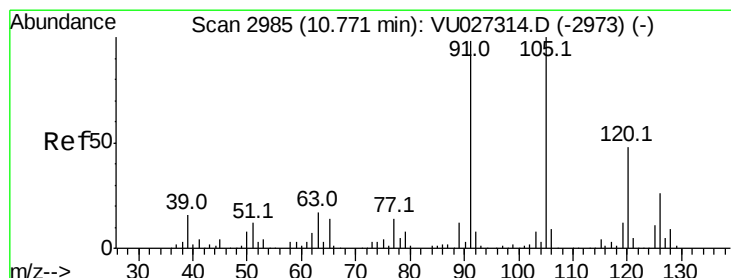
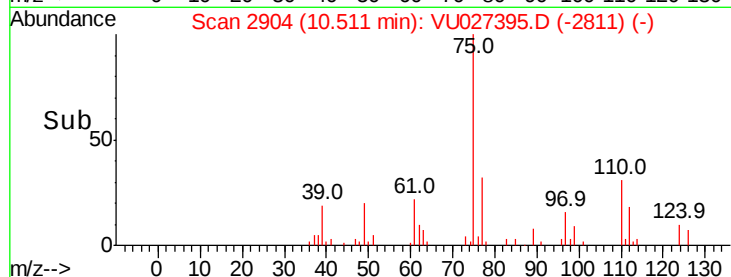
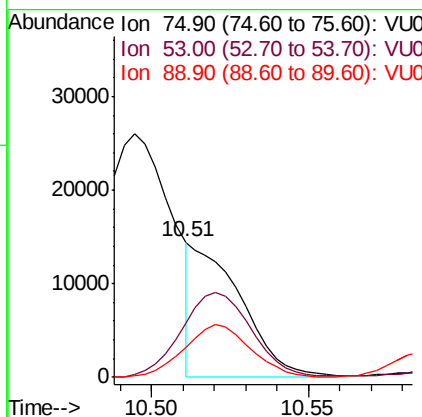
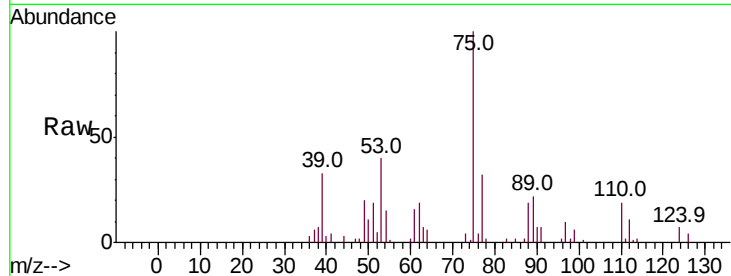
#81
trans-1,4-Dichloro-2-butene
Concen: 17.025 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

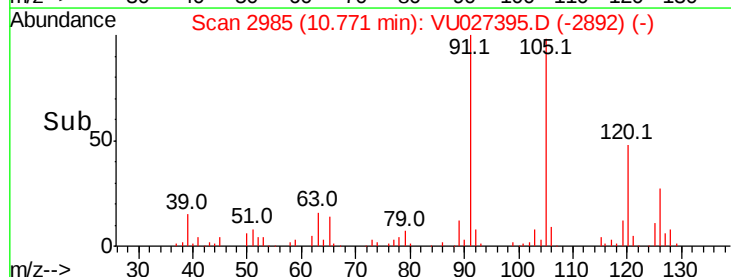
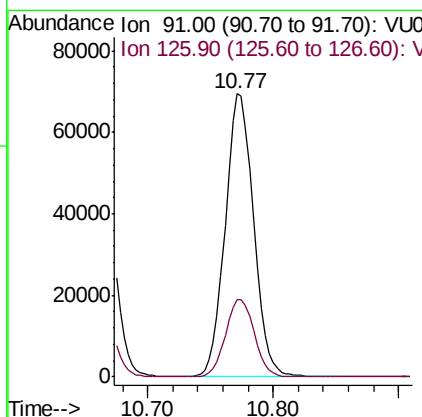
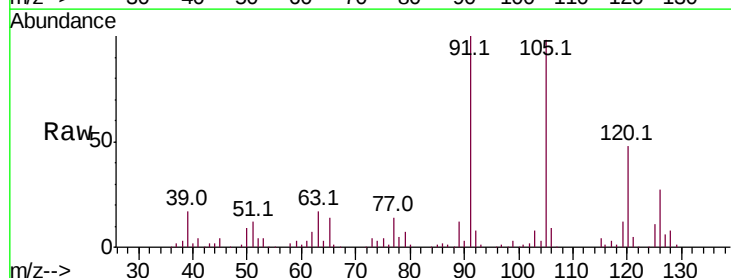
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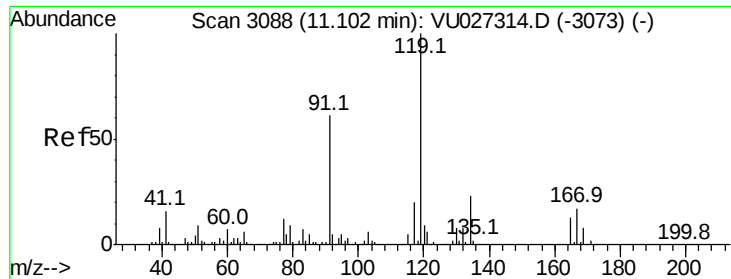
MMDadoda
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#82
4-Chlorotoluene
Concen: 19.351 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.9	13.6	40.8





