

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120618\
 Data File : VU028494.D
 Acq On : 06 Dec 2018 12:10
 Operator : MD/SY
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 10:34:50 AM

Quant Time: Dec 07 00:22:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	103081	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	183915	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	169119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	81604	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	30596	19.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.90%	
35) Dibromofluoromethane	4.88	113	21388	18.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.96%	
50) Toluene-d8	7.57	98	84793	18.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.04%	
62) 4-Bromofluorobenzene	10.30	95	31030	18.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	29810	21.576	ug/l	100
3) Chloromethane	1.33	50	50201	19.763	ug/l	99
4) Vinyl Chloride	1.41	62	37491	20.452	ug/l	99
5) Bromomethane	1.63	94	15586	21.107	ug/l	100
6) Chloroethane	1.70	64	21402	20.623	ug/l	100
7) Trichlorofluoromethane	1.89	101	39927	20.702	ug/l	99
8) Diethyl Ether	2.10	74	18388	20.378	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.29	101	23887	20.709	ug/l	98
10) Methyl Iodide	2.41	142	17376	19.198	ug/l	99
11) Tert butyl alcohol	2.82	59	37801	107.856	ug/l	99
12) 1,1-Dichloroethene	2.29	96	23008	20.047	ug/l	98
13) Acrolein	2.20	56	27397	98.058	ug/l	98
14) Allyl chloride	2.59	41	53458	19.690	ug/l	98
15) Acrylonitrile	2.94	53	101005	103.804	ug/l	99
16) Acetone	2.32	43	104019	101.333	ug/l	99
17) Carbon Disulfide	2.48	76	82256	19.895	ug/l	99
18) Methyl Acetate	2.62	43	54928	20.642	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	89763	20.632	ug/l	99
20) Methylene Chloride	2.70	84	29872	19.741	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	27174	21.029	ug/l	94
22) Diisopropyl ether	3.57	45	109869	20.809	ug/l	97
23) Vinyl Acetate	3.52	43	448210	102.917	ug/l	100
24) 1,1-Dichloroethane	3.45	63	55809	20.193	ug/l	99
25) 2-Butanone	4.26	43	148408	105.792	ug/l	97
26) 2,2-Dichloropropane	4.23	77	44706	20.415	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	29961	20.485	ug/l	100
28) Bromochloromethane	4.55	49	27191	21.642	ug/l	100
29) Tetrahydrofuran	4.64	42	94232	104.592	ug/l	99
30) Chloroform	4.67	83	50412	20.928	ug/l	99
31) Cyclohexane	5.00	56	57430	17.714	ug/l	99
32) 1,1,1-Trichloroethane	4.92	97	41373	20.680	ug/l	98
36) 1,1-Dichloropropene	5.14	75	39002	19.379	ug/l	99
37) Ethyl Acetate	4.38	43	53067	20.398	ug/l	100
38) Carbon Tetrachloride	5.13	117	32669	20.140	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	48612	19.799	ug/l	98
40) Benzene	5.39	78	118974	20.072	ug/l	99
41) Methacrylonitrile	4.54	41	29372	20.615	ug/l	98
42) 1,2-Dichloroethane	5.40	62	41764	20.129	ug/l	98
43) Isopropyl Acetate	5.55	43	84225	20.468	ug/l	99
44) Trichloroethene	6.19	130	26575	20.164	ug/l	99
45) 1,2-Dichloropropane	6.43	63	34260	20.554	ug/l	98
46) Dibromomethane	6.56	93	19791	20.011	ug/l	98
47) Bromodichloromethane	6.76	83	38726	20.123	ug/l	99
48) Methyl methacrylate	6.62	41	41260	20.162	ug/l	99
49) 1,4-Dioxane	6.61	88	13679	423.340	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	262140	101.002	ug/l	100
52) Toluene	7.64	92	70522	20.216	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	44975	19.622	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	48515	19.510	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	27875	20.215	ug/l	96
56) Ethyl methacrylate	8.02	69	46828	19.831	ug/l	99
57) 1,3-Dichloropropane	8.24	76	50990	19.920	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	122875	101.591	ug/l	100
59) 2-Hexanone	8.36	43	205386	99.842	ug/l	100
60) Dibromochloromethane	8.48	129	26238	19.435	ug/l	100
61) 1,2-Dibromoethane	8.58	107	29506	20.405	ug/l	100
64) Tetrachloroethene	8.22	164	22451	19.902	ug/l	96
65) Chlorobenzene	9.12	112	72601	20.146	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	23664	20.563	ug/l	99
67) Ethyl Benzene	9.25	91	132401	19.985	ug/l	99
68) m/p-Xylenes	9.37	106	97469	40.433	ug/l	100
69) o-Xylene	9.78	106	46958	20.045	ug/l	98
70) Styrene	9.79	104	76516	19.737	ug/l	99
71) Bromoform	9.96	173	19600	20.021	ug/l #	100
73) Isopropylbenzene	10.17	105	126537	20.208	ug/l	99
74) N-amyl acetate	10.01	43	70269	19.455	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	47904	19.915	ug/l	98
76) 1,2,3-Trichloropropane	10.49	75	43356m	18.416	ug/l	
77) Bromobenzene	10.45	156	29149	19.904	ug/l	99
78) n-propylbenzene	10.58	91	154574	19.866	ug/l	100
79) 2-Chlorotoluene	10.66	91	90399	20.170	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	104430	20.147	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.51	75	15333m	13.169	ug/l	
82) 4-Chlorotoluene	10.77	91	104785	19.729	ug/l	99
83) tert-Butylbenzene	11.10	119	100032	20.022	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	106905	20.013	ug/l	100
85) sec-Butylbenzene	11.32	105	128686	20.050	ug/l	100
86) p-Isopropyltoluene	11.48	119	107301	19.681	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	53451	19.329	ug/l	100
88) 1,4-Dichlorobenzene	11.50	146	54069	18.898	ug/l	98
89) n-Butylbenzene	11.89	91	105827	19.179	ug/l	99
90) Hexachloroethane	12.14	117	15993	19.407	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	51870	18.752	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.66	75	10317	19.811	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	35891	18.098	ug/l	99
94) Hexachlorobutadiene	13.69	225	17017	18.781	ug/l	97
95) Naphthalene	13.74	128	125853	18.961	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	37303	18.697	ug/l	99

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

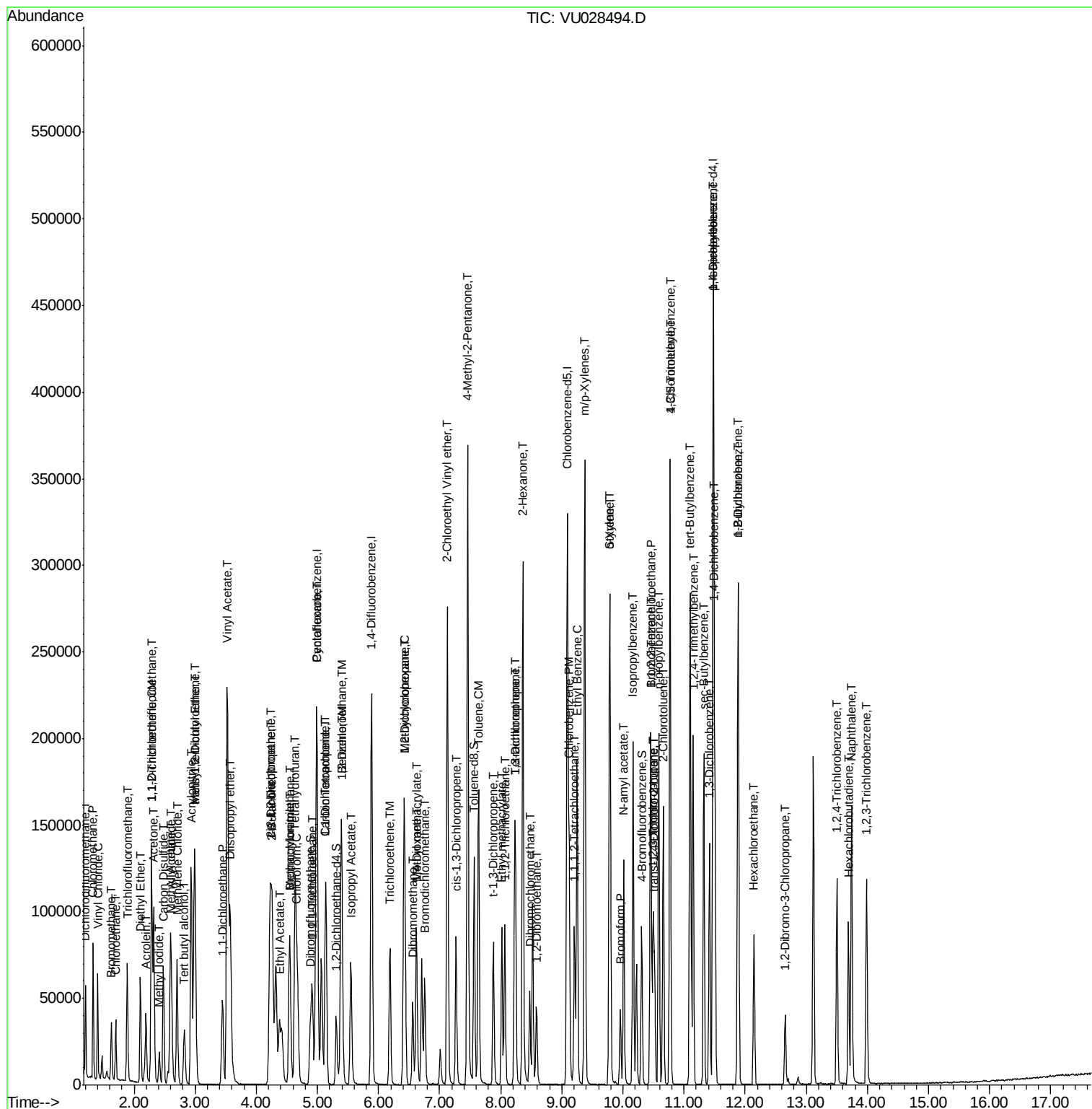
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Data File : VU028494.D
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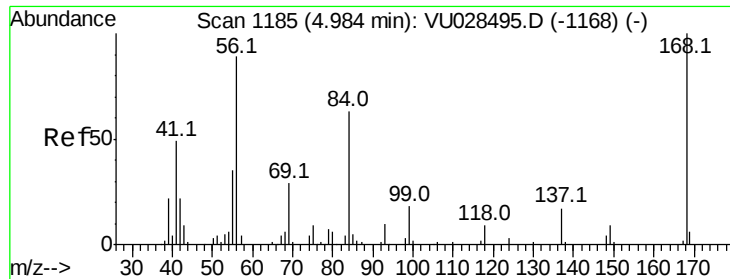
Instrument :
MSVOA_U
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 103081

Ion Ratio Lower Upper

168 100

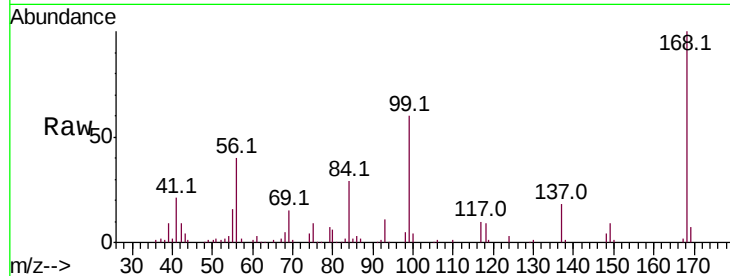
99 59.7 46.6 69.8

Manual Integrations

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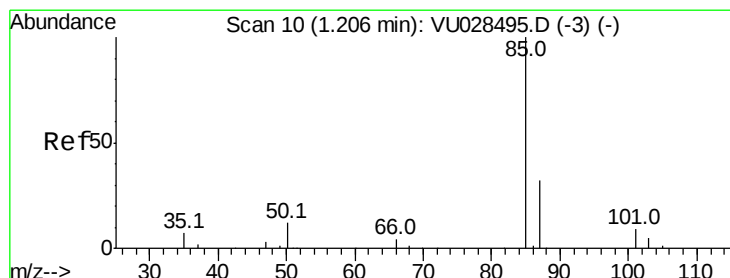
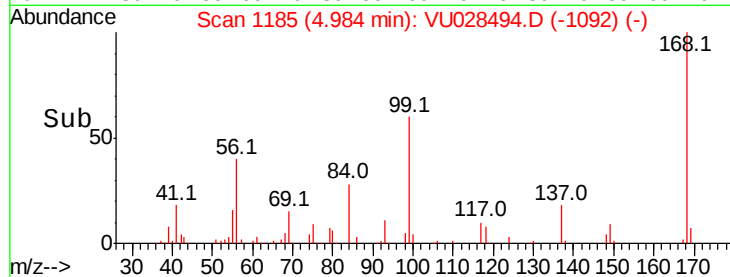
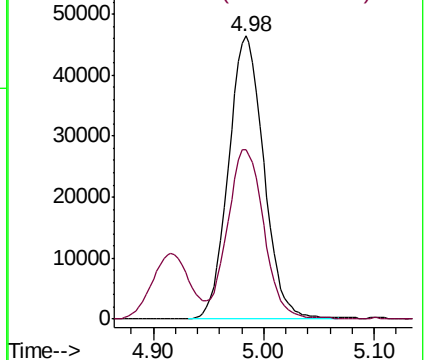
MMDadoda

12/7/2018 10:34:50 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#2

Dichlorodifluoromethane

Concen: 21.576 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028494.D

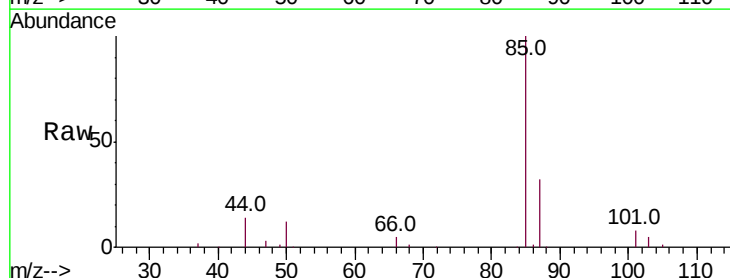
Acq: 06 Dec 2018 12:10

Tgt Ion: 85 Resp: 29810

Ion Ratio Lower Upper

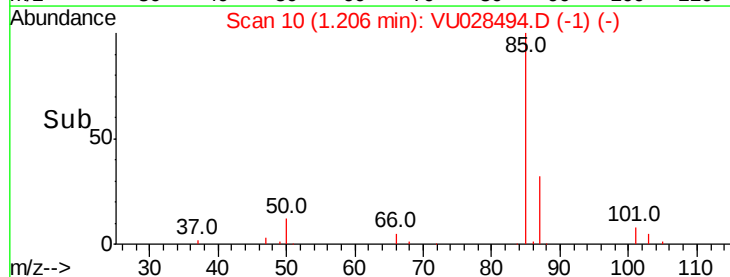
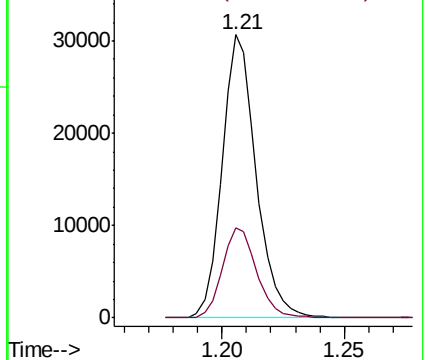
85 100

87 31.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU0

Ion 86.90 (86.60 to 87.60): VU0





#3

Chloromethane

Concen: 19.763 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 50201

Ion Ratio Lower Upper

50 100

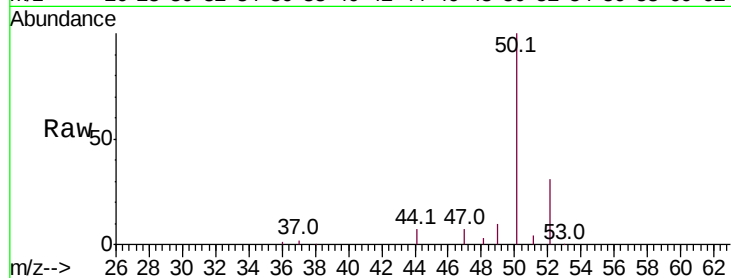
52 31.1 25.5 38.3

Manual Integrations

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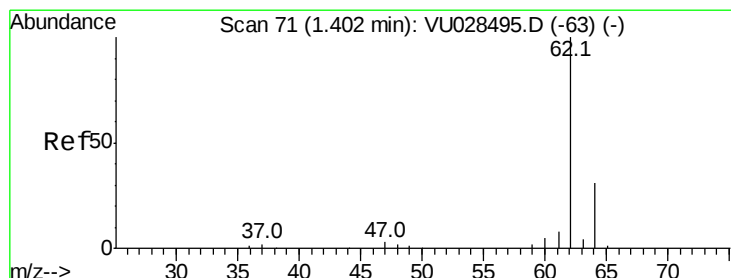
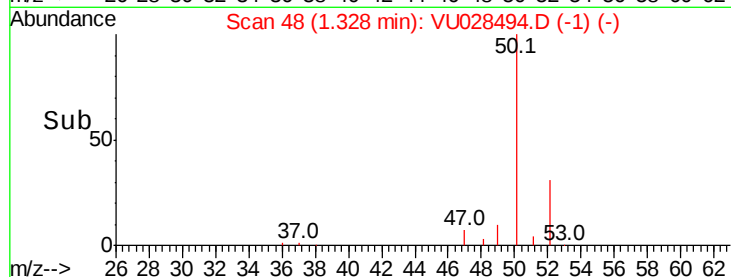
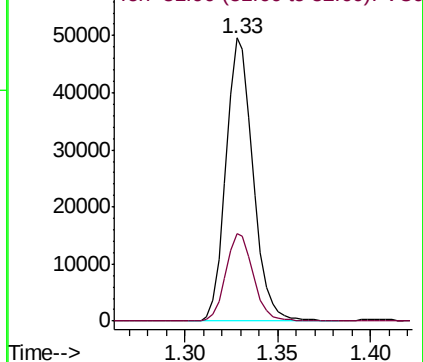
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12/7/2018 10:34:50 AM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 20.452 ug/l

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028494.D

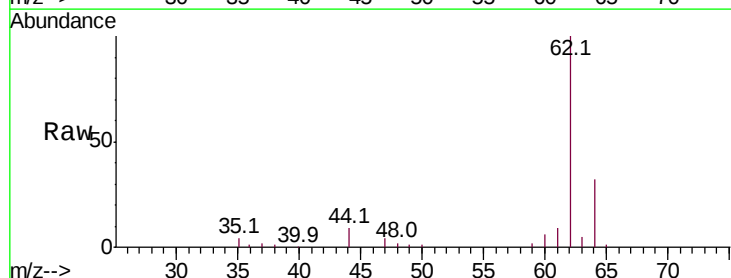
Acq: 06 Dec 2018 12:10

Tgt Ion: 62 Resp: 37491

Ion Ratio Lower Upper

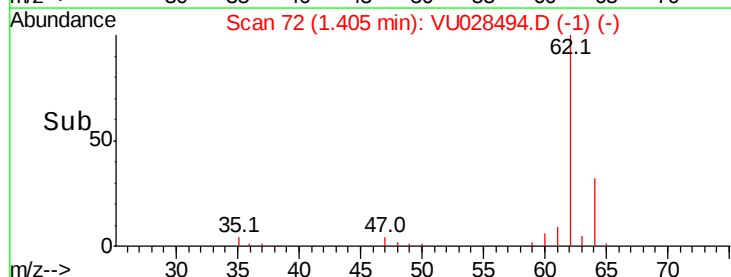
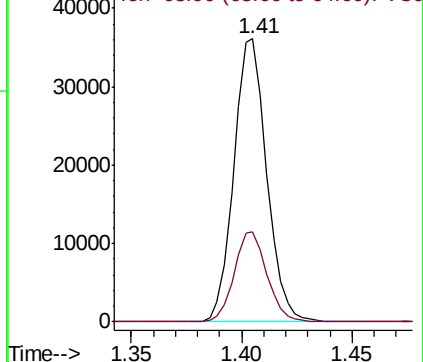
62 100

64 31.9 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 21.107 ug/l

RT: 1.63 min Scan# 141

Delta R.T. 0.01 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

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Tot Ion: 94 Resp: 15586

Ion Ratio Lower Upper

94 100

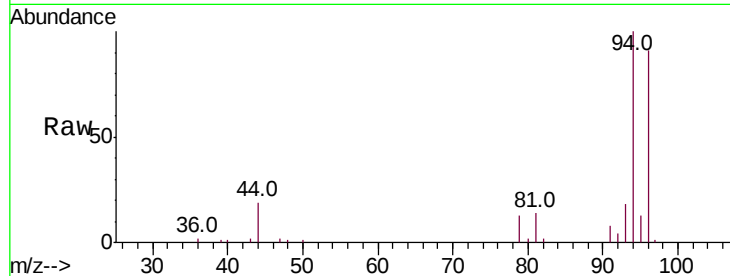
96 91.4 73.2 109.8

Manual Integrations

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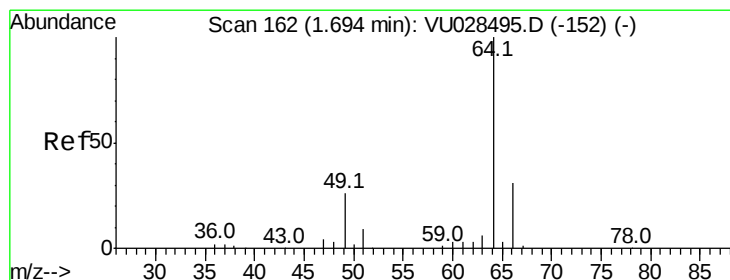
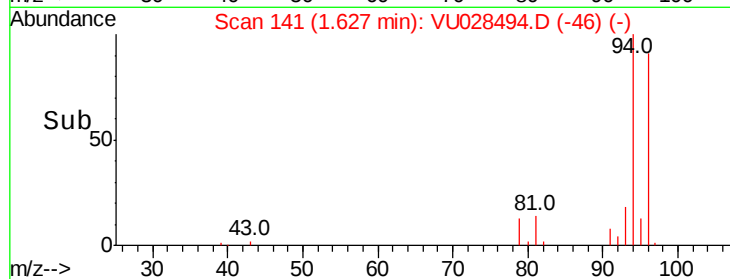
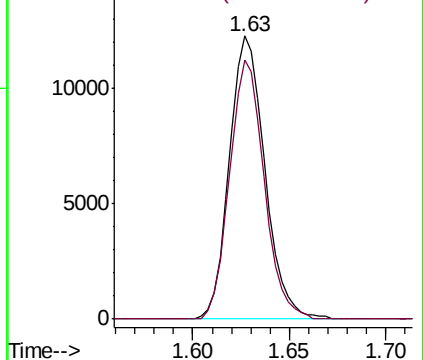
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.623 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU028494.D

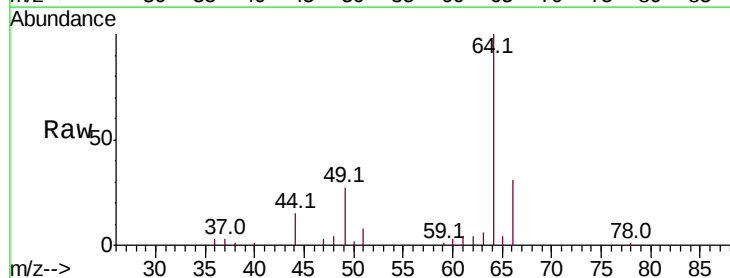
Acq: 06 Dec 2018 12:10

Tgt Ion: 64 Resp: 21402

Ion Ratio Lower Upper

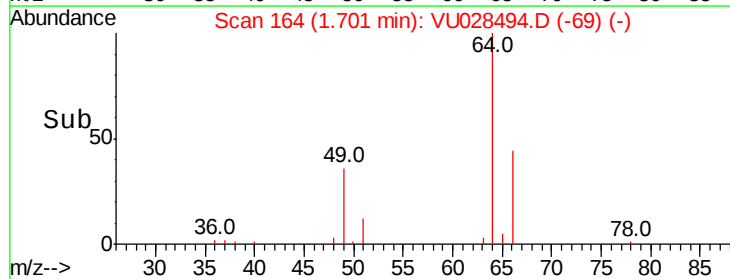
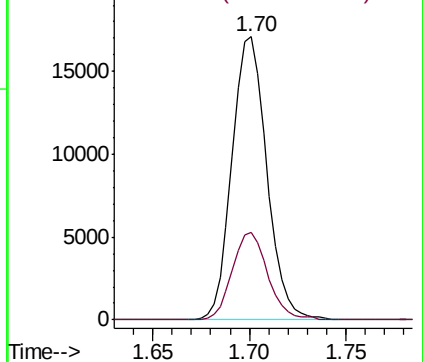
64 100

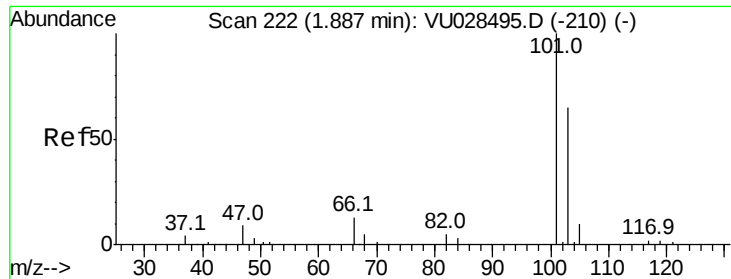
66 31.1 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

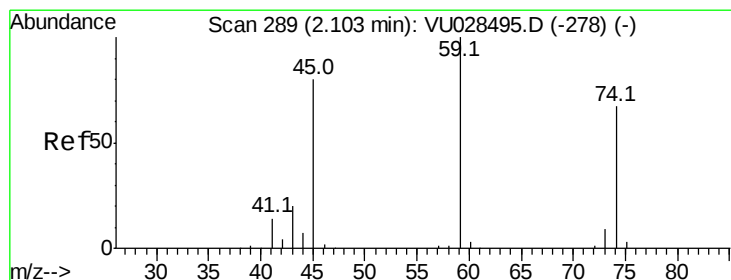
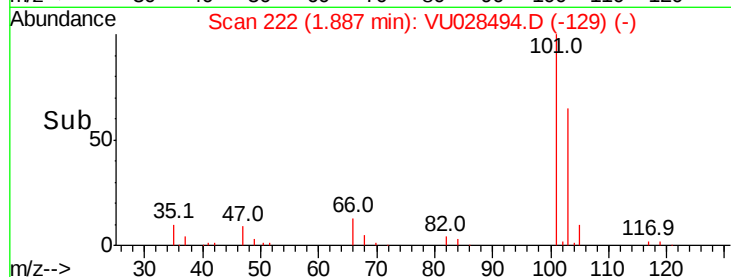
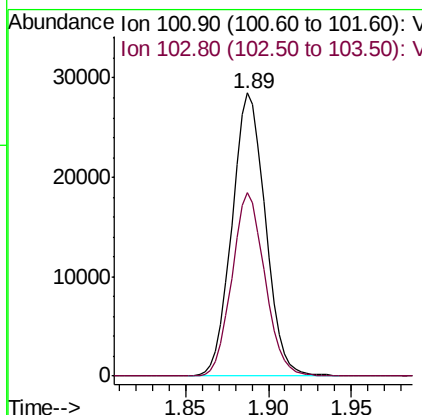
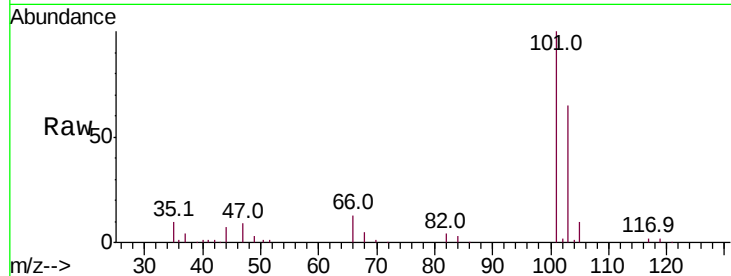
Trichlorofluoromethane
 Concen: 20.702 ug/l
 RT: 1.89 min Scan# 222
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.3	78.5

Manual Integrations
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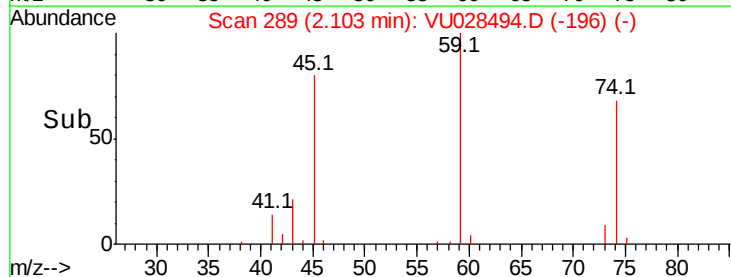
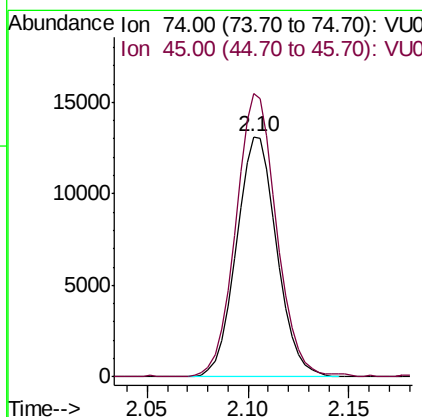
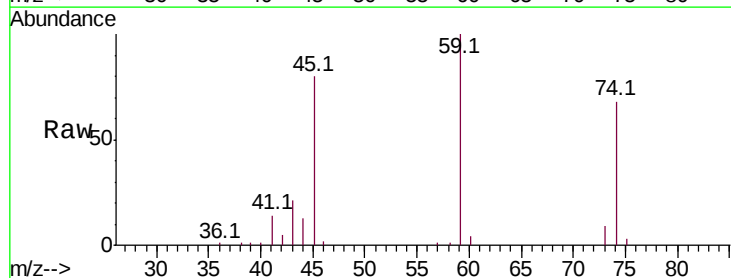
MMDadoda
 12/7/2018 10:34:50 AM



#8

Diethyl Ether
 Concen: 20.378 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	119.4	59.7	179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.709 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

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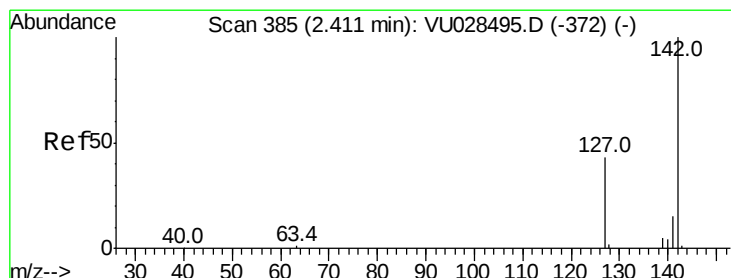
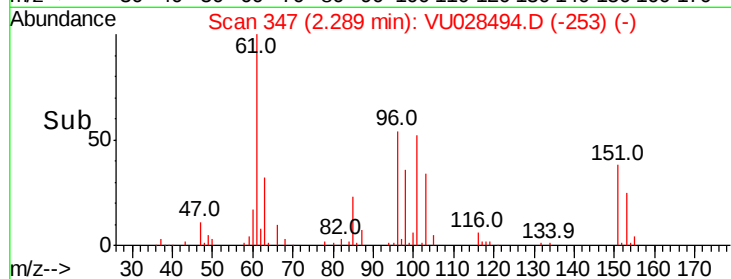
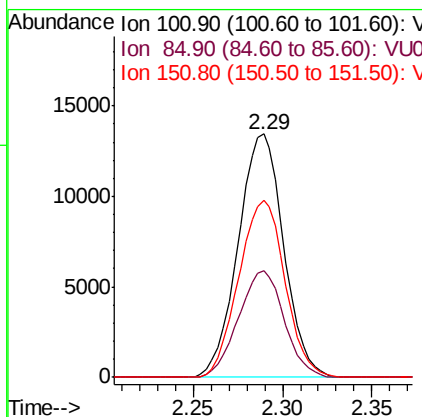
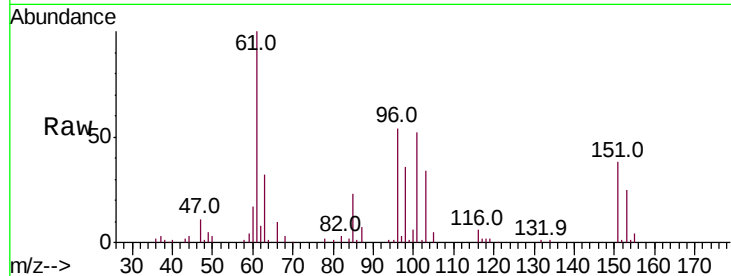
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	23887
Ion Ratio	Lower	Upper	
101	100		
85	44.0	36.4	54.6
151	74.0	58.2	87.2

Manual Integrations
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MMDadoda
12/7/2018 10:34:50 AM



#10

Methyl Iodide

Concen: 19.198 ug/l

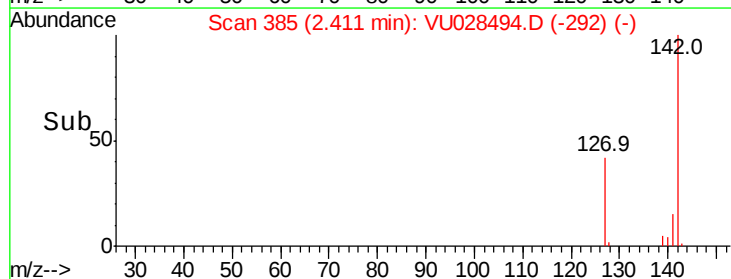
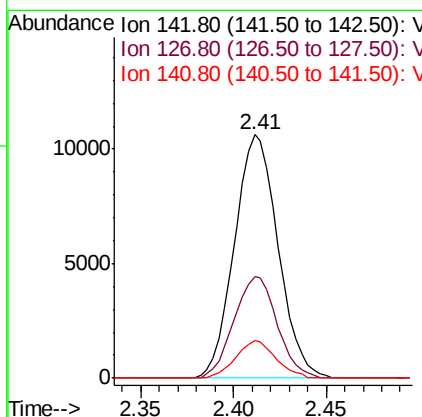
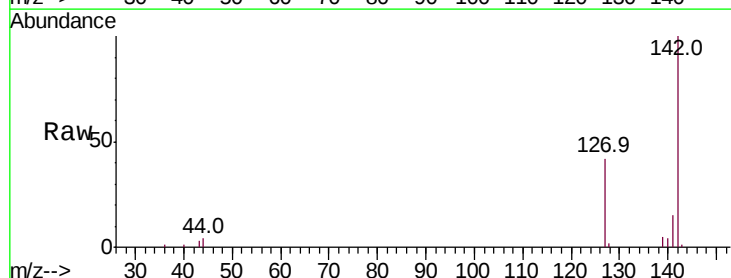
RT: 2.41 min Scan# 385

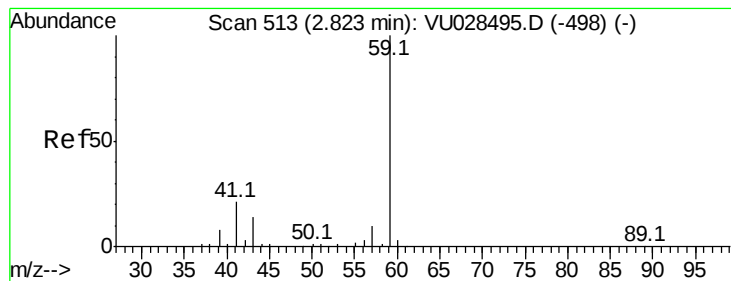
Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Tgt Ion:	142	Resp:	17376
Ion Ratio	Lower	Upper	
142	100		
127	41.2	33.5	50.3
141	14.1	11.2	16.8





#11

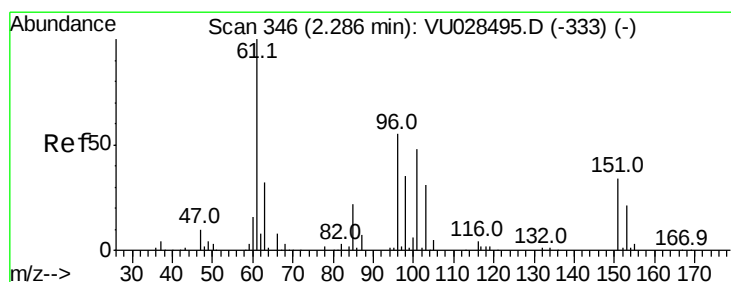
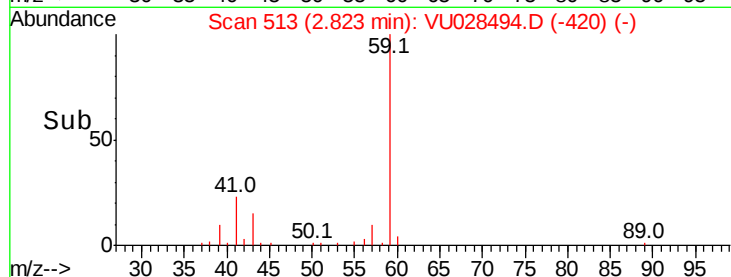
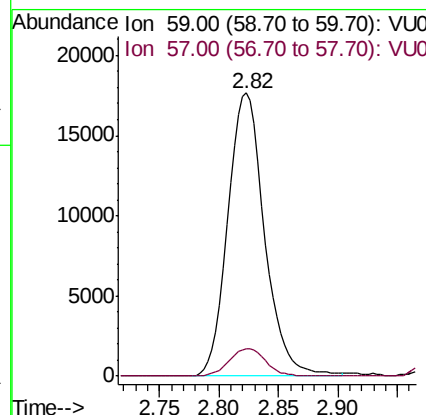
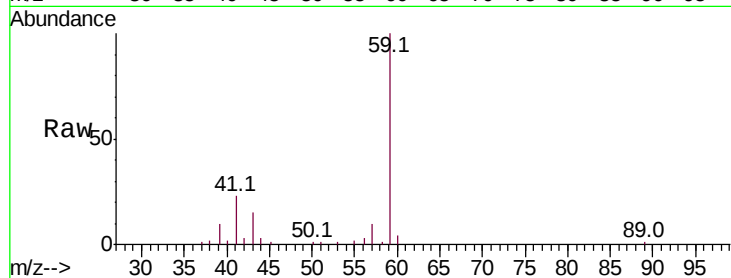
Tert butyl alcohol
 Concen: 107.856 ug/l
 RT: 2.82 min Scan# 513
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.0	12.0

Manual Integrations
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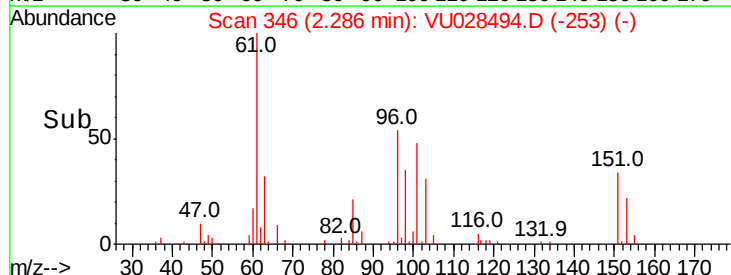
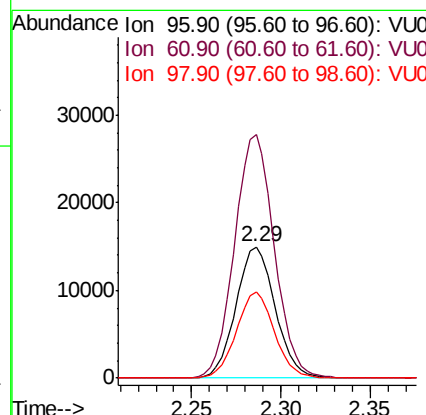
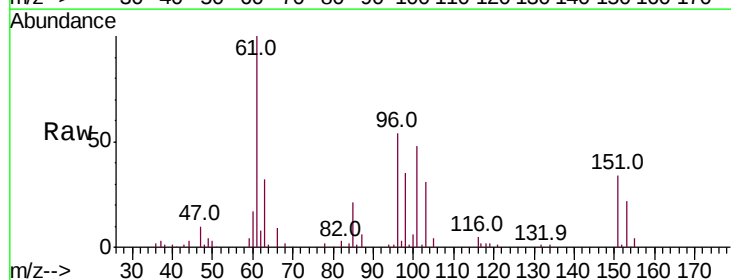
MMDadoda
 12/7/2018 10:34:50 AM

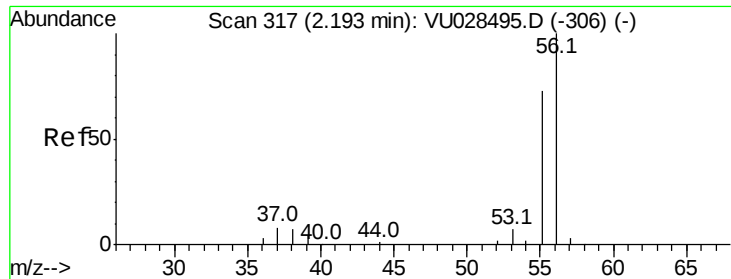


#12

1,1-Dichloroethene
 Concen: 20.047 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	185.6	146.4	219.6
98	65.5	51.8	77.8





#13

Acrolein

Concen: 98.058 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 27397

Ion Ratio Lower Upper

56 100

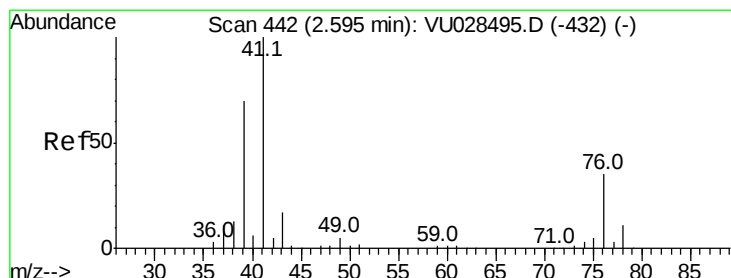
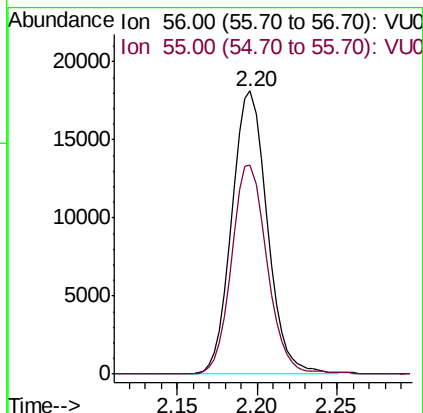
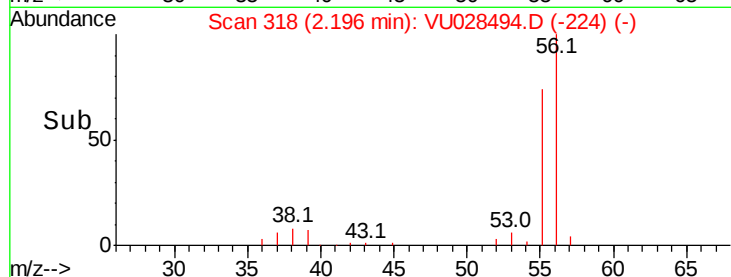
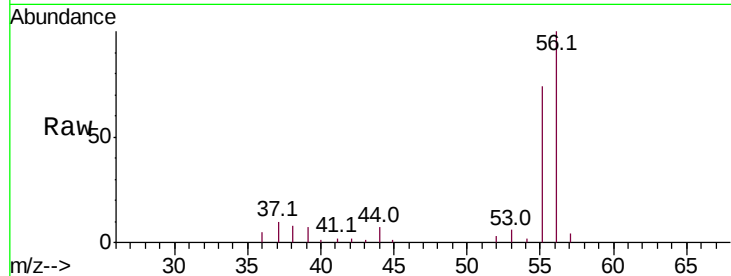
55 73.7 57.5 86.3