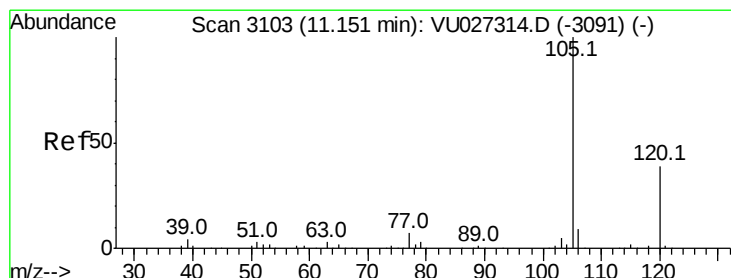
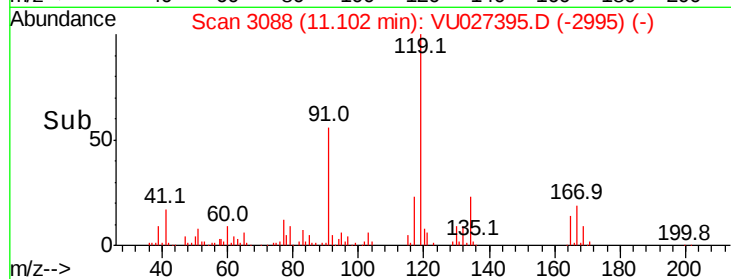
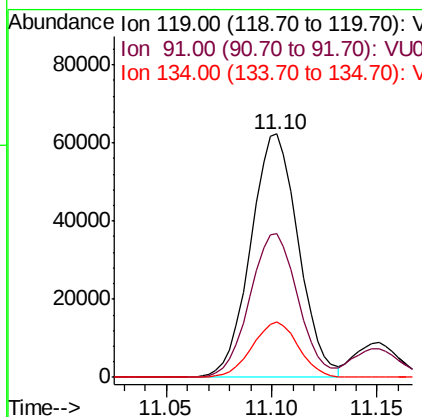
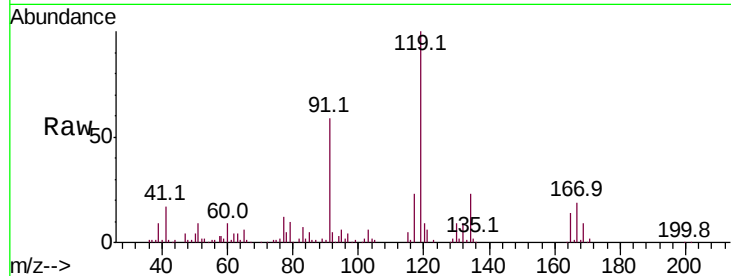
#83
tert-Butylbenzene
Concen: 18.336 ug/l
RT: 11.10 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	98175		
91	59.5	30.3	91.0	
134	22.1	11.5	34.4	

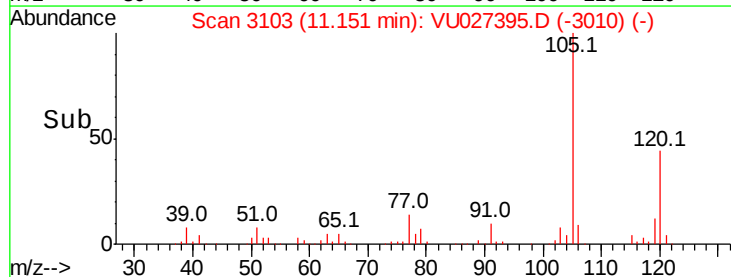
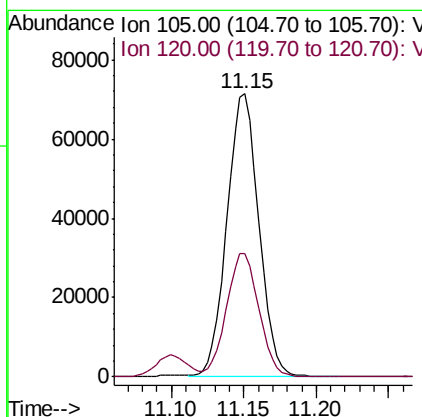
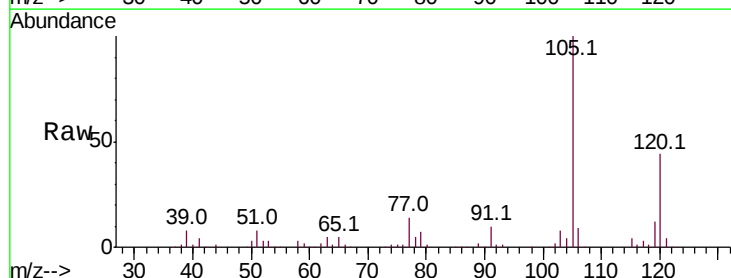
Manual Integrations
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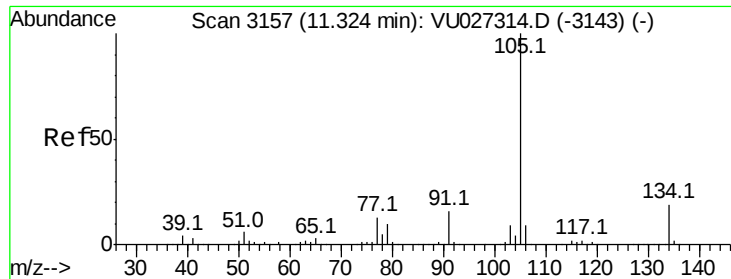
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 19.179 ug/l
RT: 11.15 min Scan# 3103
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	108507		
120	44.3	22.1	66.5	





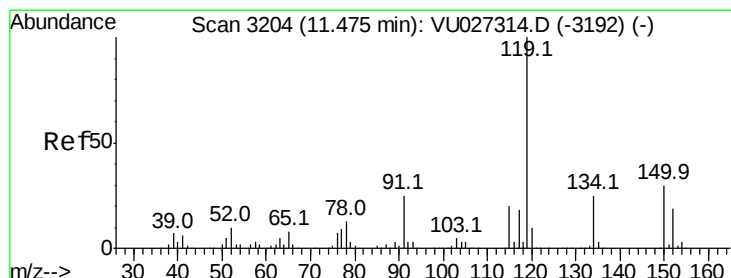
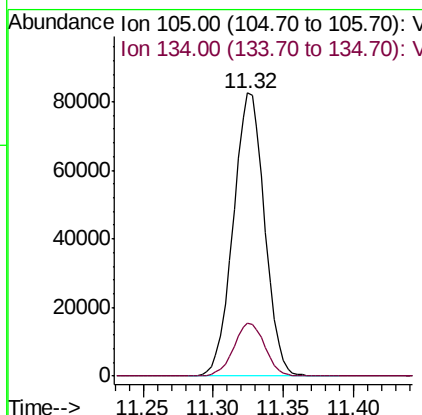
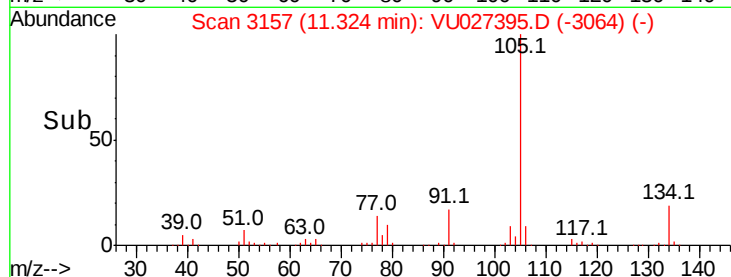
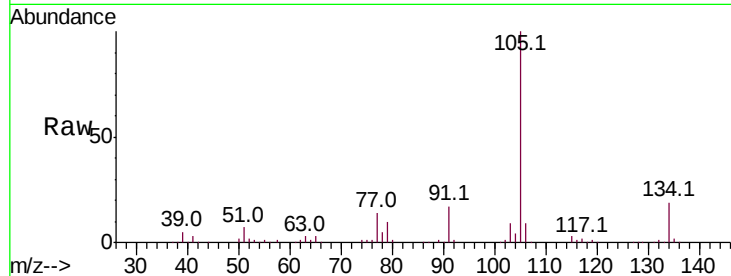
#85
 sec-Butylbenzene
 Concen: 19.019 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Resp	Lower	Upper
105	100	128310		
134	18.7	9.6	28.6	

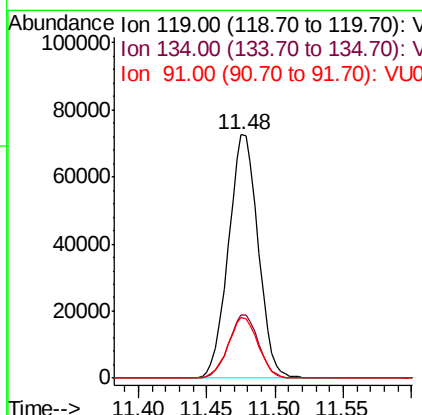
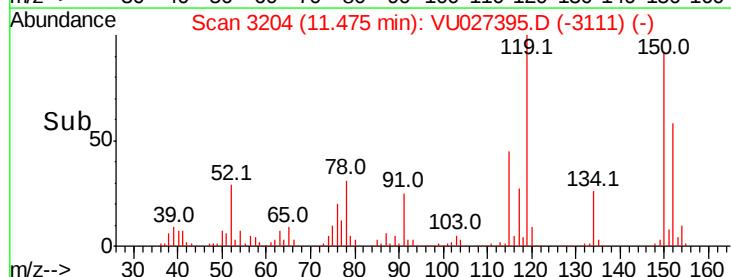
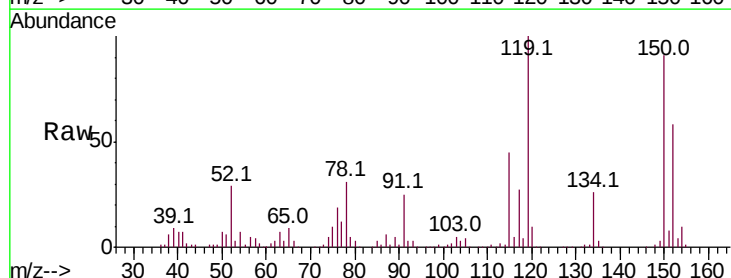
Manual Integrations
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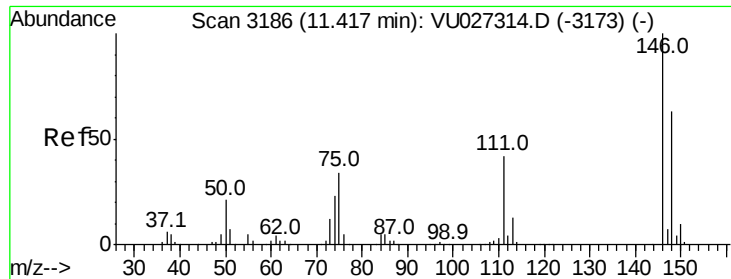
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#86
 p-Isopropyltoluene
 Concen: 19.016 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	109843		
134	26.0	12.7	38.1	
91	25.3	12.2	36.4	