Manual Integrations

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MMDadoda

12/7/2018 10:34:50 AM



#14

Allyl chloride

Concen: 19.690 ug/l

RT: 2.59 min Scan# 442

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

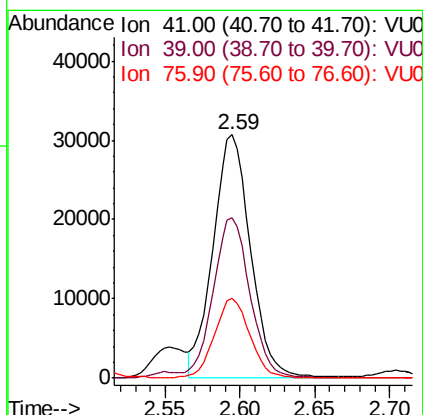
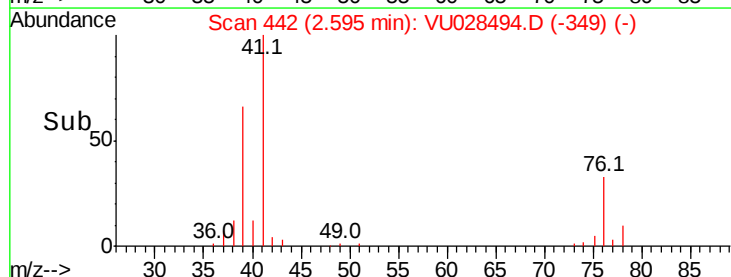
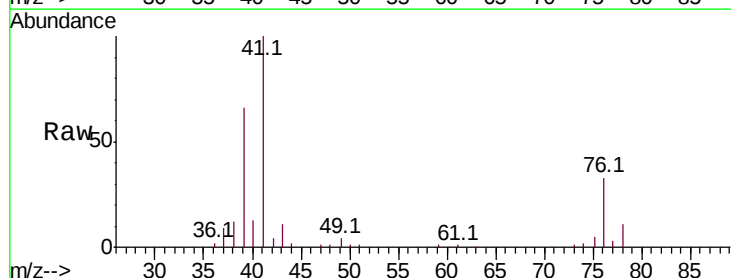
Tgt Ion: 41 Resp: 53458

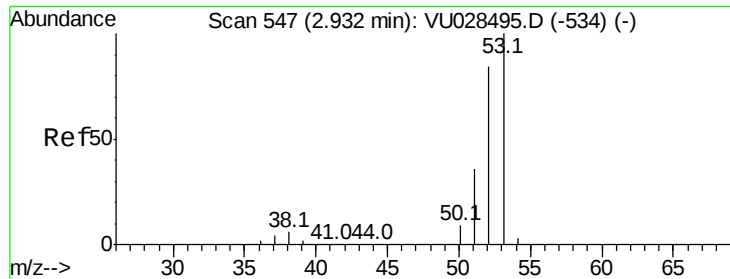
Ion Ratio Lower Upper

41 100

39 65.3 50.8 76.2

76 30.9 24.8 37.2





#15

Acrylonitrile

Concen: 103.804 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

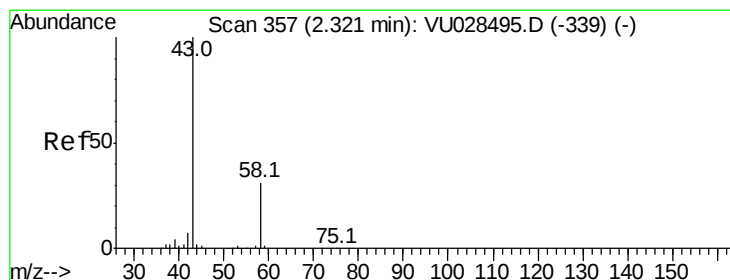
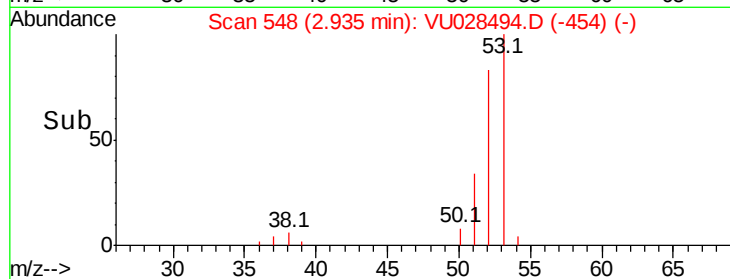
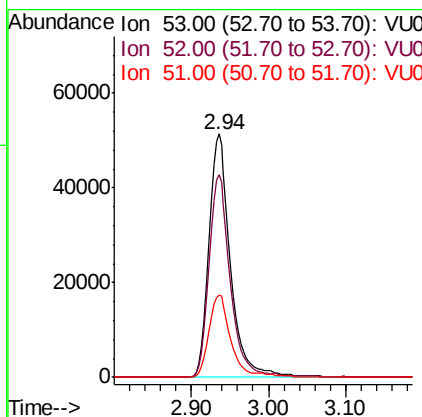
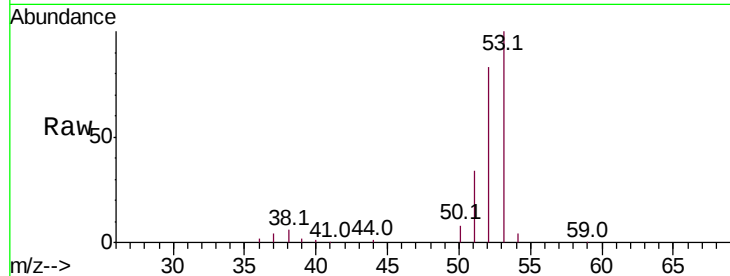
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	101005
Ion Ratio	Lower	Upper	
53	100		
52	81.3	66.1	99.1
51	34.8	28.1	42.1

Manual Integrations
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MMDadoda
12/7/2018 10:34:50 AM



#16

Acetone

Concen: 101.333 ug/l

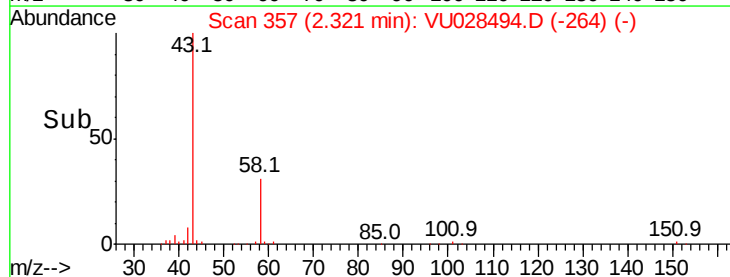
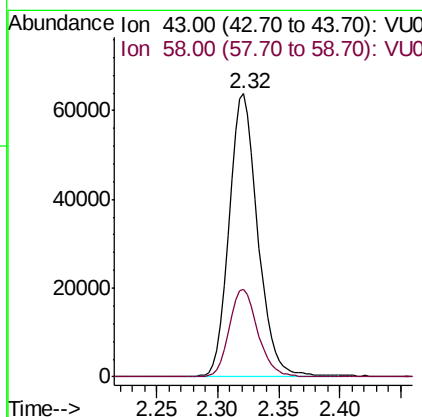
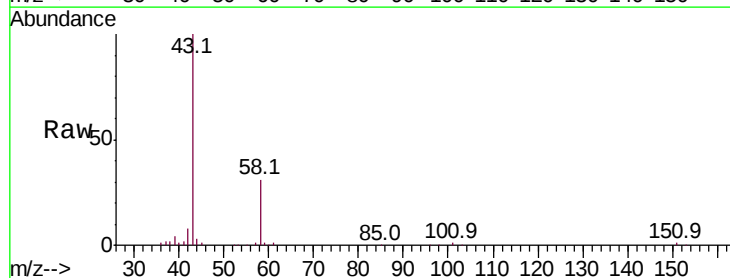
RT: 2.32 min Scan# 357

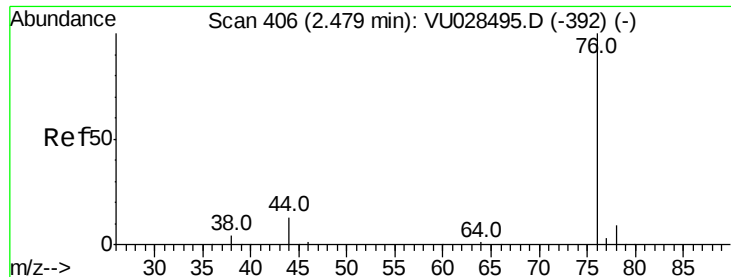
Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Tgt Ion:	43	Resp:	104019
Ion Ratio	Lower	Upper	
43	100		
58	31.1	24.6	37.0





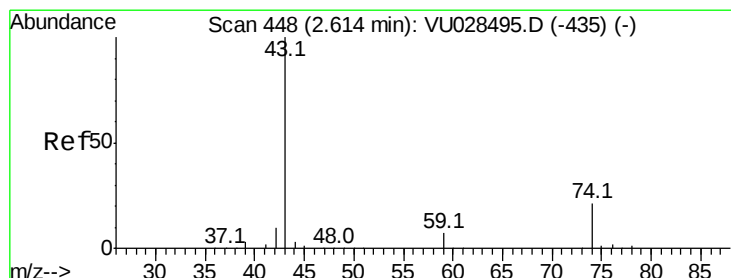
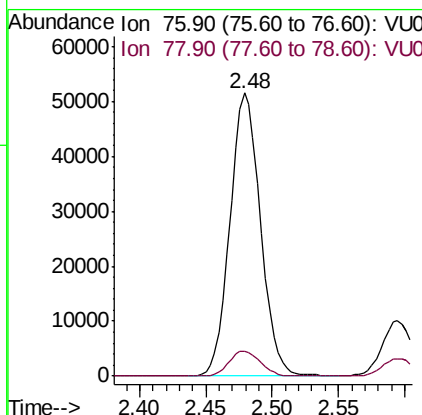
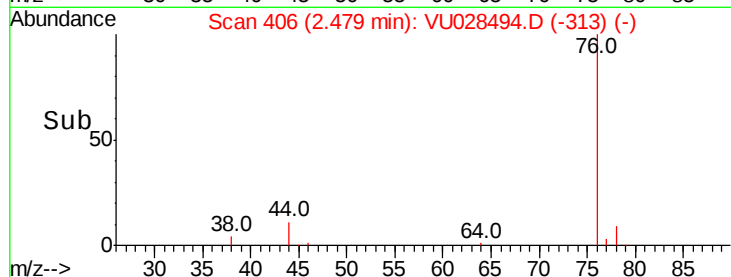
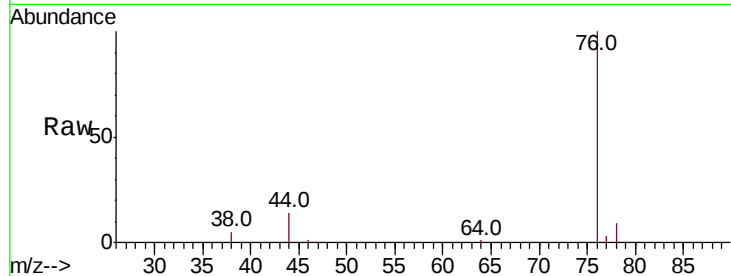
#17
Carbon Disulfide
Concen: 19.895 ug/l
RT: 2.48 min Scan# 406
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.2	10.8

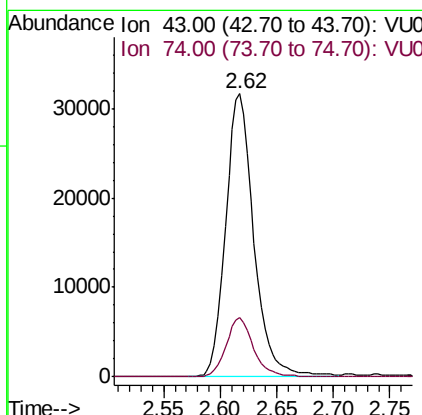
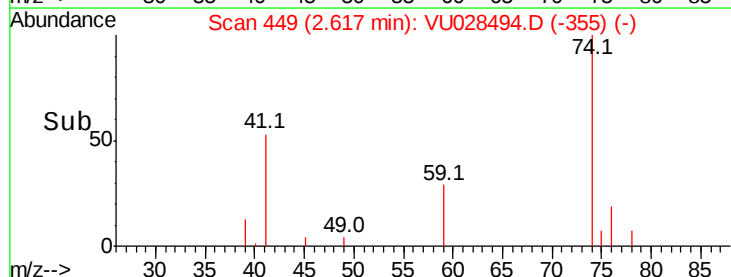
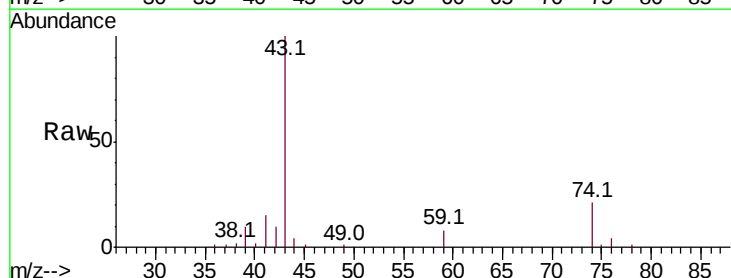
Manual Integrations
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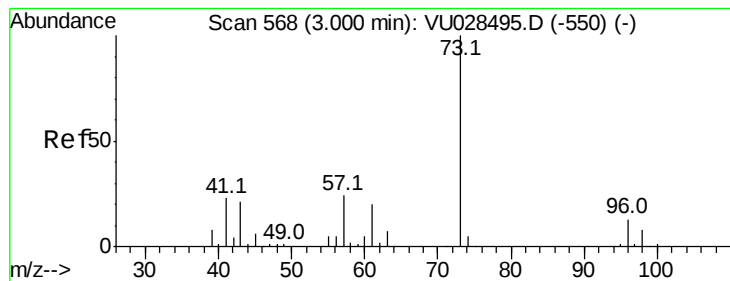
MMDadoda
12/7/2018 10:34:50 AM



#18
Methyl Acetate
Concen: 20.642 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.2	16.4	24.6





#19

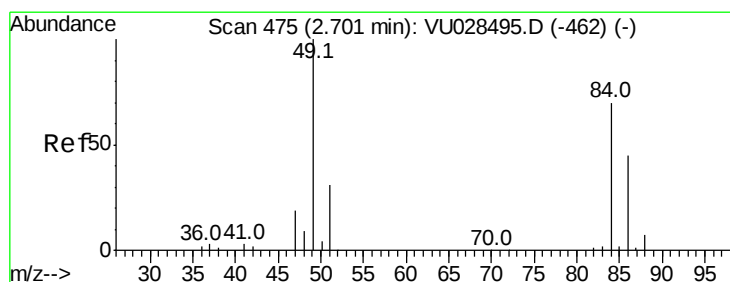
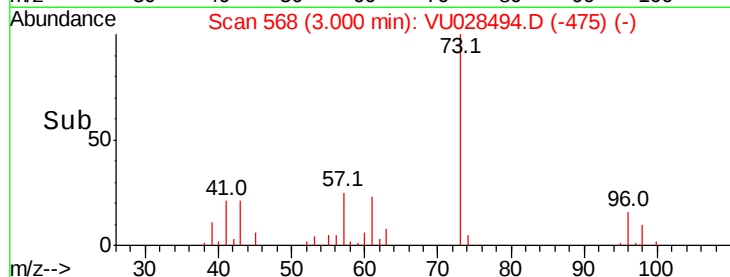
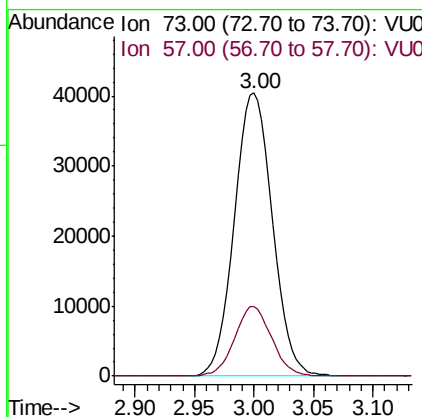
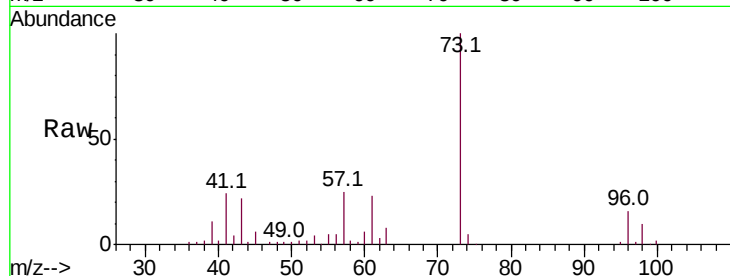
Methyl tert-butyl Ether
 Concen: 20.632 ug/l
 RT: 3.00 min Scan# 568
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion: 73 Resp: 89763
 Ion Ratio Lower Upper
 73 100
 57 24.7 19.4 29.2

Manual Integrations
 APPROVED

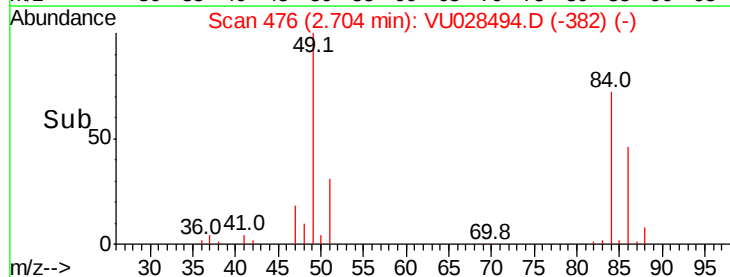
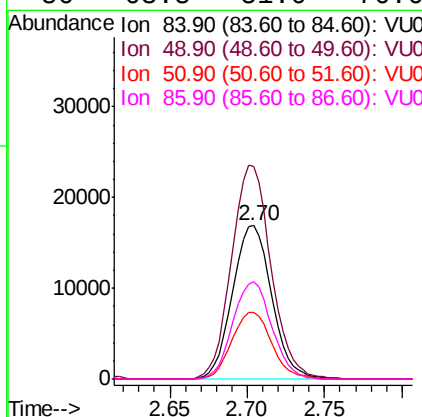
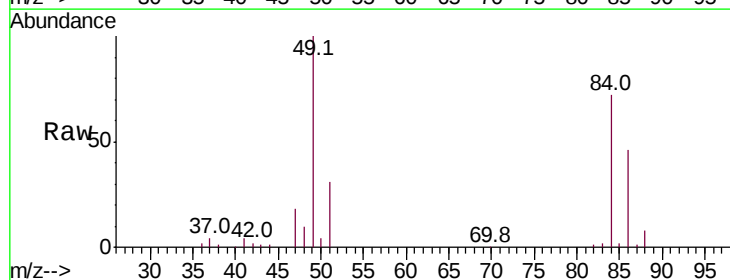
MMDadoda
 12/7/2018 10:34:50 AM

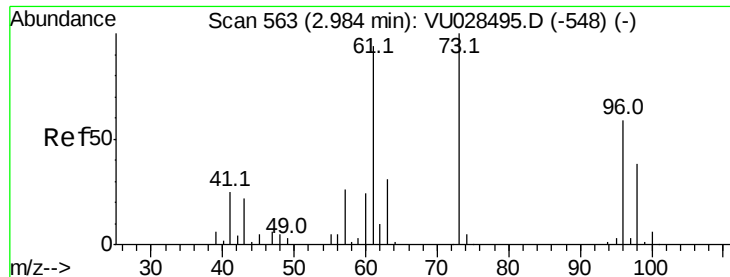


#20

Methylene Chloride
 Concen: 19.741 ug/l
 RT: 2.70 min Scan# 476
 Delta R.T. 0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Tgt Ion: 84 Resp: 29872
 Ion Ratio Lower Upper
 84 100
 49 138.9 114.0 171.0
 51 43.6 35.1 52.7
 86 63.8 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 21.029 ug/l

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 27174

Ion Ratio Lower Upper

96 100

61 149.4 127.0 190.4

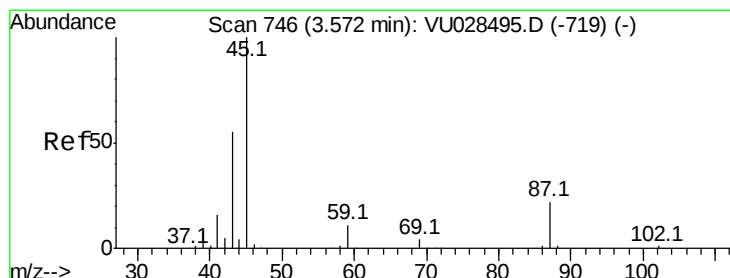
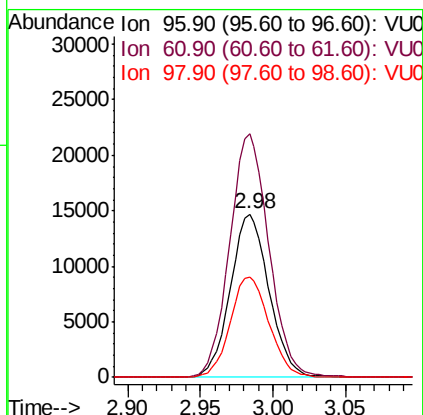
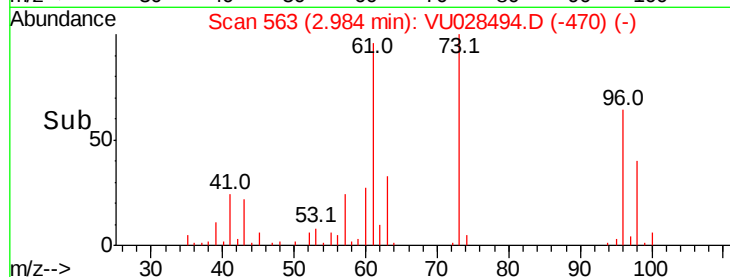
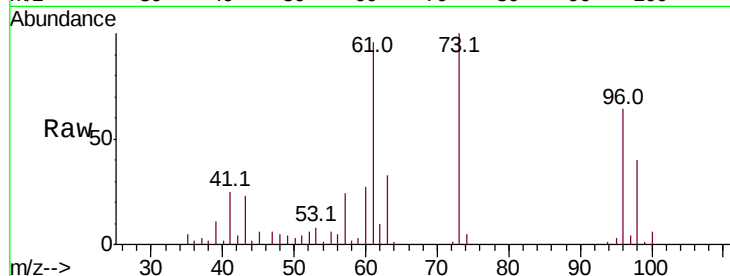
98 61.5 51.9 77.9