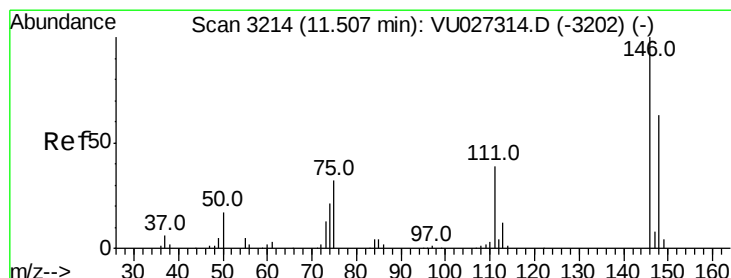
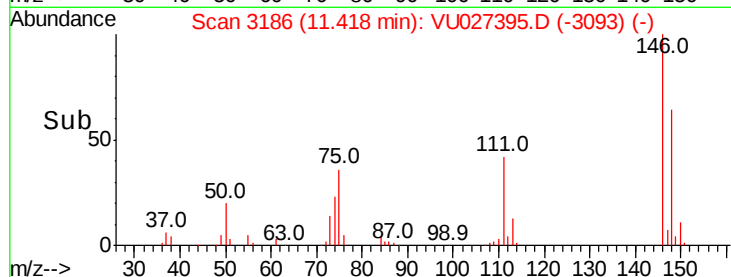
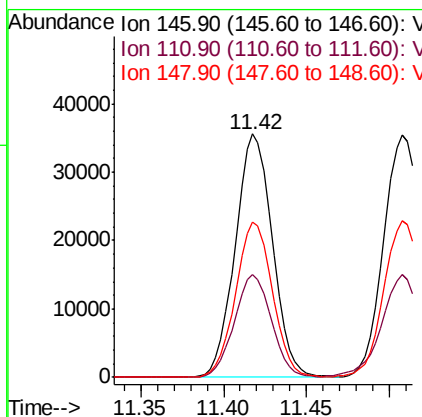
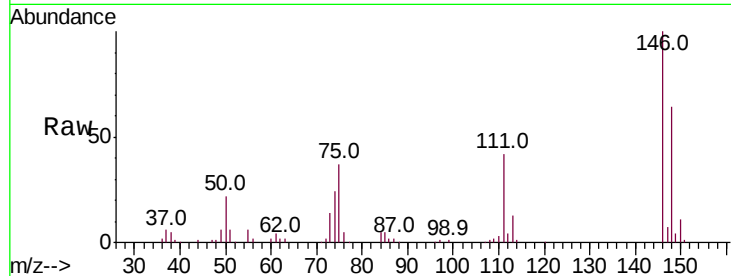
#87
 1,3-Dichlorobenzene
 Concen: 18.591 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.8	62.5
148	63.3	31.6	94.8

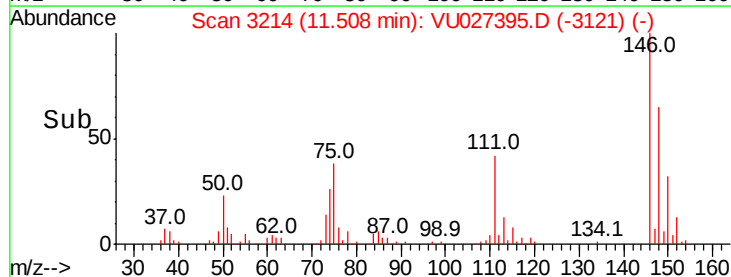
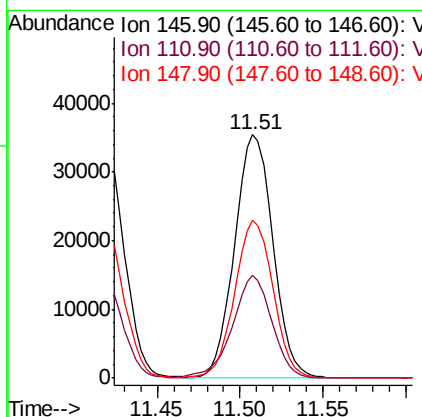
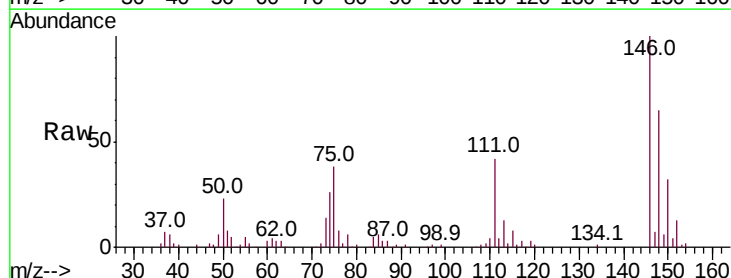
Manual Integrations
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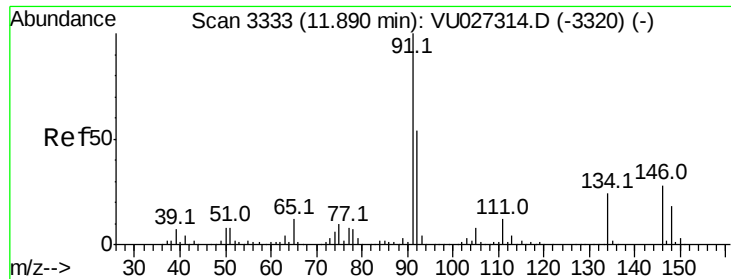
MMDadoda
 10/8/2018 1:52:29 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.691 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.4	61.2
148	64.8	31.9	95.5





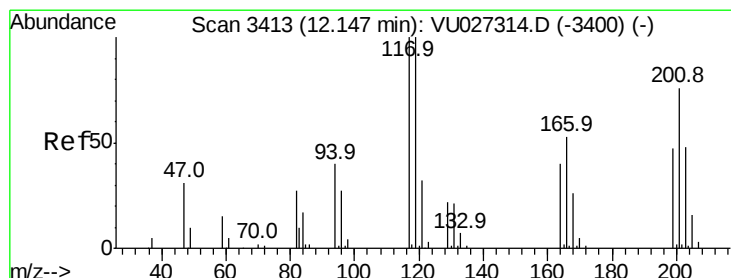
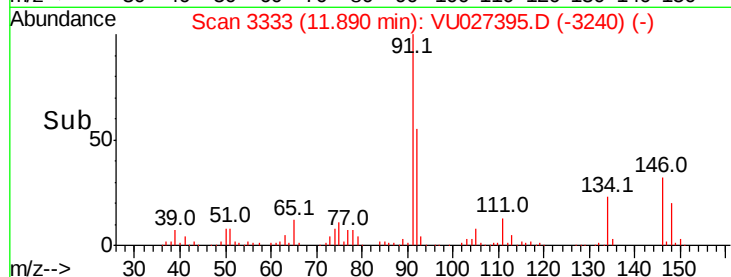
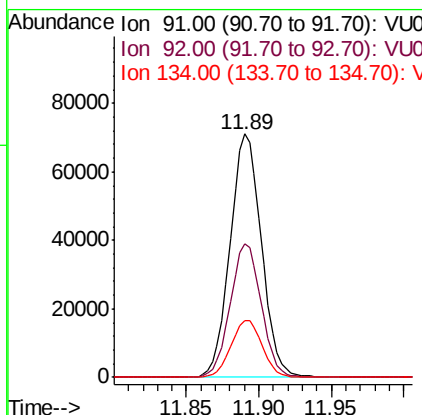
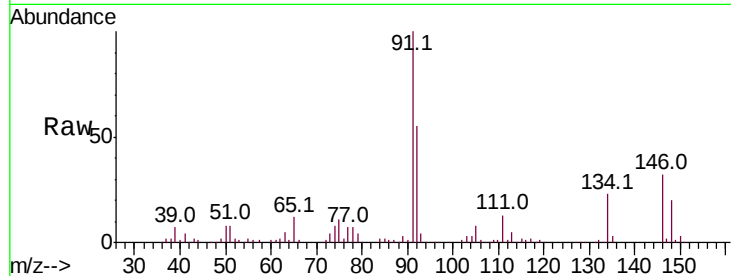
#89
n-Butylbenzene
Concen: 18.661 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	54.4	27.0	81.0	
134	23.2	11.7	35.1	