Manual Integrations

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MMDadoda

12/7/2018 10:34:50 AM



#22

Diisopropyl ether

Concen: 20.809 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Tgt Ion: 45 Resp: 109869

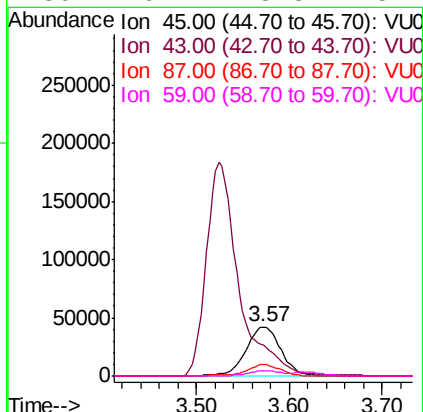
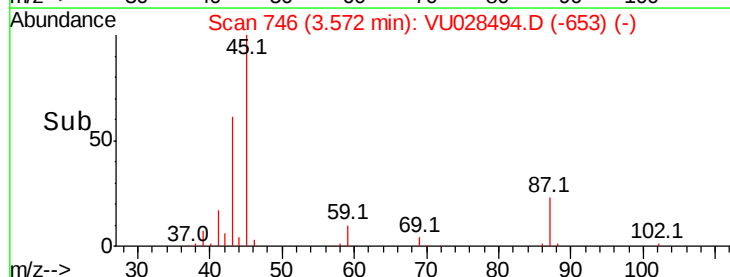
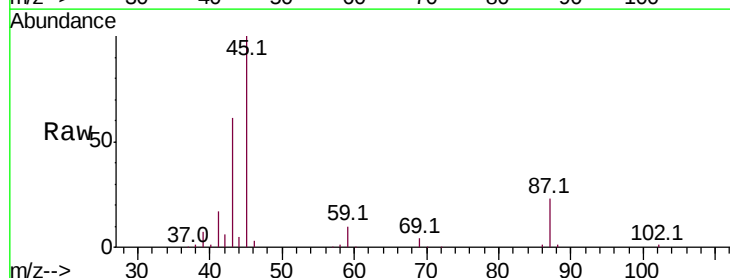
Ion Ratio Lower Upper

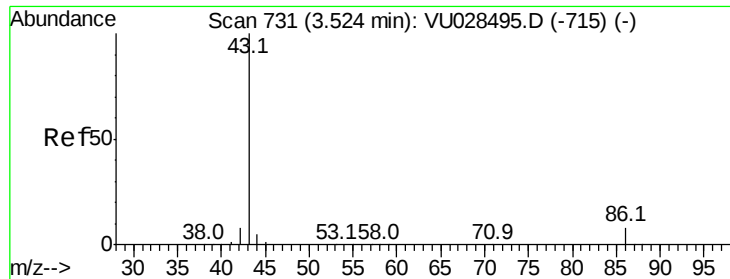
45 100

43 59.1 45.3 67.9

87 23.2 17.6 26.4

59 10.4 8.8 13.2





#23

Vinyl Acetate

Concen: 102.917 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 448210

Ion Ratio Lower Upper

43 100

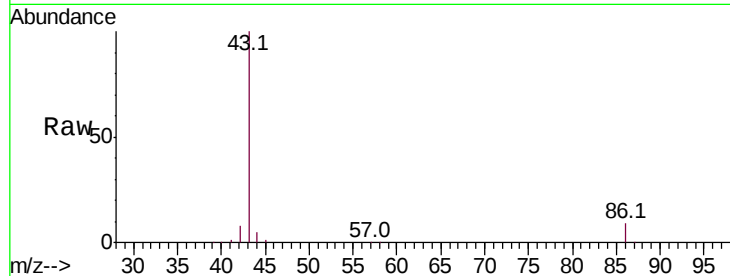
86 8.6 6.8 10.2

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

3.52

200000

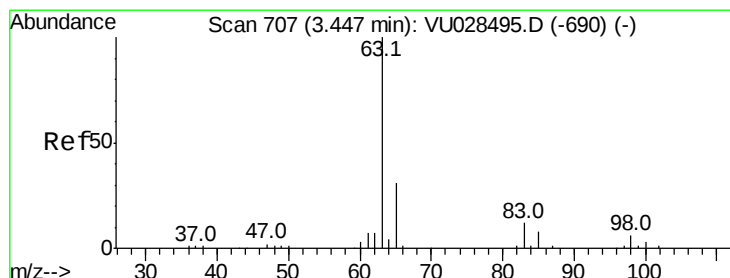
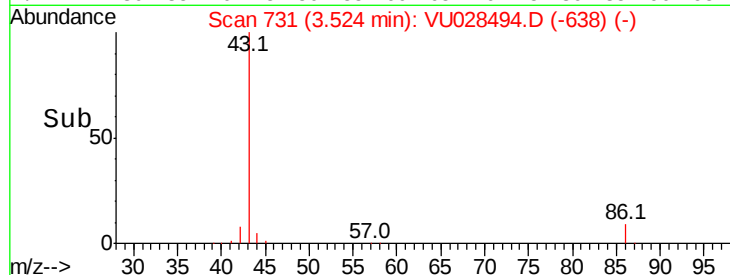
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.193 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

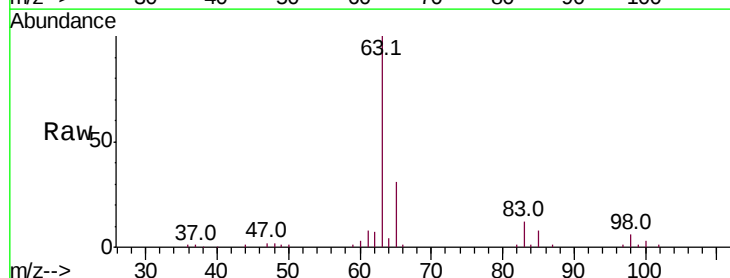
Tgt Ion: 63 Resp: 55809

Ion Ratio Lower Upper

63 100

98 5.9 3.0 9.2

100 3.2 1.7 5.1



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

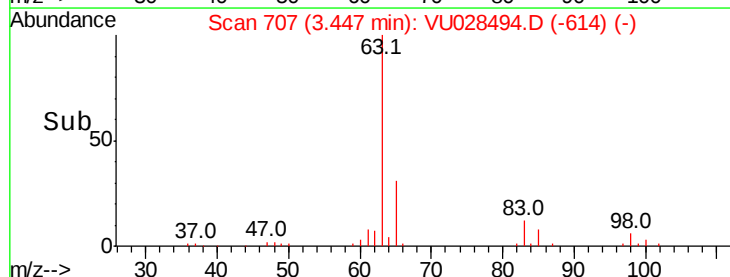
30000

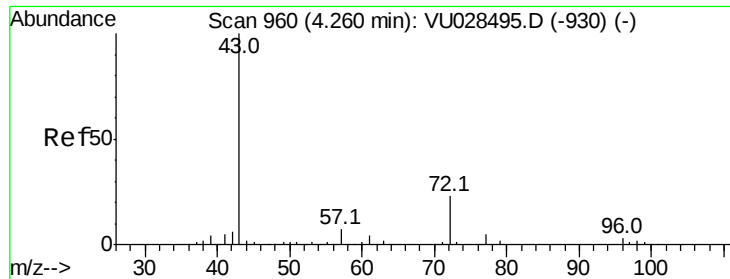
20000

10000

0

Time-->





#25

2-Butanone

Concen: 105.792 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 148408

Ion Ratio Lower Upper

43 100

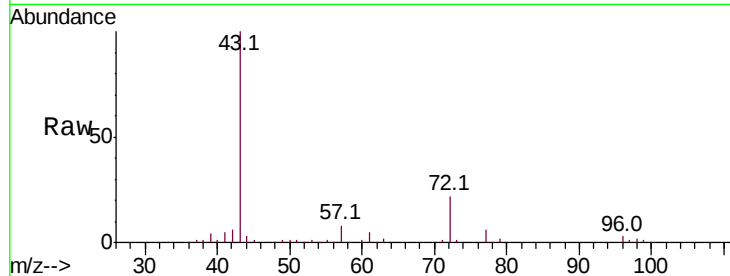
72 22.0 18.6 28.0

Manual Integrations

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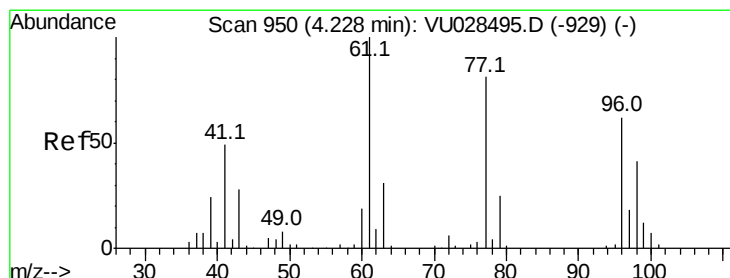
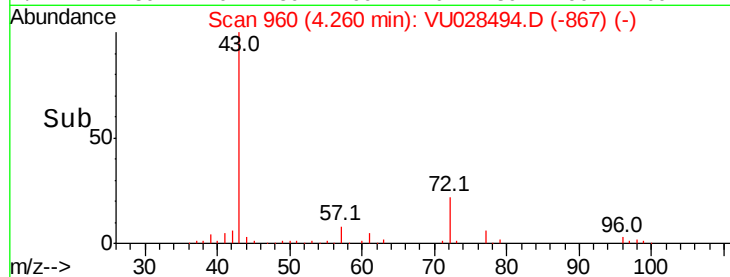
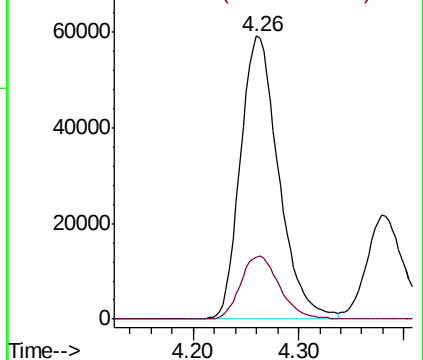
MMDadoda

12/7/2018 10:34:50 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 20.415 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028494.D

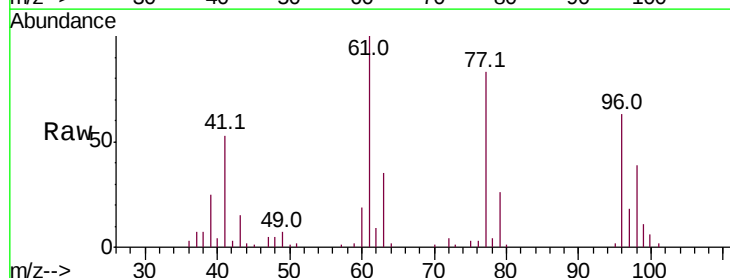
Acq: 06 Dec 2018 12:10

Tgt Ion: 77 Resp: 44706

Ion Ratio Lower Upper

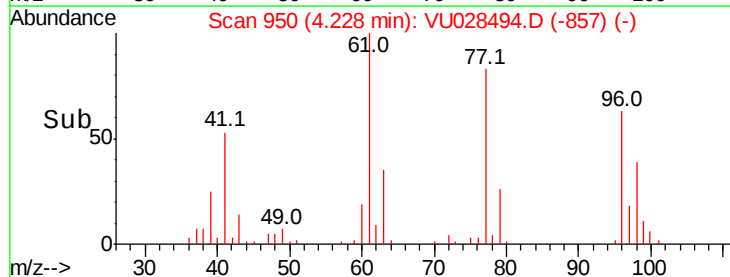
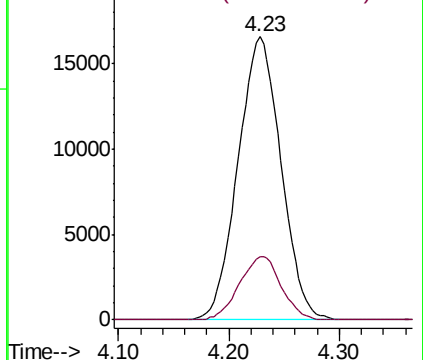
77 100

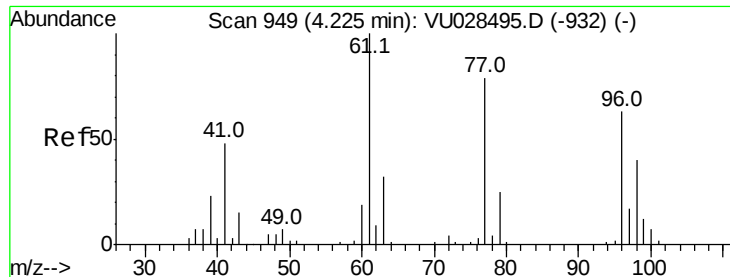
97 21.7 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

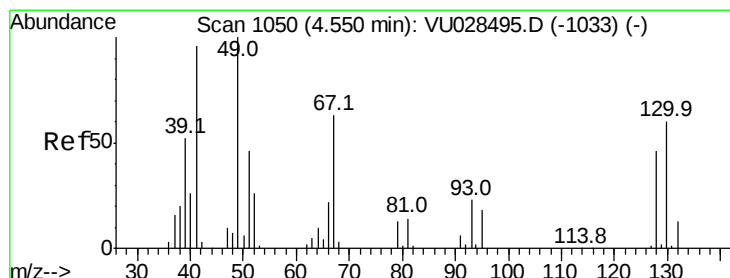
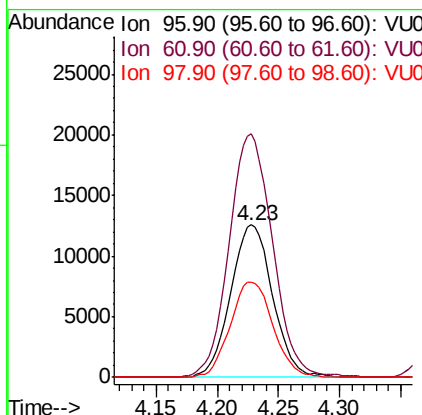
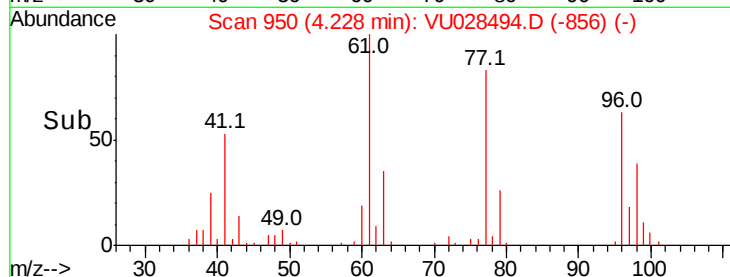
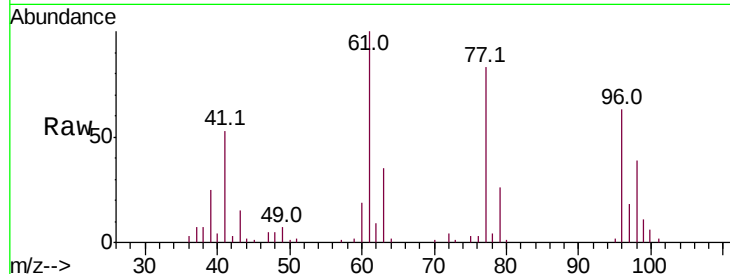
cis-1,2-Dichloroethene
Concen: 20.485 ug/l
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	165.9	0.0	332.4
98	63.8	0.0	129.0

Manual Integrations
APPROVED

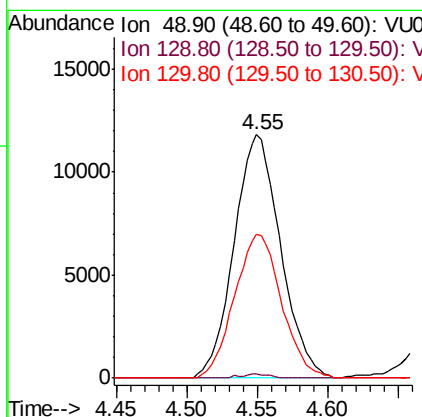
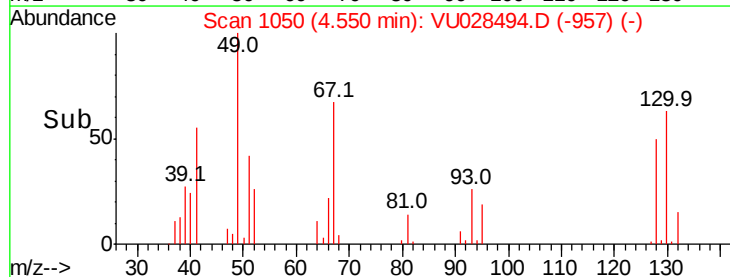
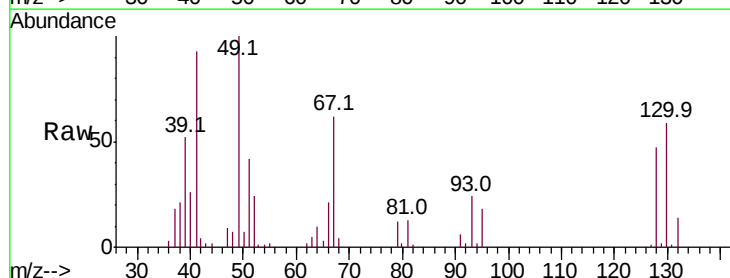
MMDadoda
12/7/2018 10:34:50 AM

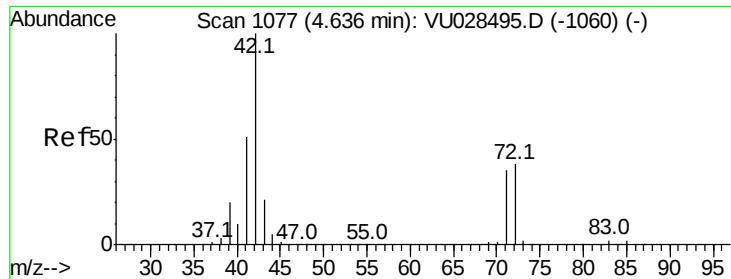


#28

Bromochloromethane
Concen: 21.642 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.0
130	59.8	47.8	71.8





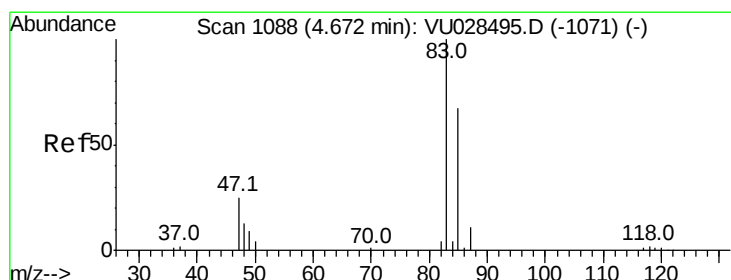
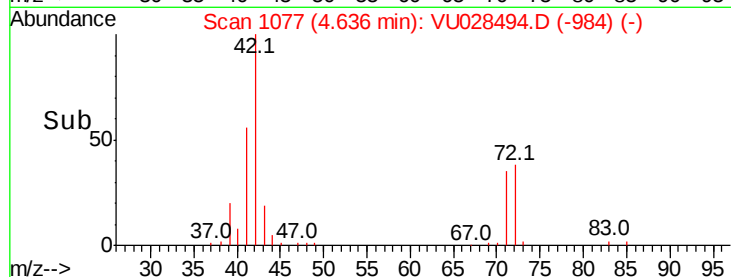
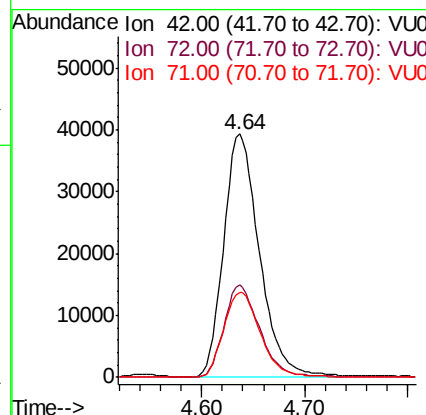
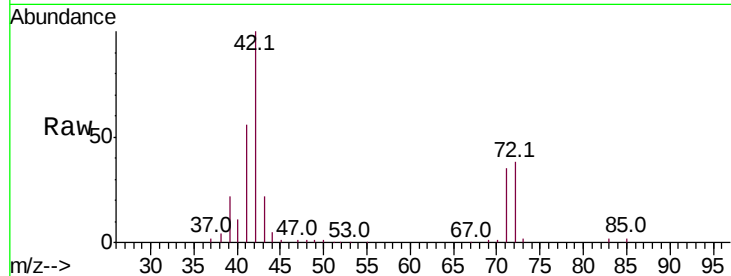
#29
Tetrahydrofuran
Concen: 104.592 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	31.4	47.0
71	36.1	28.6	43.0