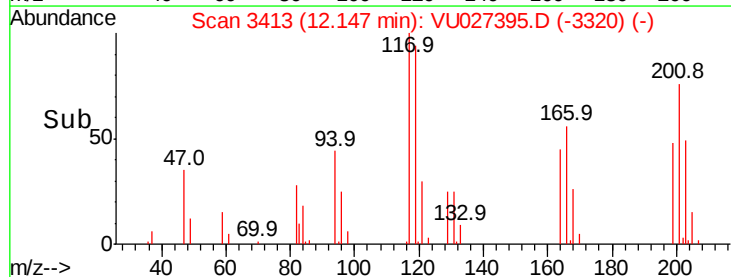
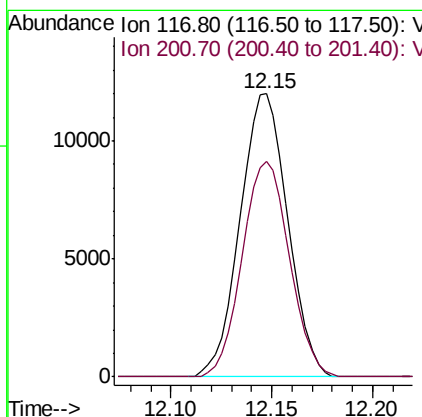
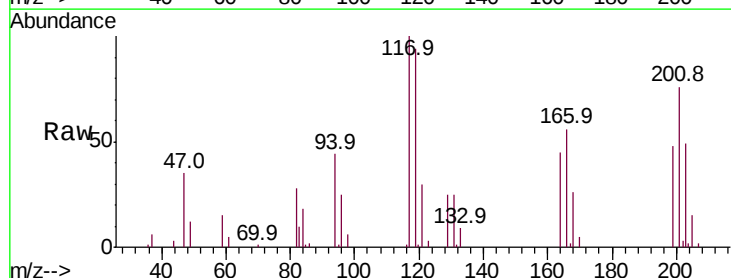
Manual Integrations
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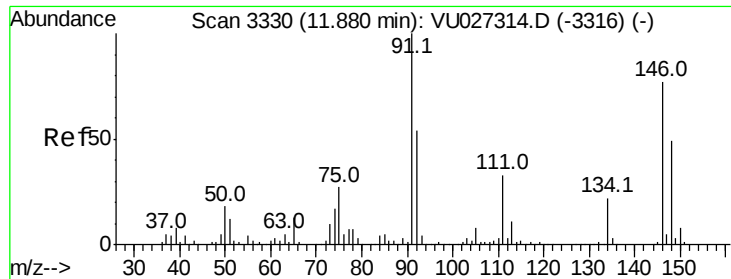
MMDadoda
10/8/2018 1:52:29 PM



#90
Hexachloroethane
Concen: 18.229 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	75.5	37.9	113.6	





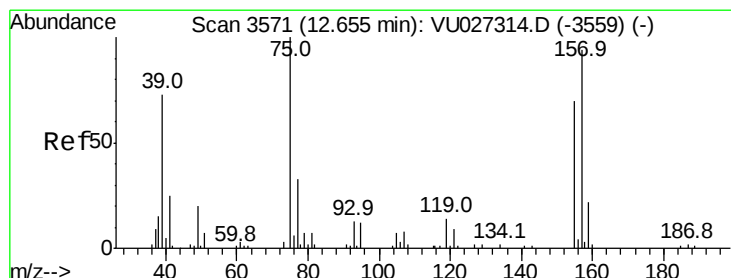
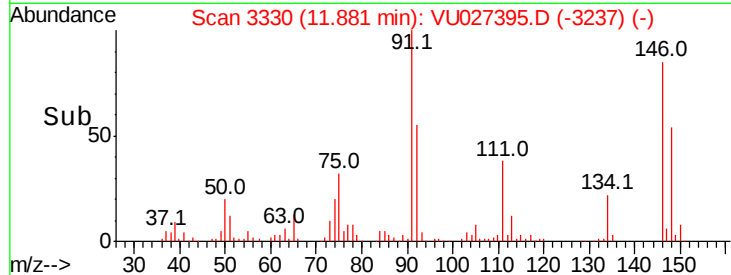
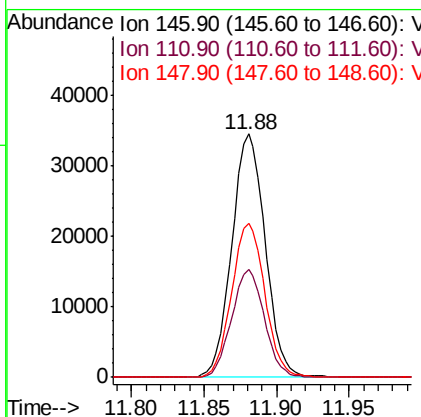
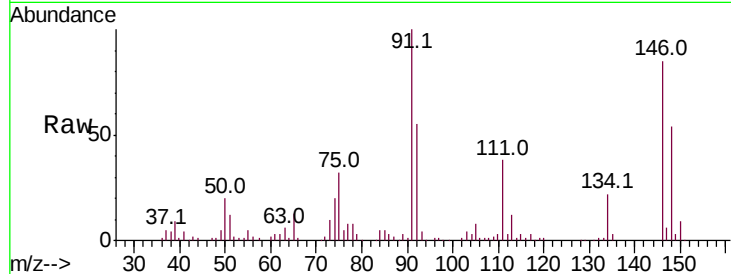
#91
 1,2-Dichlorobenzene
 Concen: 18.926 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Resp	Lower	Upper
146	100			
111	43.3	21.8	65.4	
148	62.8	31.9	95.5	

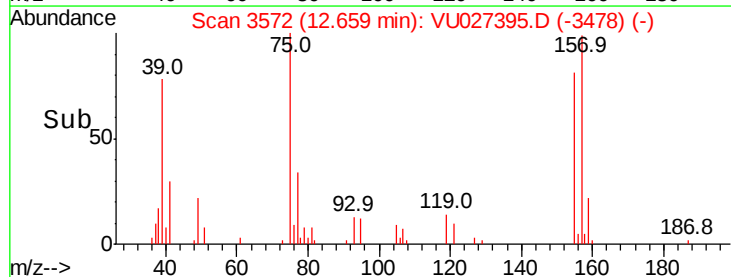
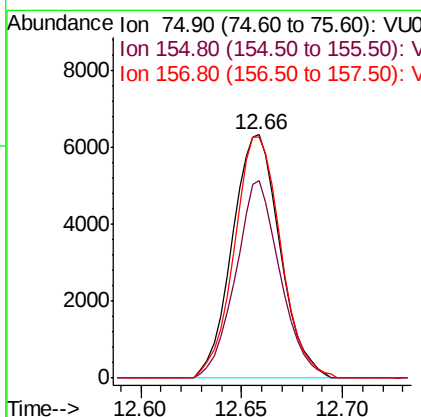
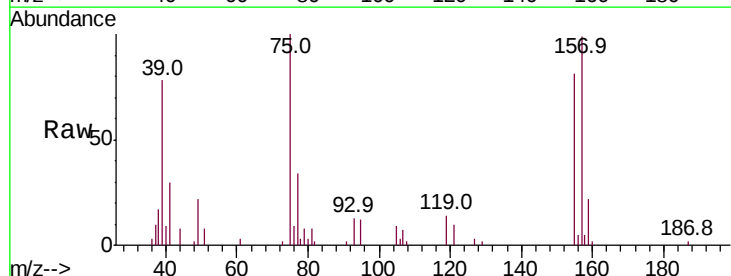
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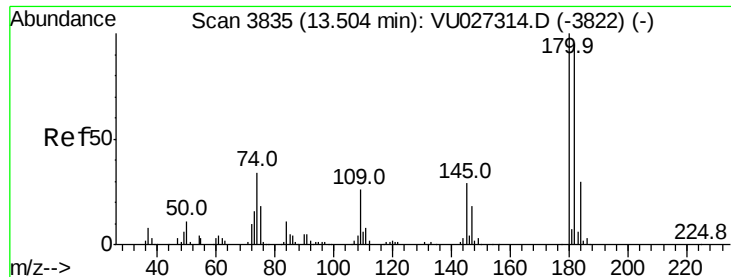
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.679 ug/l
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
155	75.6	35.9	107.8	
157	96.8	46.9	140.6	





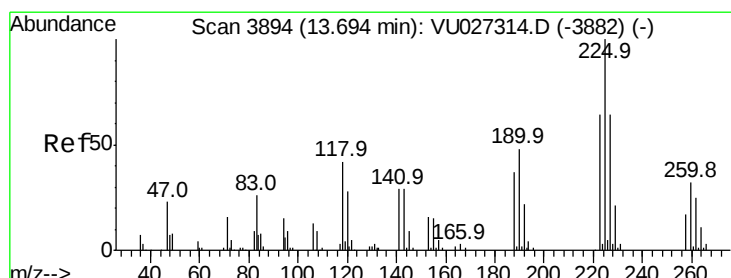
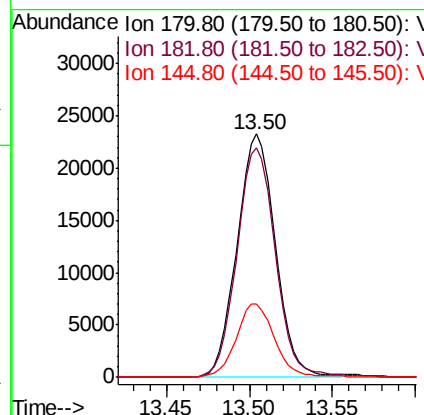
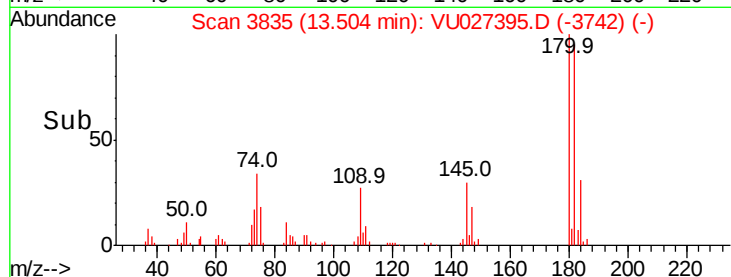
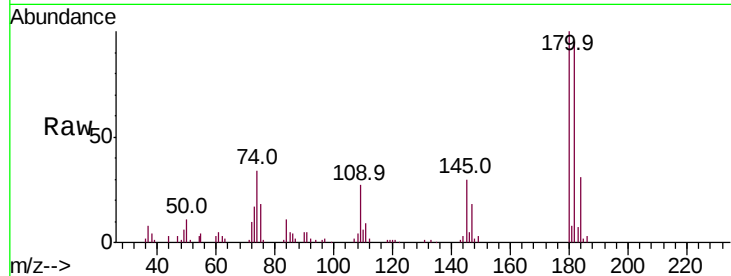
#93
 1,2,4-Trichlorobenzene
 Concen: 19.835 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004MBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.5	47.4	142.3	
145	30.2	14.6	44.0	