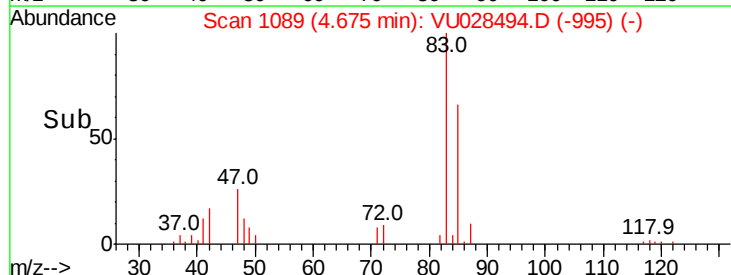
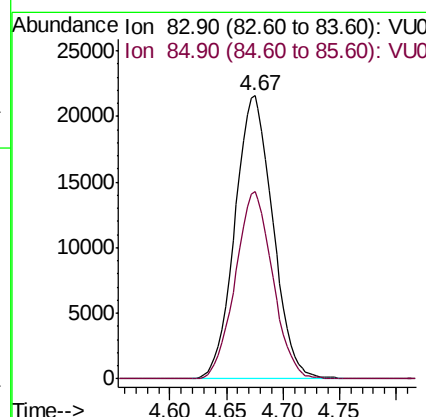
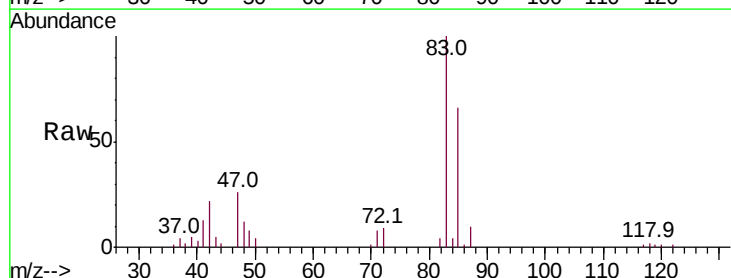
Manual Integrations
APPROVED

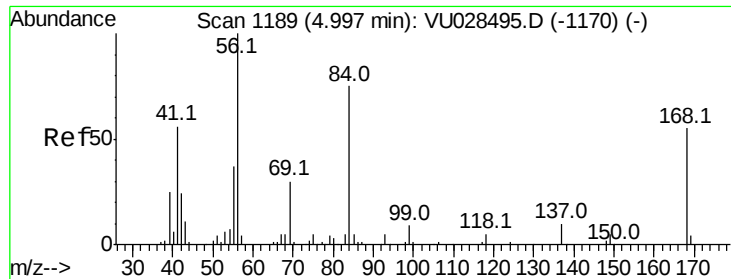
MMDadoda
12/7/2018 10:34:50 AM



#30
Chloroform
Concen: 20.928 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	53.6	80.4





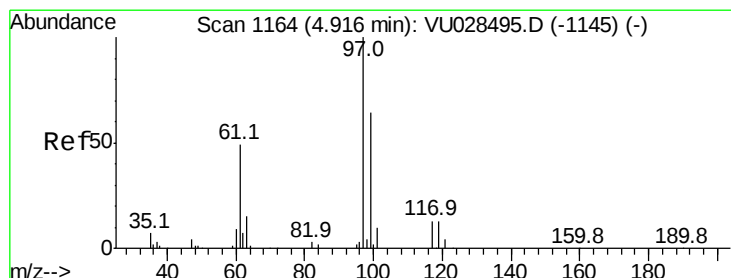
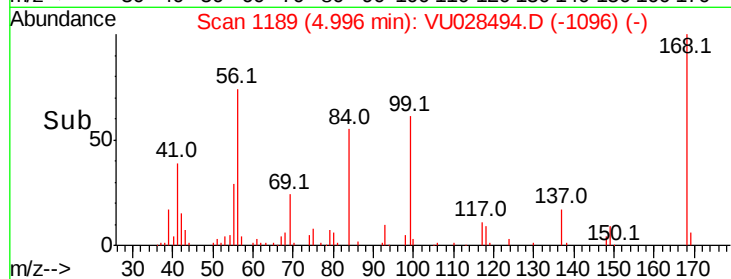
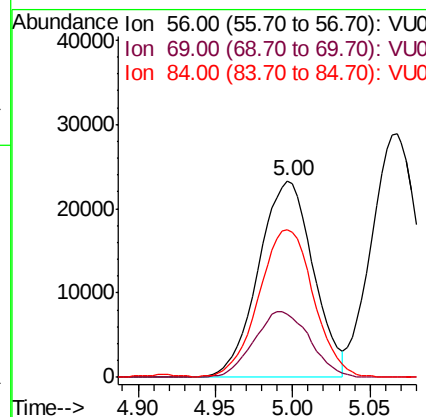
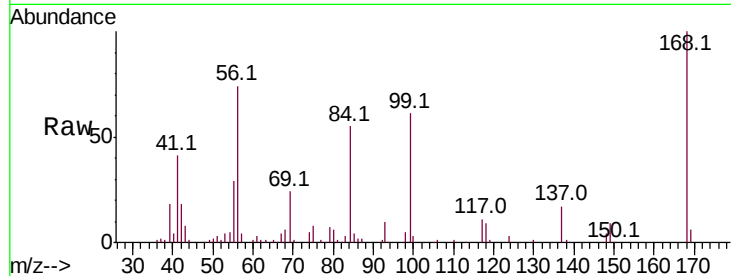
#31
Cyclohexane
Concen: 17.714 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	24.0	36.0
84	74.6	59.7	89.5

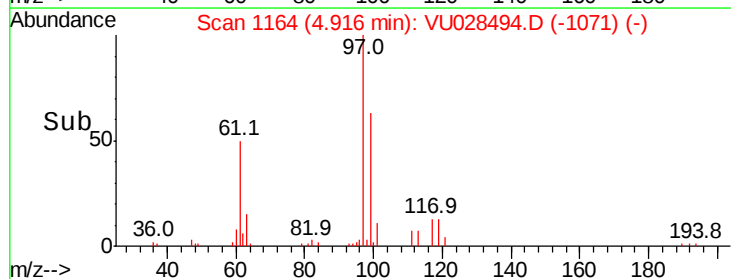
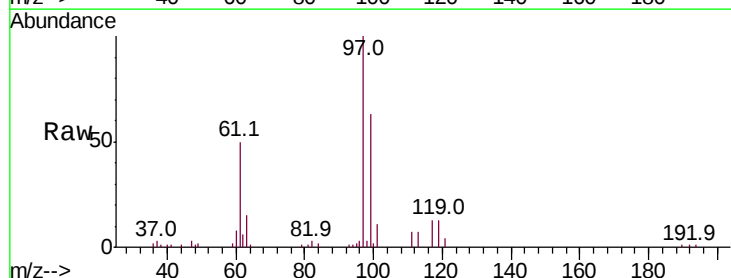
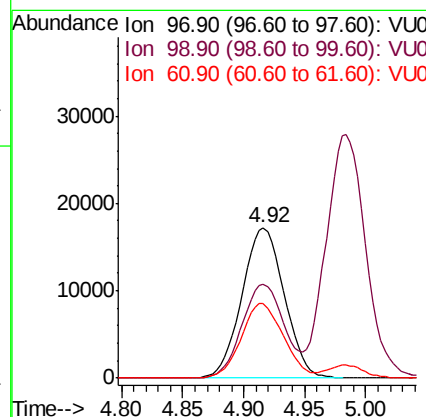
Manual Integrations
APPROVED

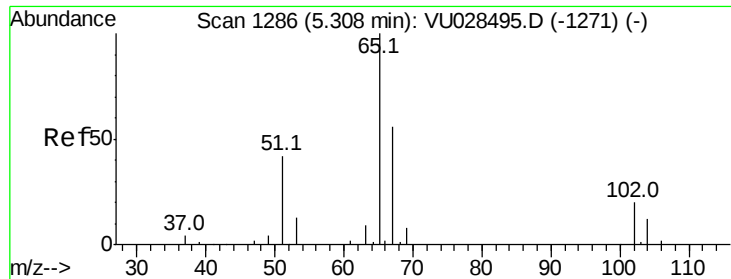
MMDadoda
12/7/2018 10:34:50 AM



#32
1,1,1-Trichloroethane
Concen: 20.680 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.7	52.3	78.5
61	49.3	39.0	58.6





#33

1,2-Dichloroethane-d4

Concen: 19.450 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 30596

Ion Ratio Lower Upper

65 100

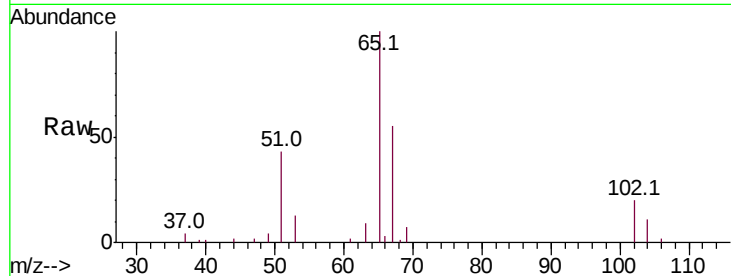
67 54.0 0.0 110.6

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:34:50 AM



Abundance Ion 64.90 (64.60 to 65.60): VU028495.D (-1271) (-)

Ion 66.90 (66.60 to 67.60): VU028495.D (-1271) (-)

5.31

15000

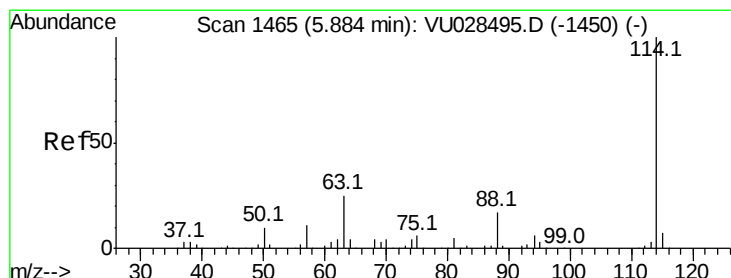
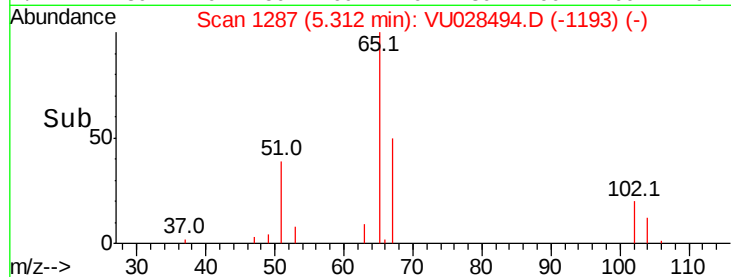
10000

5000

0

Time-->

5.25 5.30 5.35 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

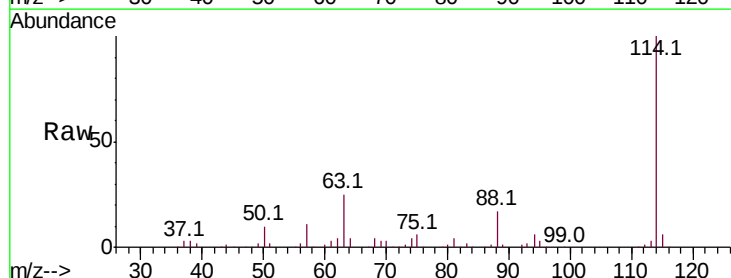
Tgt Ion: 114 Resp: 183915

Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.2

88 16.7 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): VU028495.D (-1450) (-)

Ion 63.00 (62.70 to 63.70): VU028495.D (-1450) (-)

Ion 87.90 (87.60 to 88.60): VU028495.D (-1450) (-)

5.89

120000

100000

80000

60000

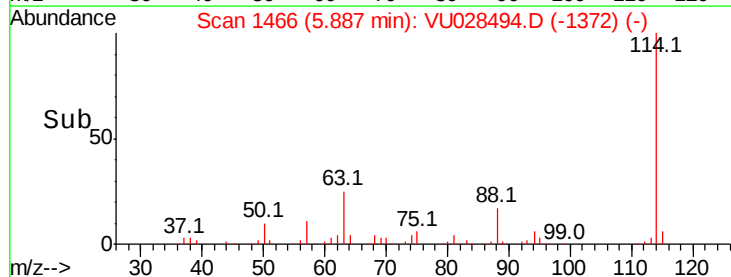
40000

20000

0

Time-->

5.80 5.90 6.00





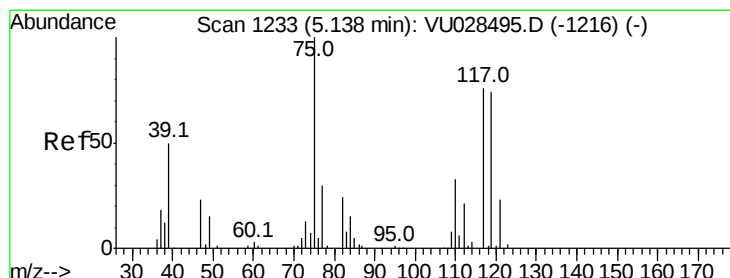
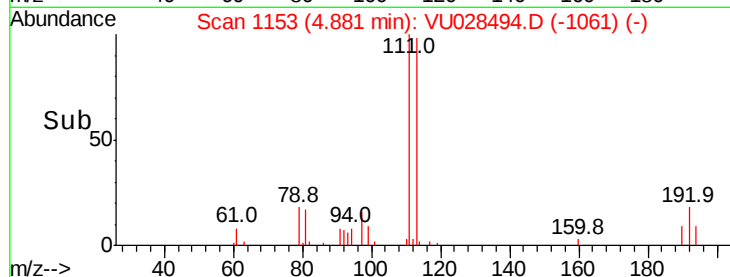
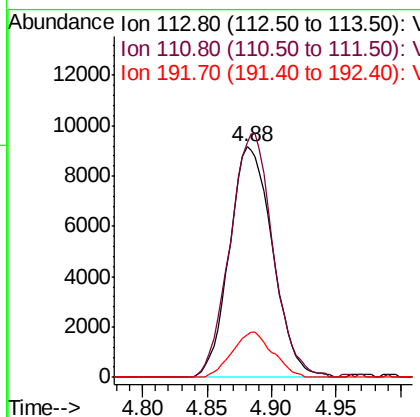
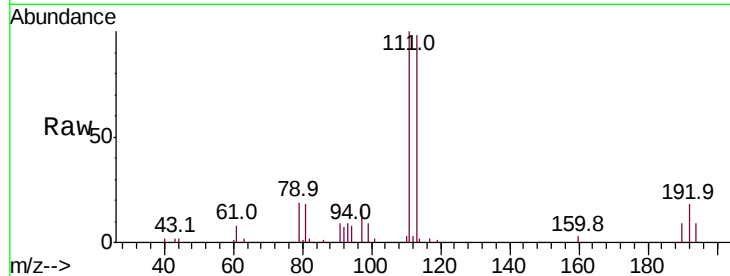
#35
 Dibromofluoromethane
 Concen: 18.480 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.9	83.4	125.0
192	18.3	14.8	22.2

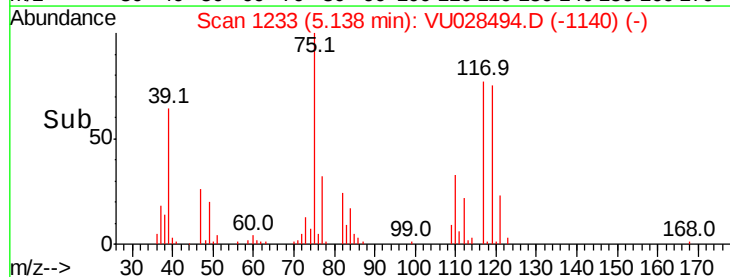
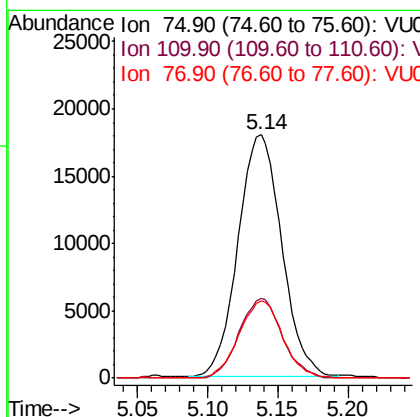
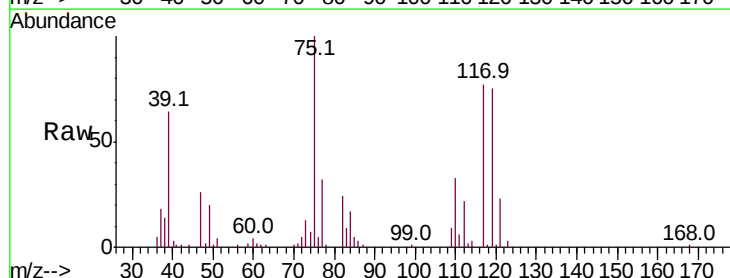
Manual Integrations
 APPROVED

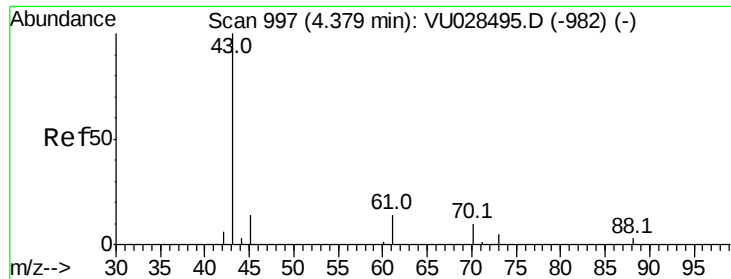
MMDadoda
 12/7/2018 10:34:50 AM



#36
 1,1-Dichloropropene
 Concen: 19.379 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.2	16.1	48.2
77	31.9	24.5	36.7





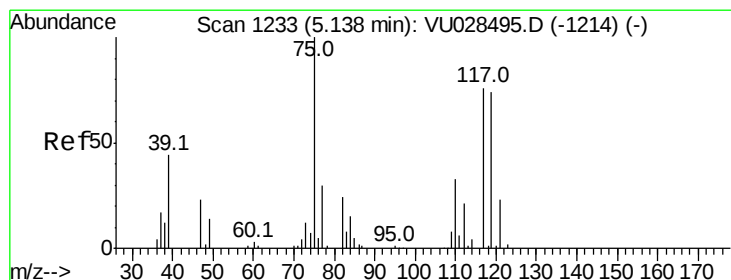
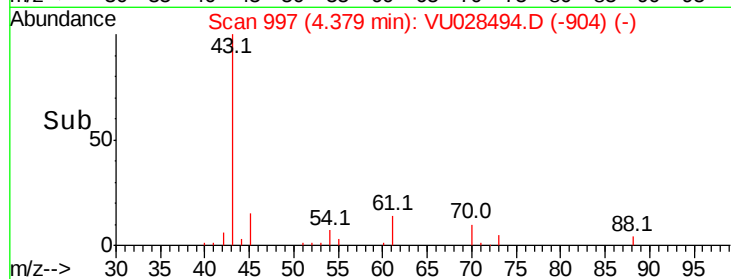
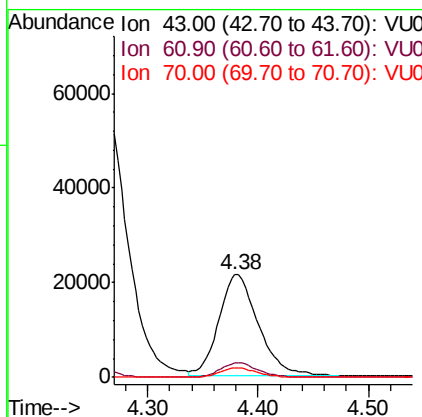
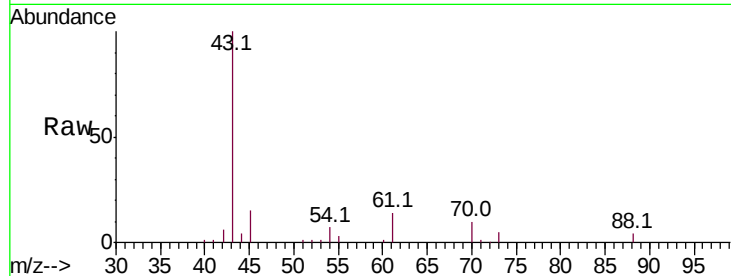
#37
Ethyl Acetate
Concen: 20.398 ug/l
RT: 4.38 min Scan# 997
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion:	43	Resp:	53067
Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.4
70	8.9	7.4	11.0

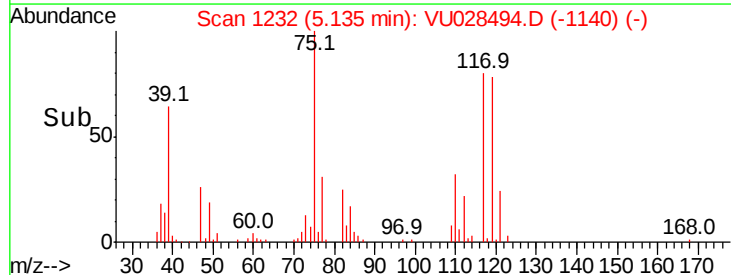
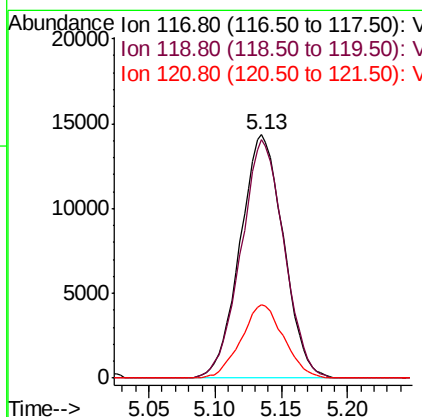
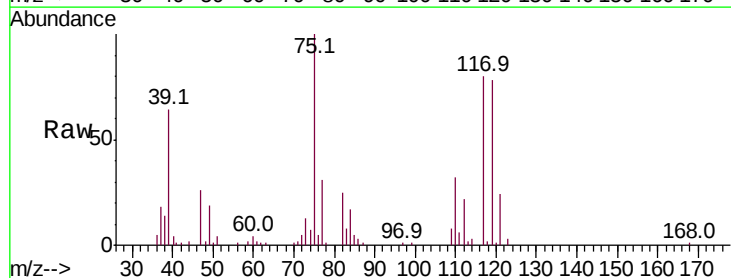
Manual Integrations
APPROVED

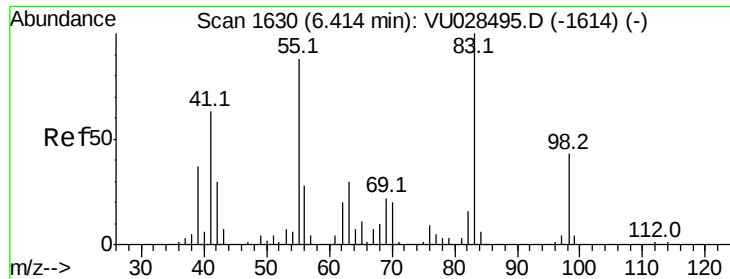
MMDadoda
12/7/2018 10:34:50 AM



#38
Carbon Tetrachloride
Concen: 20.140 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion:	117	Resp:	32669
Ion	Ratio	Lower	Upper
117	100		
119	97.7	77.6	116.4
121	30.1	24.6	36.8