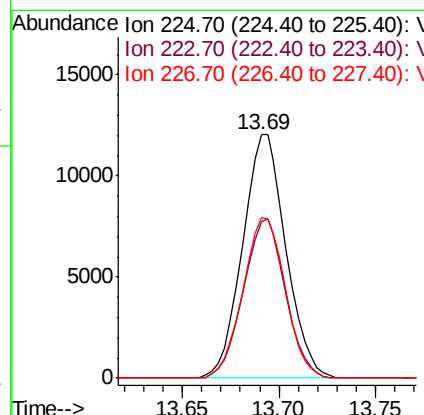
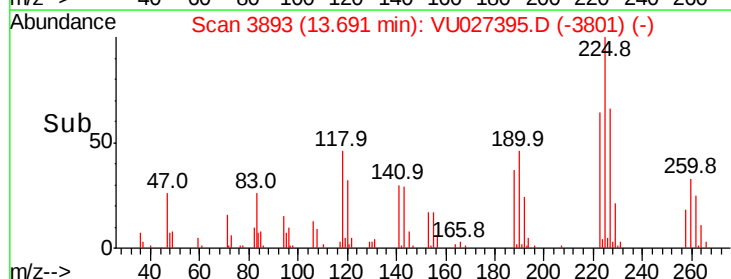
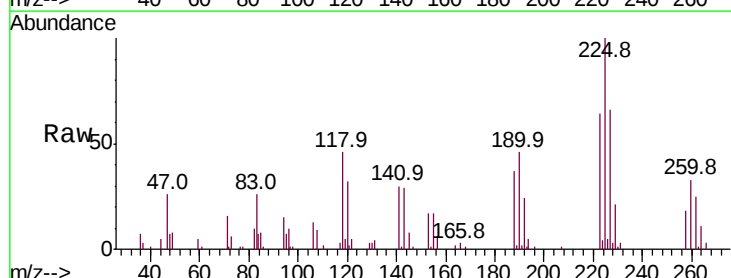
Manual Integrations
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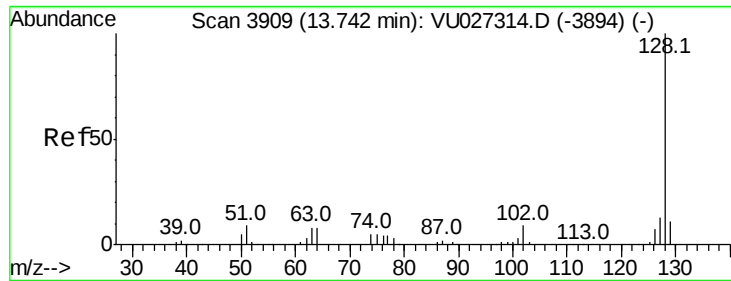
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#94
 Hexachlorobutadiene
 Concen: 19.652 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU027395.D
 Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.0	31.8	95.3	
227	64.5	31.9	95.7	





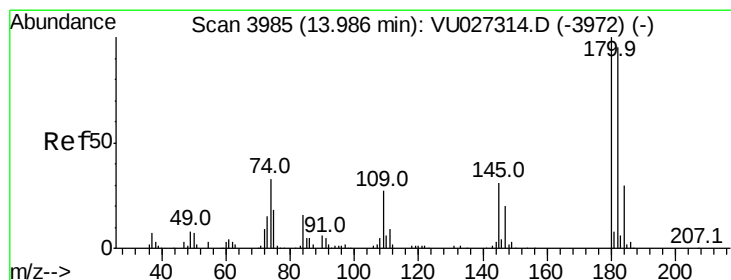
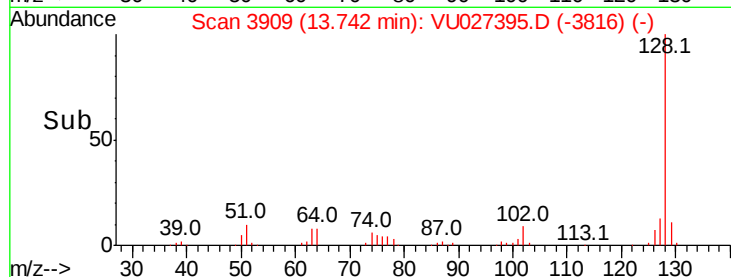
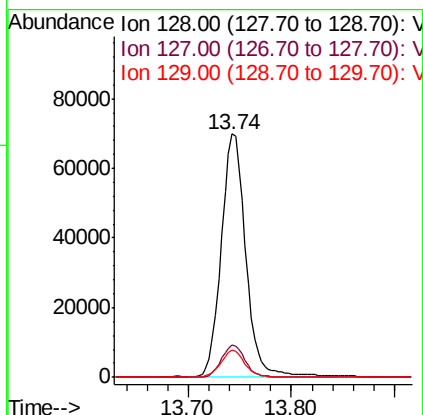
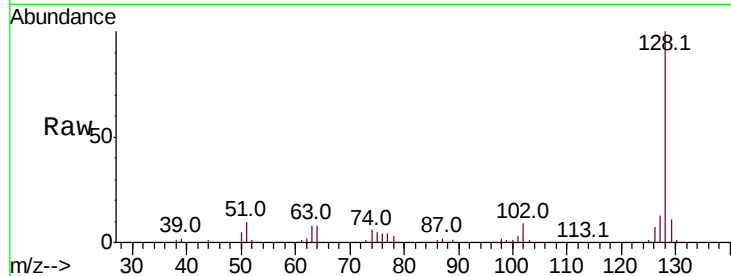
#95
Naphthalene
Concen: 17.567 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Instrument :
MSVOA_U
ClientSampleId :
VU1004MBS02

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

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 19.923 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU027395.D
Acq: 04 Oct 2018 10:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.4	142.2
145	31.4	15.9	47.7