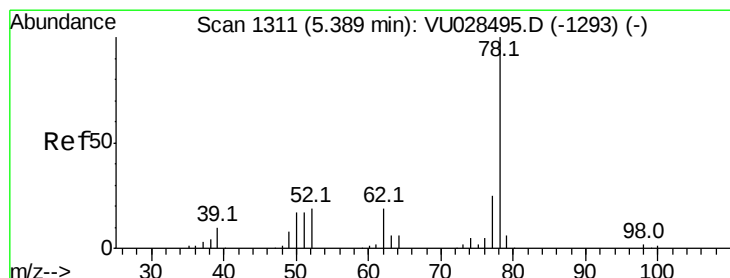
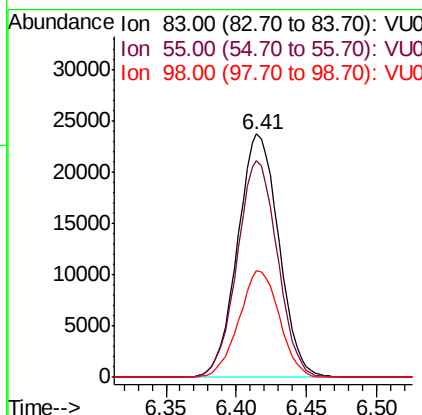
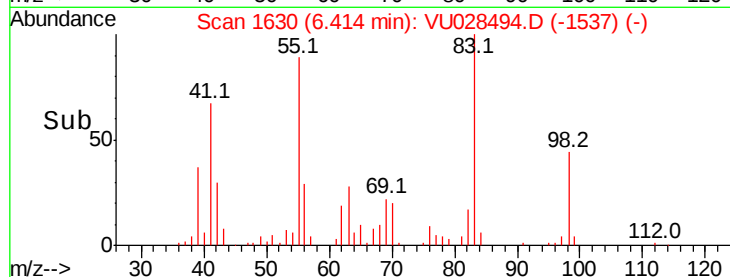
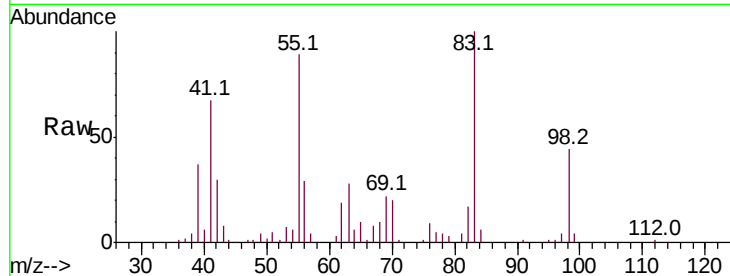
#39
Methvlcvclohexane
Concen: 19.799 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.1	70.2	105.2
98	43.9	34.2	51.4

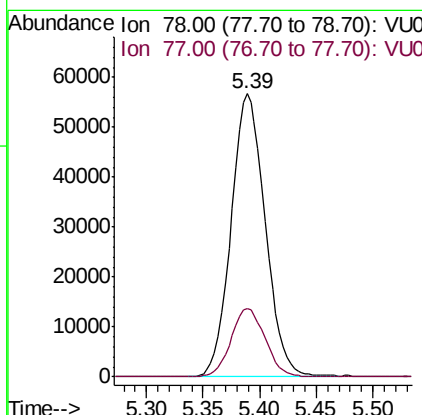
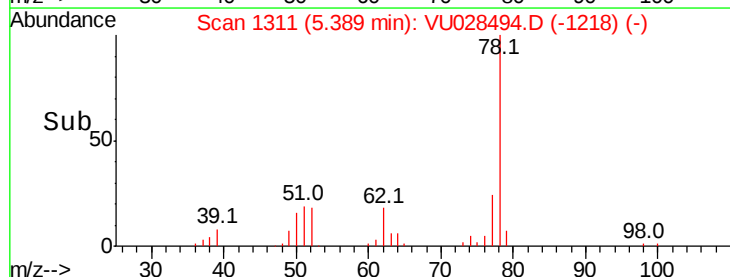
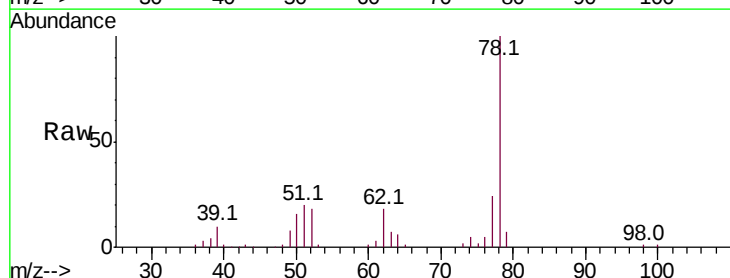
Manual Integrations
APPROVED

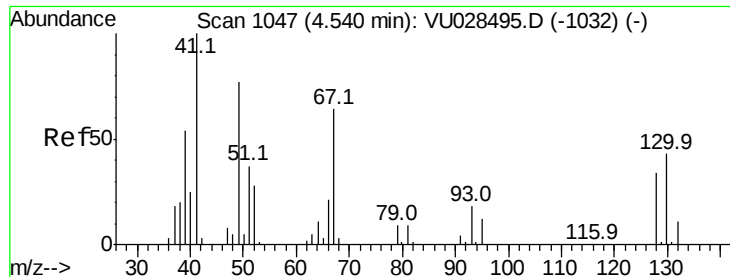
MMDadoda
12/7/2018 10:34:50 AM



#40
Benzene
Concen: 20.072 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.9	29.9





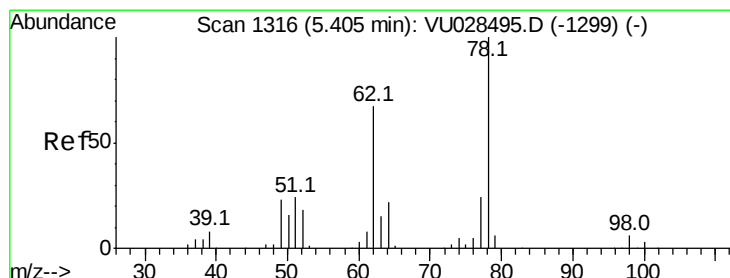
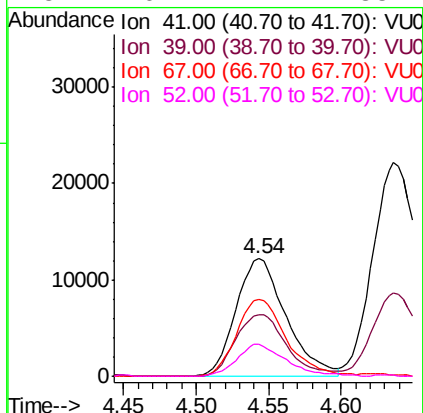
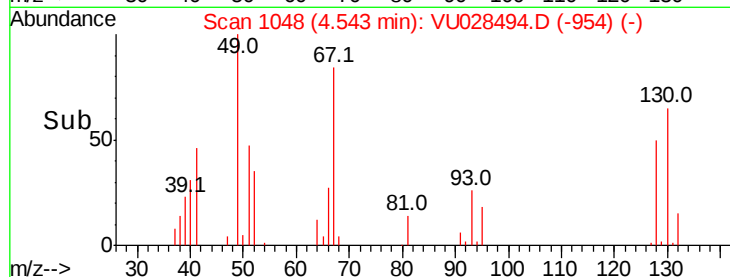
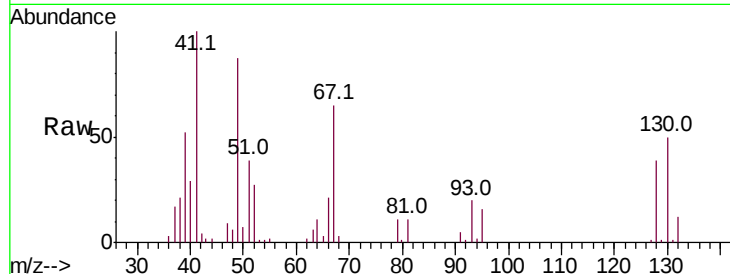
#41
Methacrylonitrile
Concen: 20.615 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.5	43.3	64.9
67	64.6	53.6	80.4
52	26.7	22.1	33.1

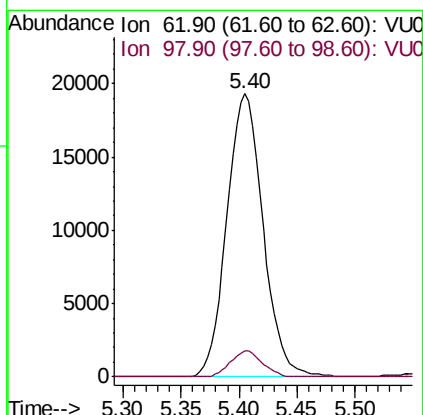
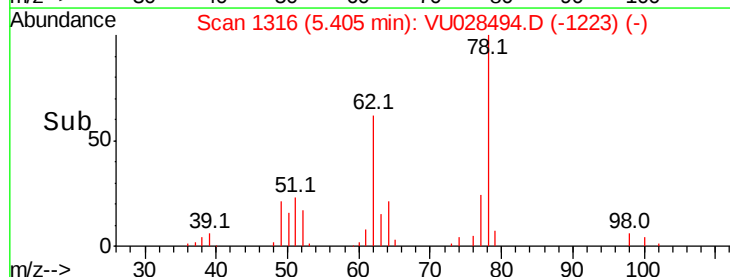
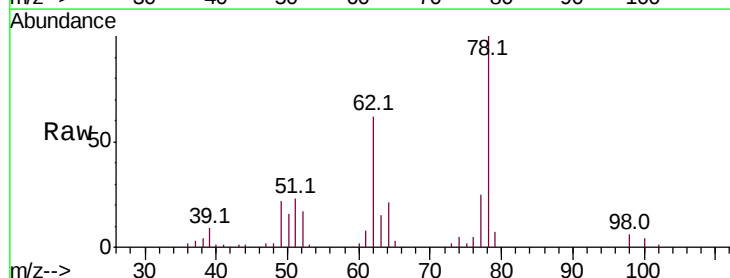
Manual Integrations
APPROVED

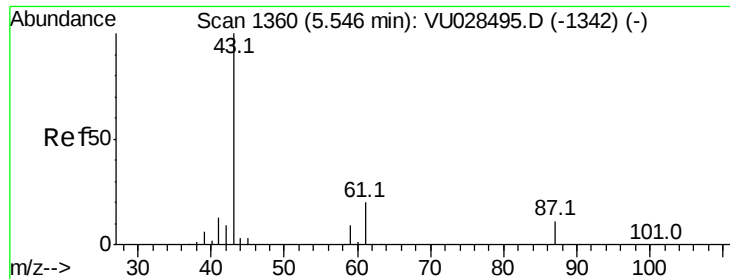
MMDadoda
12/7/2018 10:34:50 AM



#42
1,2-Dichloroethane
Concen: 20.129 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	17.2





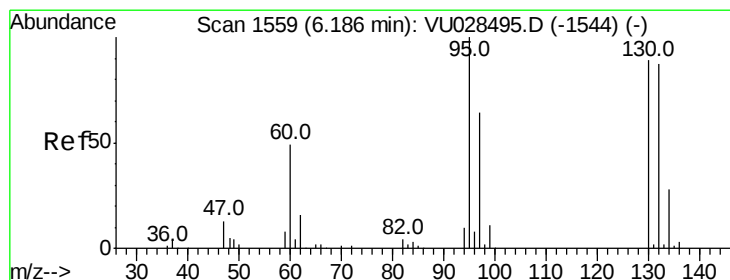
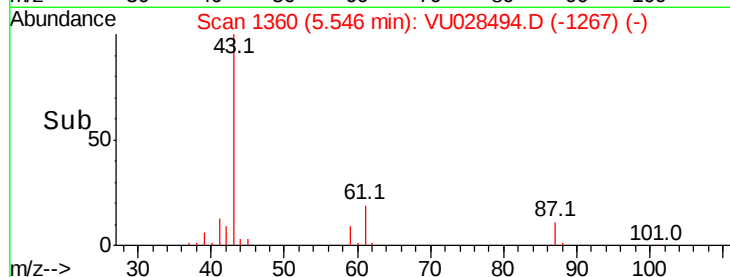
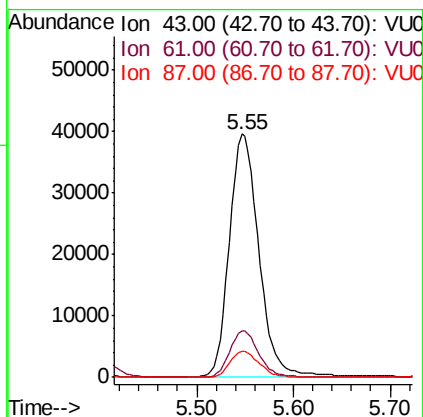
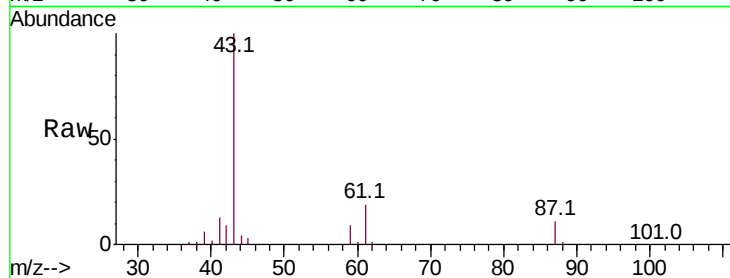
#43
Isopropyl Acetate
Concen: 20.468 ug/l
RT: 5.55 min Scan# 1360
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.5	23.3
87	10.7	8.7	13.1

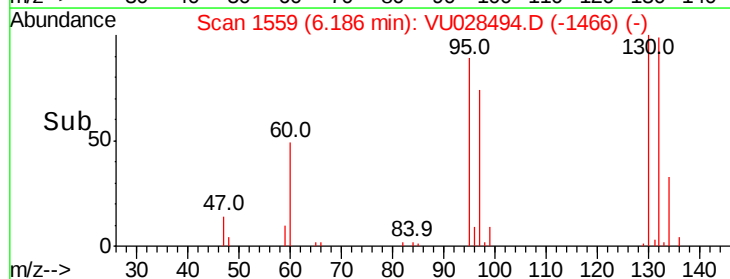
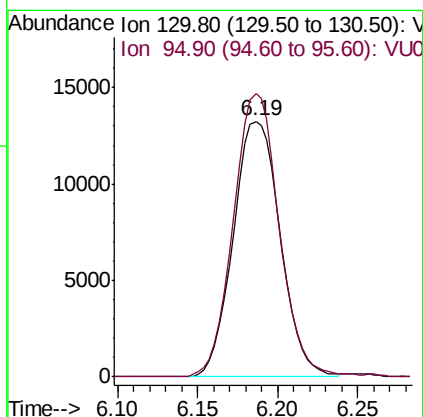
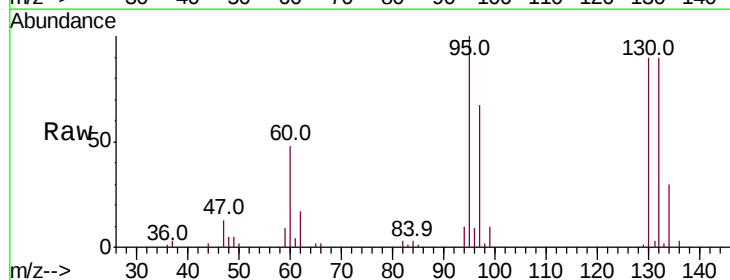
Manual Integrations
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12/7/2018 10:34:50 AM



#44
Trichloroethene
Concen: 20.164 ug/l
RT: 6.19 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	110.7	0.0	224.0





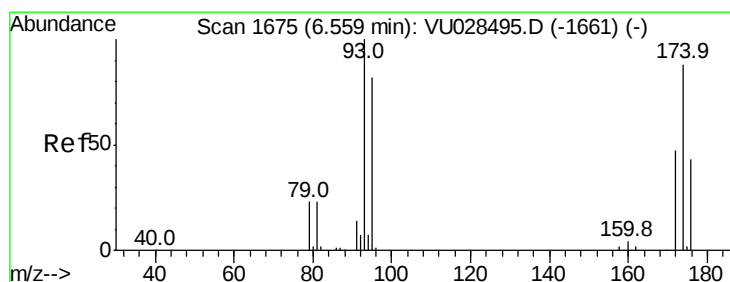
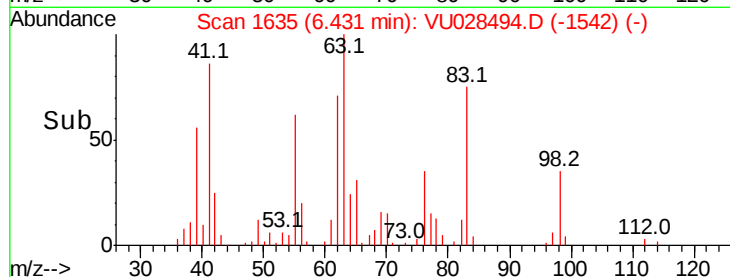
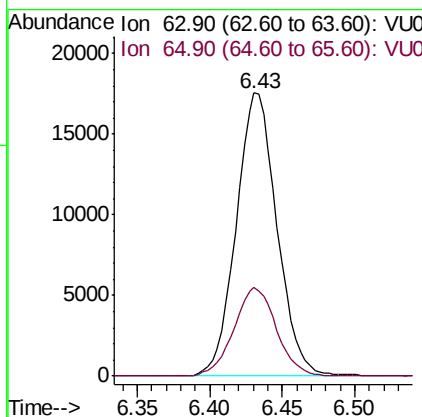
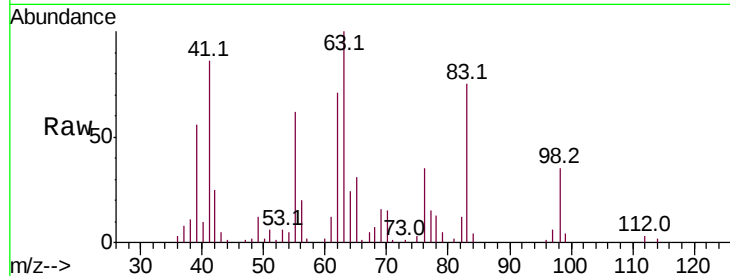
#45
 1,2-Dichloropropane
 Concen: 20.554 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 34260
 Ion Ratio Lower Upper
 63 100
 65 31.3 24.2 36.4

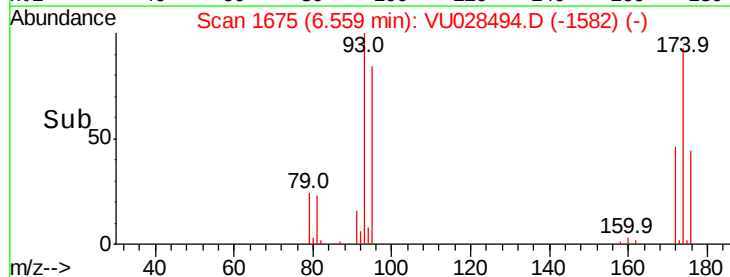
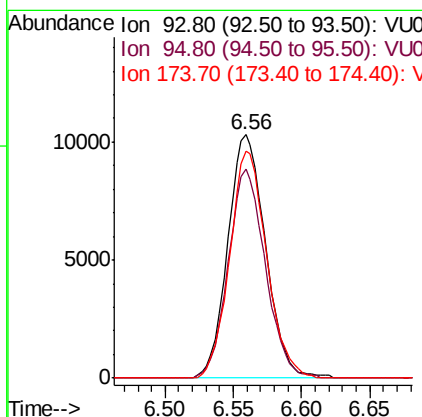
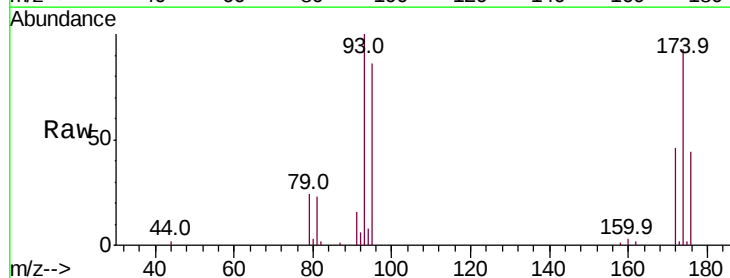
Manual Integrations
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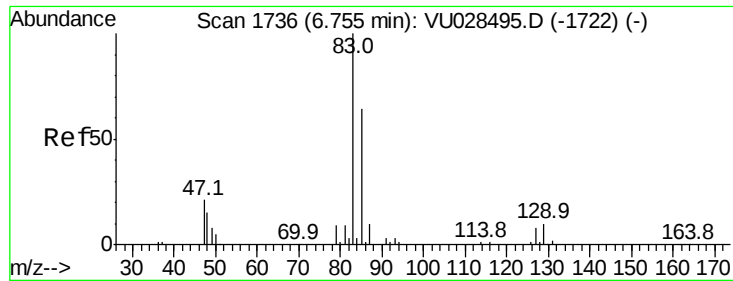
MMDadoda
 12/7/2018 10:34:50 AM



#46
 Dibromomethane
 Concen: 20.011 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Tgt Ion: 93 Resp: 19791
 Ion Ratio Lower Upper
 93 100
 95 84.4 65.4 98.2
 174 91.3 72.2 108.4





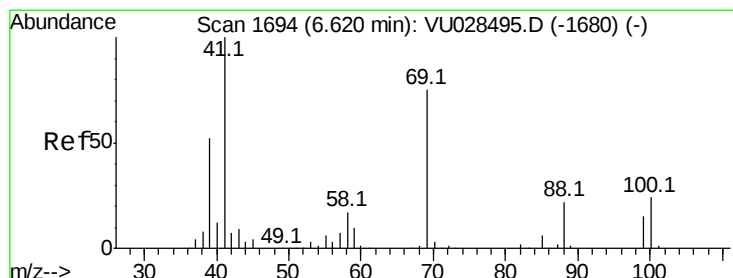
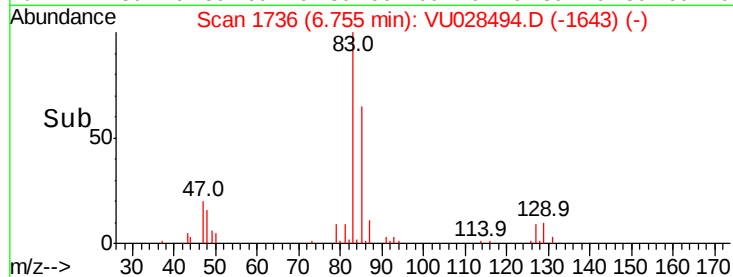
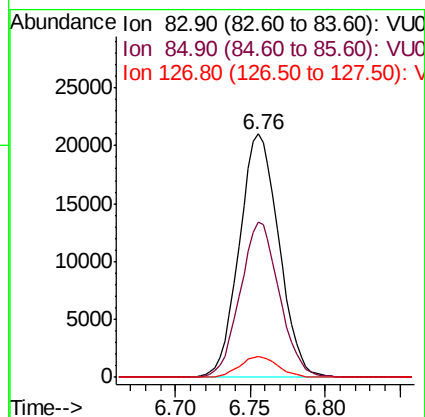
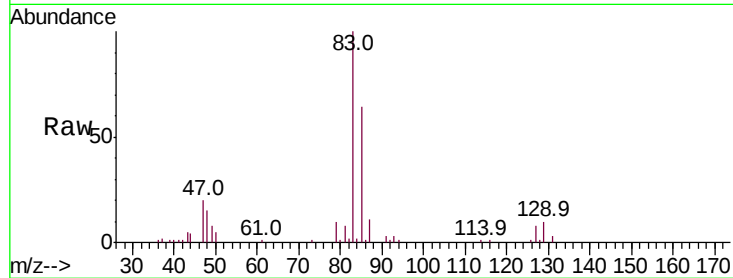
#47
Bromodichloromethane
Concen: 20.123 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	38726
Ion Ratio	100		
Lower	51.5		
Upper	77.3		
85	64.0		
127	8.3		

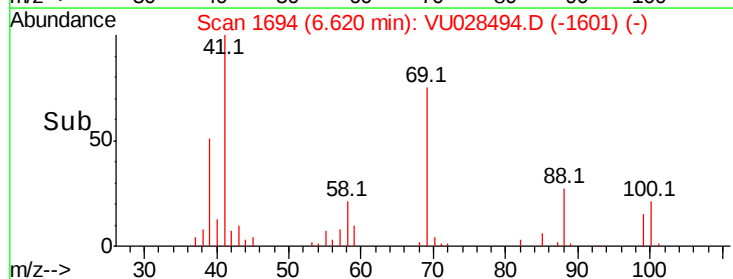
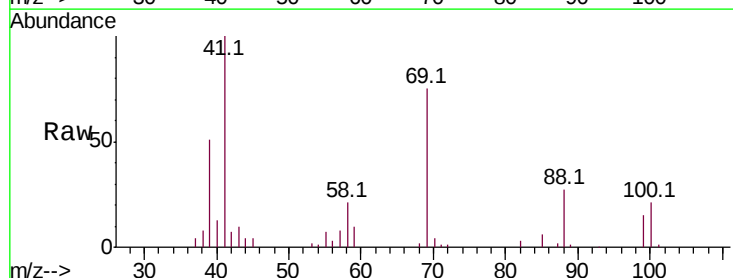
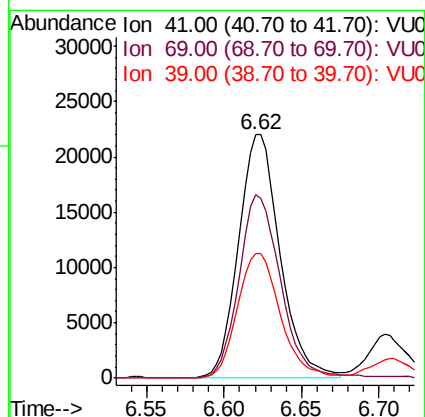
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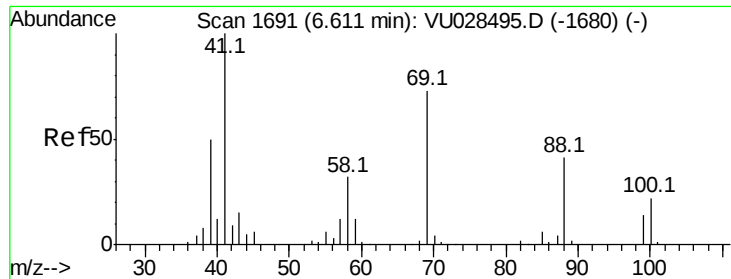
MMDadoda
12/7/2018 10:34:50 AM



#48
Methyl methacrylate
Concen: 20.162 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	41	Resp	41260
Ion Ratio	100		
Lower	60.4		
Upper	90.6		
69	75.9		
39	52.7		





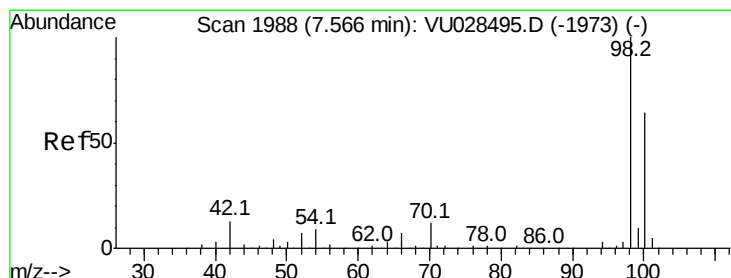
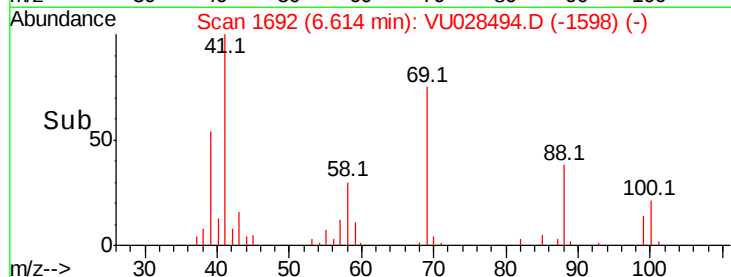
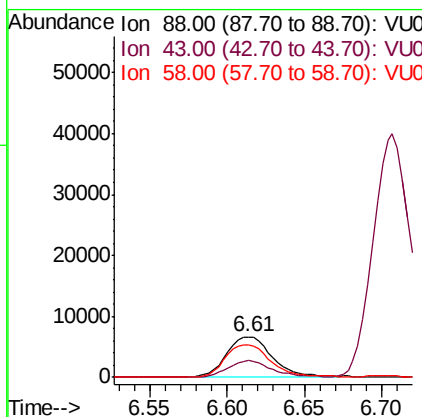
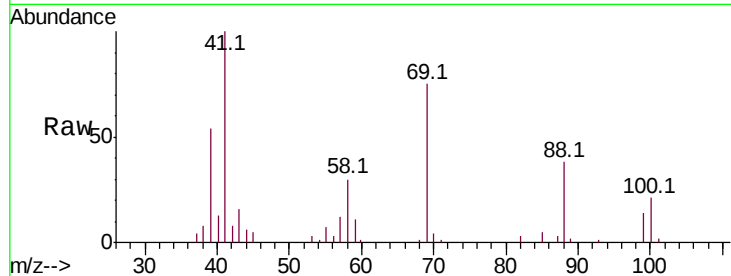
#49
1,4-Dioxane
Concen: 423.340 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.8	30.9	46.3
58	81.8	62.4	93.6

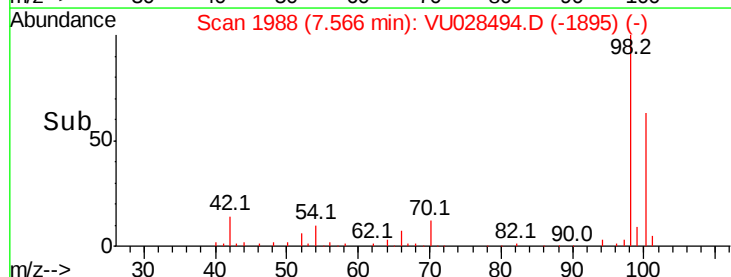
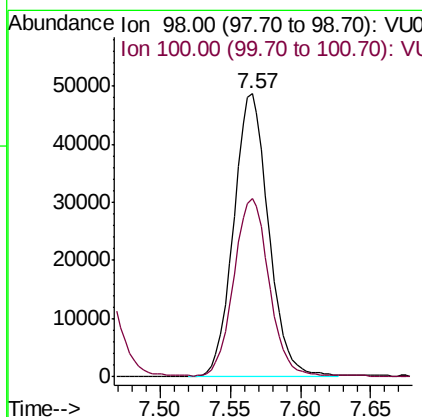
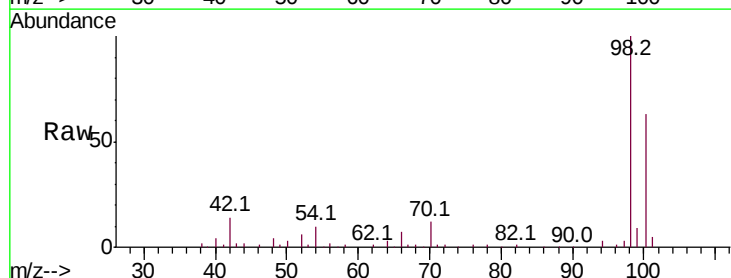
Manual Integrations
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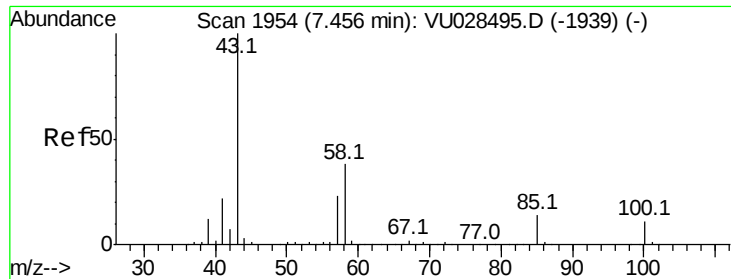
MMDadoda
12/7/2018 10:34:50 AM



#50
Toluene-d8
Concen: 18.520 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 101.002 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 262140

Ion Ratio Lower Upper

43 100

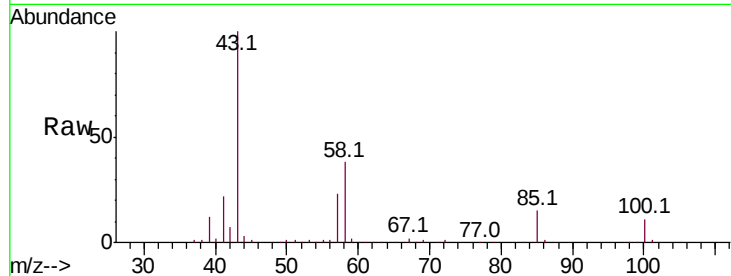
58 37.5 30.2 45.2

Manual Integrations

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12/7/2018 10:34:50 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

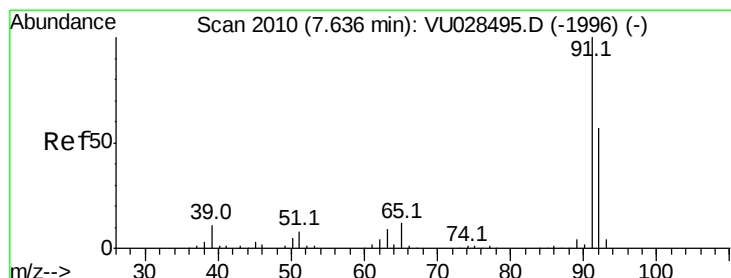
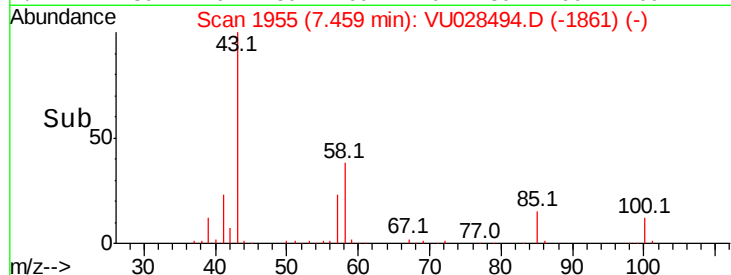
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.216 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028494.D

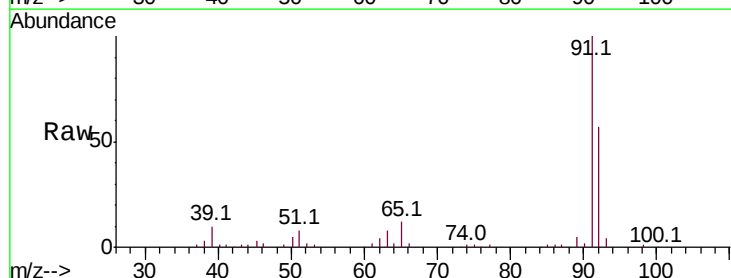
Acq: 06 Dec 2018 12:10

Tgt Ion: 92 Resp: 70522

Ion Ratio Lower Upper

92 100

91 175.4 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

7.64

80000

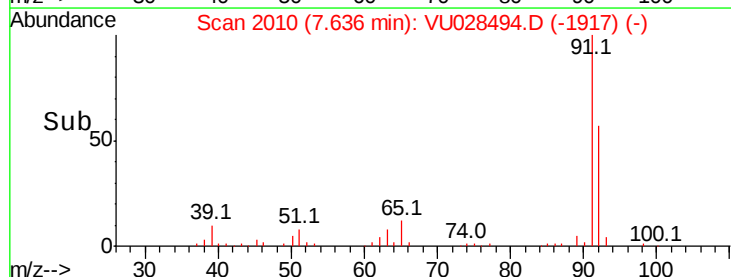
60000

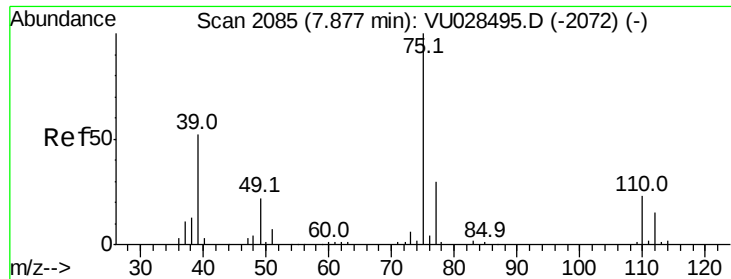
40000

20000

0

Time-->





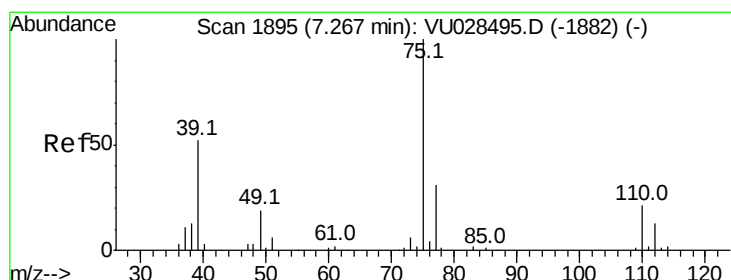
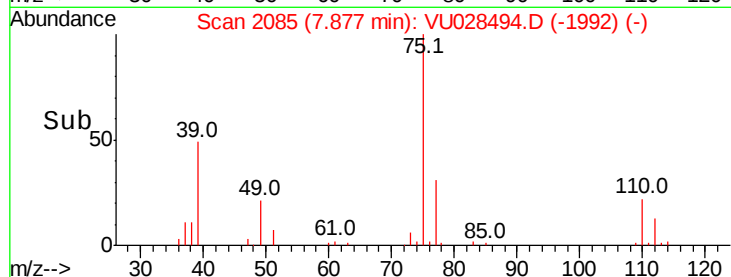
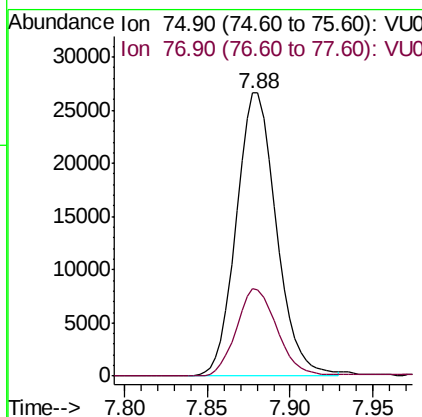
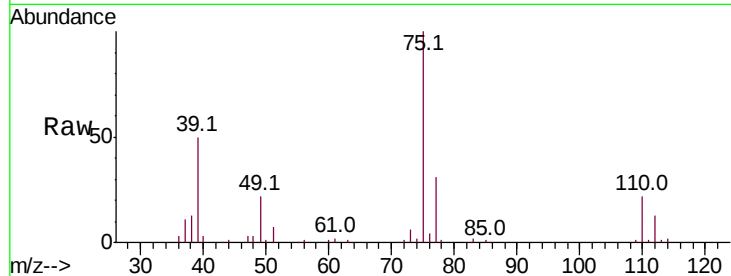
#53
t-1,3-Dichloropropene
Concen: 19.622 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 44975
Ion Ratio Lower Upper
75 100
77 30.9 24.2 36.4

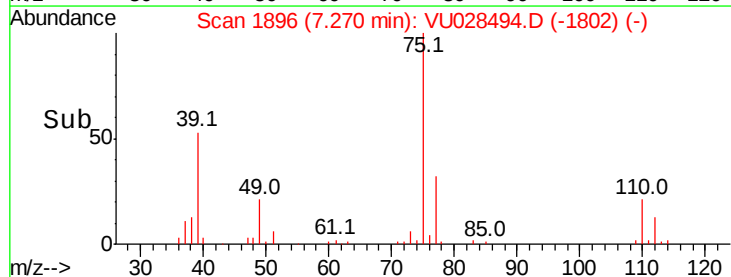
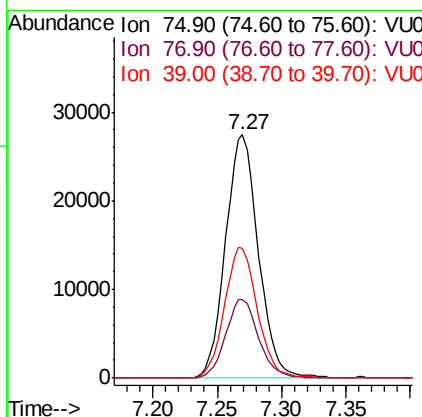
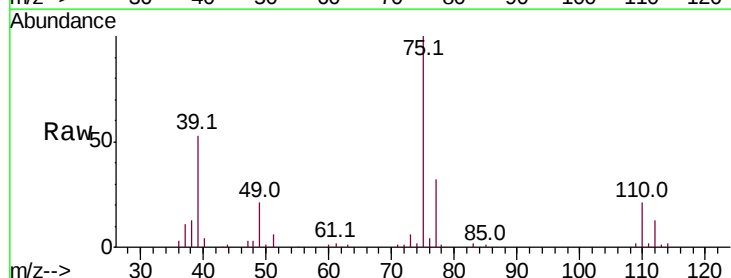
Manual Integrations
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12/7/2018 10:34:50 AM



#54
cis-1,3-Dichloropropene
Concen: 19.510 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion: 75 Resp: 48515
Ion Ratio Lower Upper
75 100
77 32.5 25.0 37.4
39 53.1 41.3 61.9





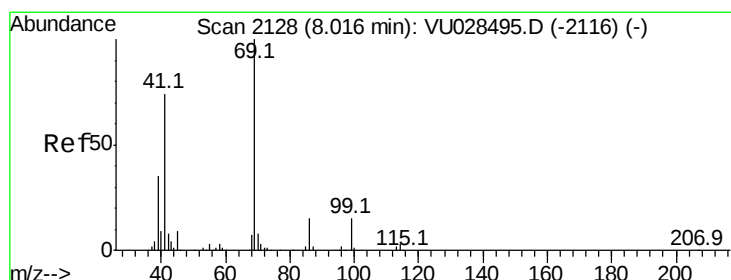
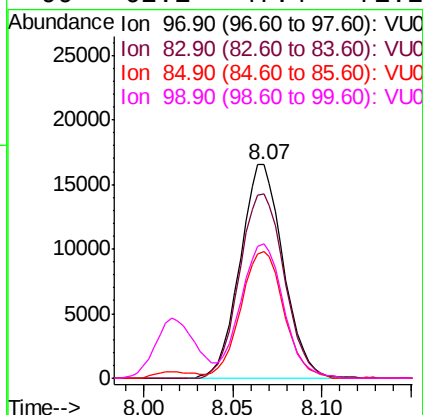
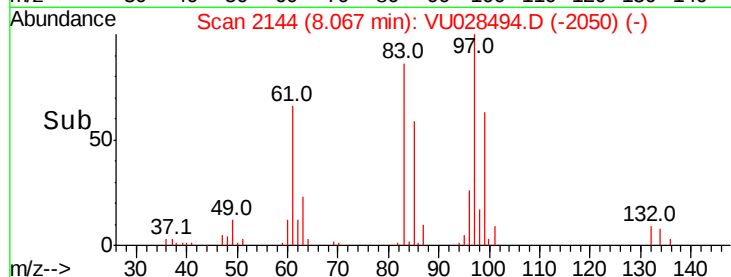
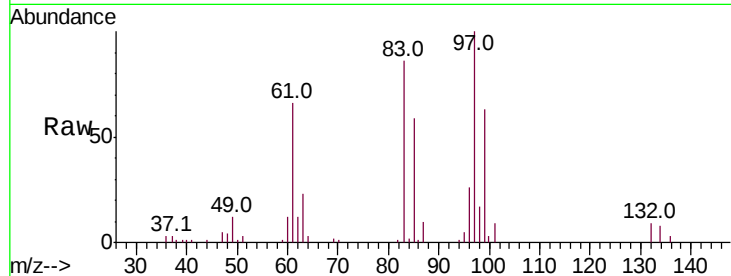
#55
1,1,2-Trichloroethane
Concen: 20.215 ug/l
RT: 8.07 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	97	Resp:	27875
Ion Ratio	Lower	Upper	
97	100		
83	86.3	72.4	108.6
85	59.2	46.0	69.0
99	62.1	47.4	71.2

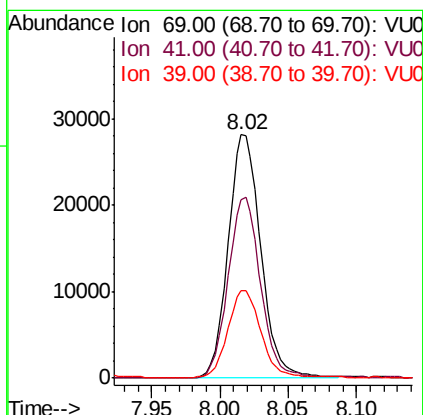
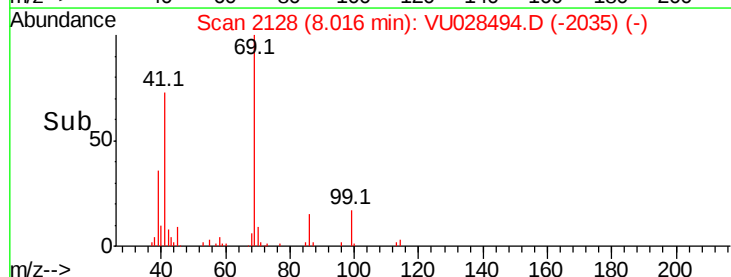
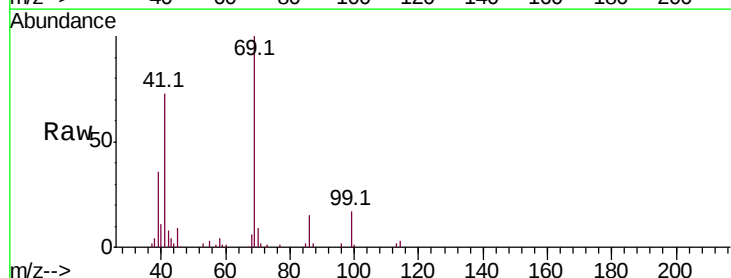
Manual Integrations
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12/7/2018 10:34:50 AM



#56
Ethyl methacrylate
Concen: 19.831 ug/l
RT: 8.02 min Scan# 2128
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	69	Resp:	46828
Ion Ratio	Lower	Upper	
69	100		
41	73.5	59.1	88.7
39	36.6	28.4	42.6





#57

1,3-Dichloropropane

Concen: 19.920 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 50990

Ion Ratio Lower Upper

76 100

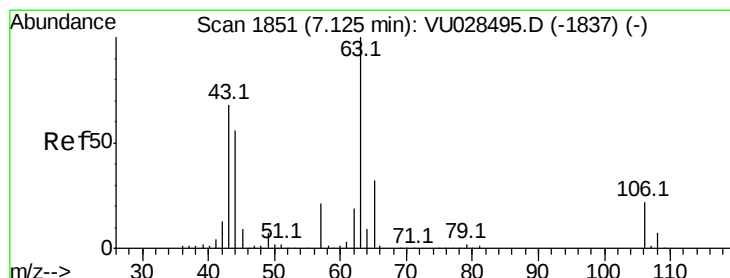
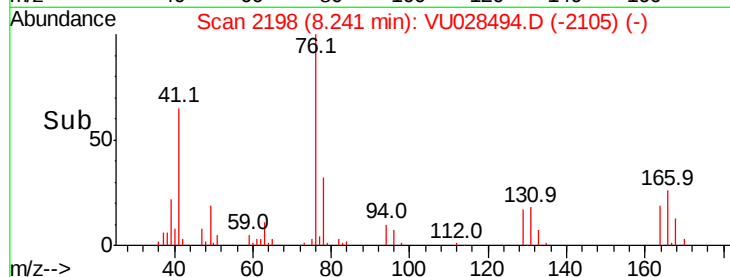
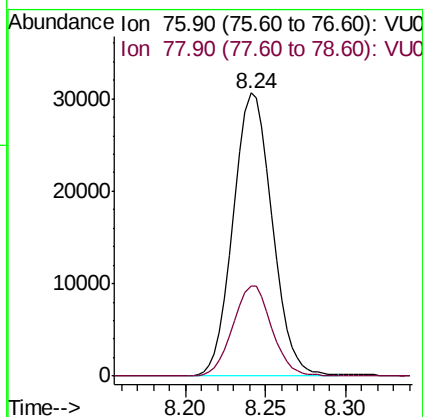
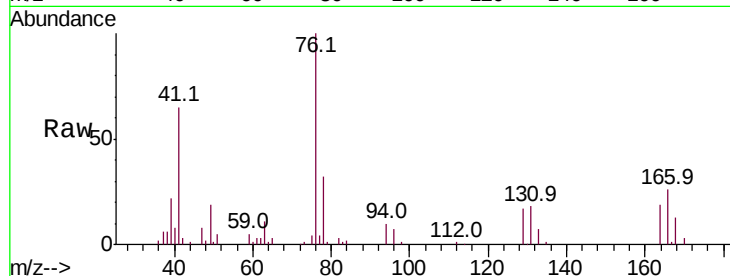
78 31.7 25.2 37.8

Manual Integrations

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MMDadoda

12/7/2018 10:34:50 AM



#58

2-Chloroethyl Vinyl ether

Concen: 101.591 ug/l

RT: 7.13 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VU028494.D

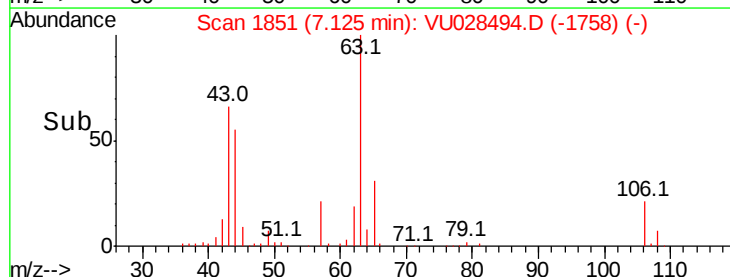
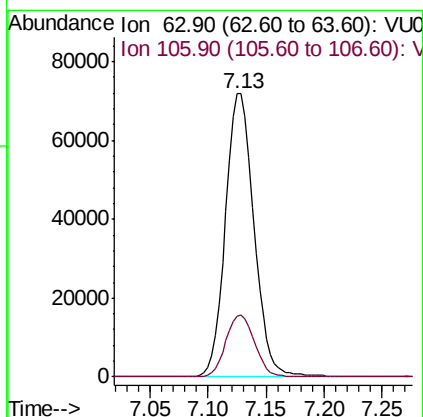
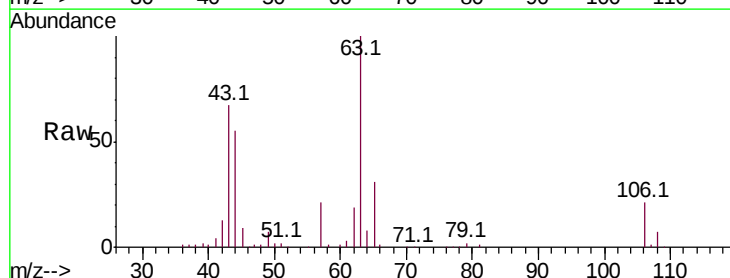
Acq: 06 Dec 2018 12:10

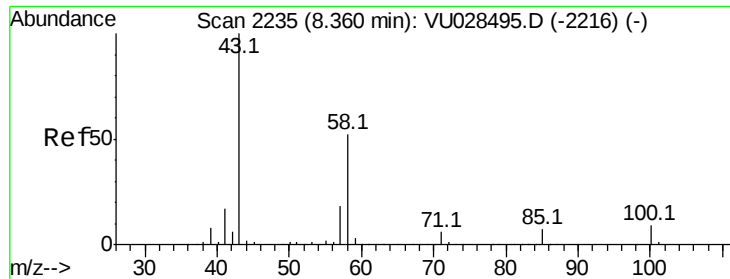
Tgt Ion: 63 Resp: 122875

Ion Ratio Lower Upper

63 100

106 22.0 17.8 26.6





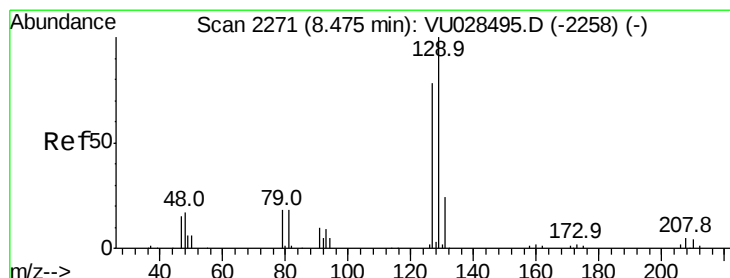
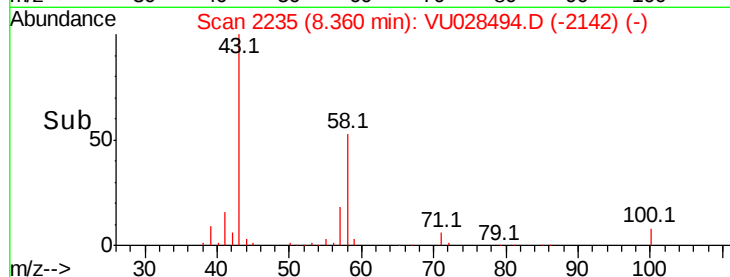
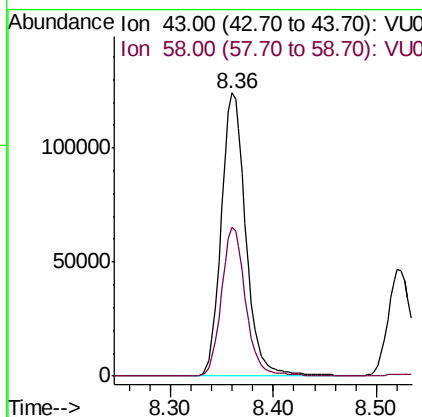
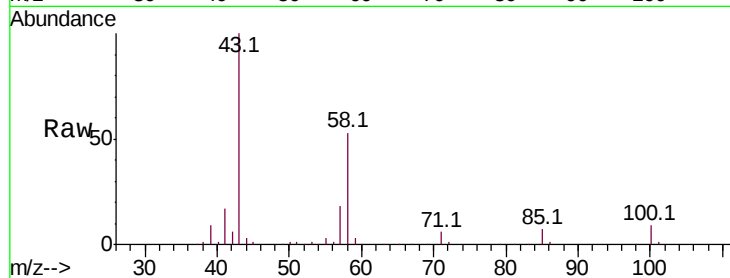
#59
2-Hexanone
Concen: 99.842 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 205386
Ion Ratio Lower Upper
43 100
58 51.7 25.9 77.6

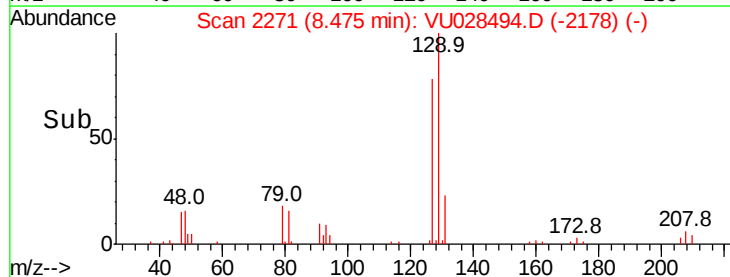
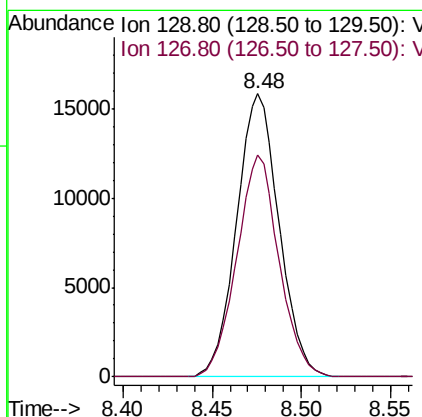
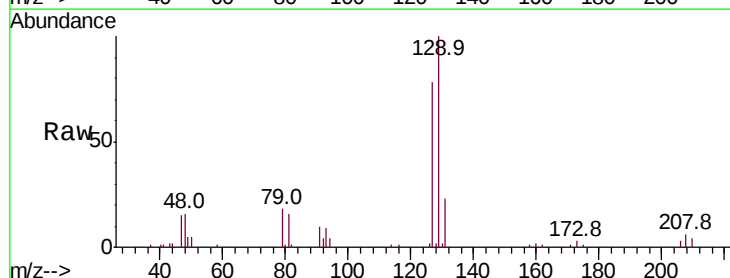
Manual Integrations
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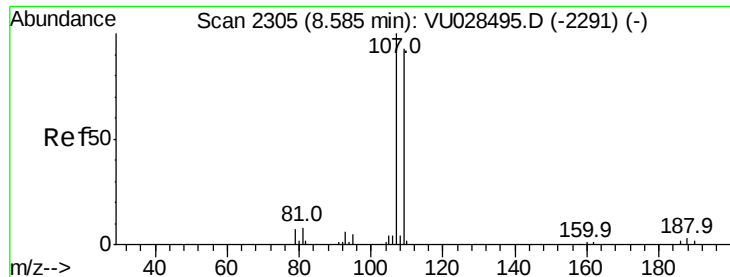
MMDadoda
12/7/2018 10:34:50 AM



#60
Dibromochloromethane
Concen: 19.435 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion: 129 Resp: 26238
Ion Ratio Lower Upper
129 100
127 78.1 39.1 117.3





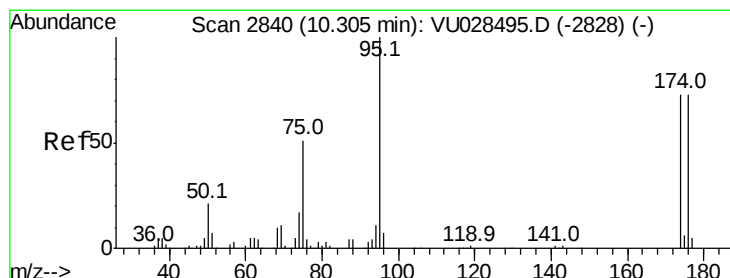
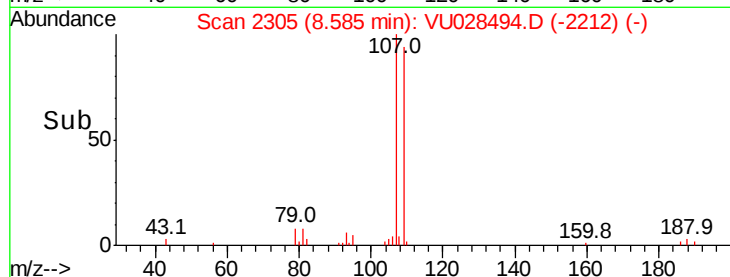
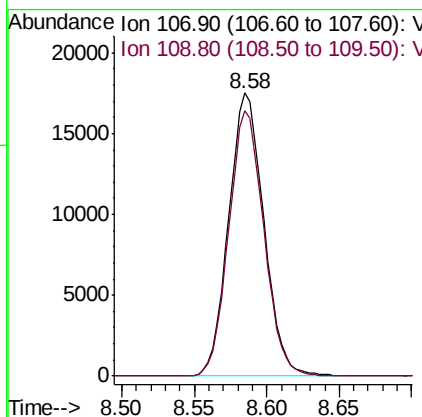
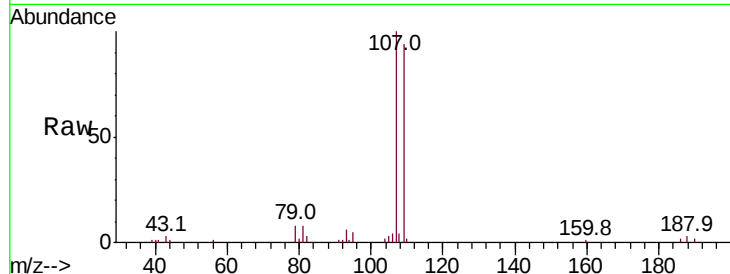
#61
 1,2-Dibromoethane
 Concen: 20.405 ug/l
 RT: 8.58 min Scan# 2305
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	74.5	111.7

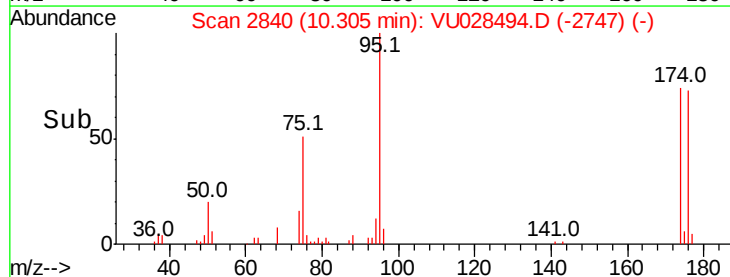
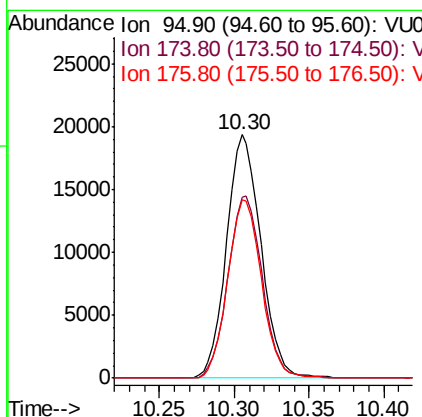
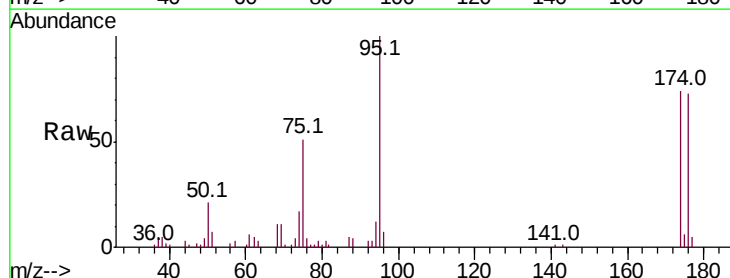
Manual Integrations
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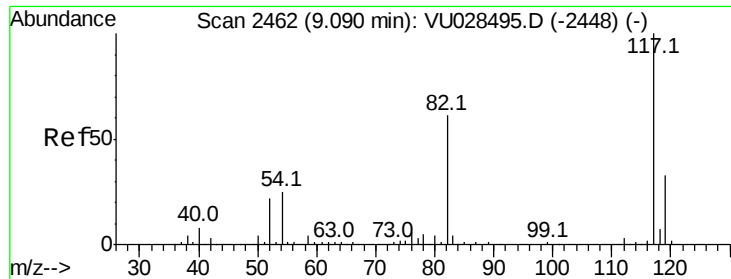
MMDadoda
 12/7/2018 10:34:50 AM



#62
 4-Bromofluorobenzene
 Concen: 18.133 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	150.4
176	72.2	0.0	145.2





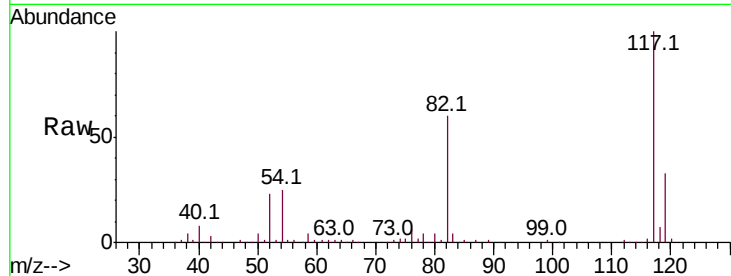
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.2	48.9	73.3
119	32.9	26.2	39.4

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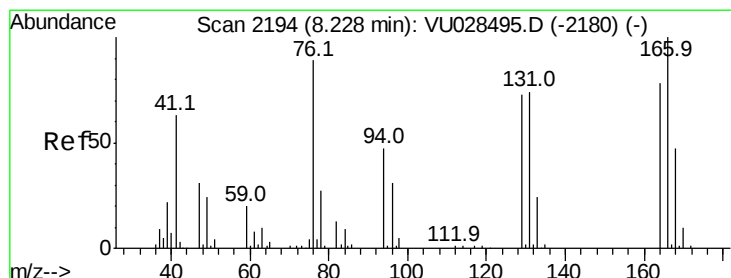
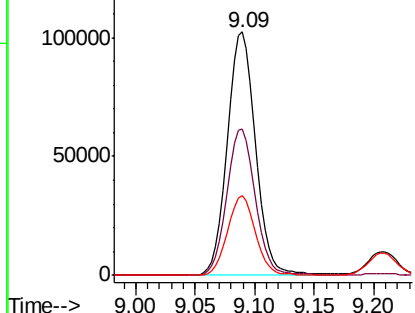
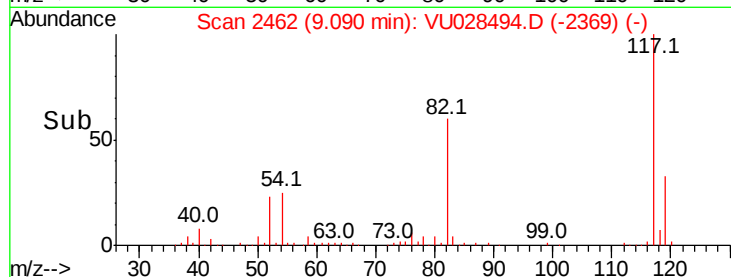


Abundance

Ion 116.90 (116.60 to 117.60): V

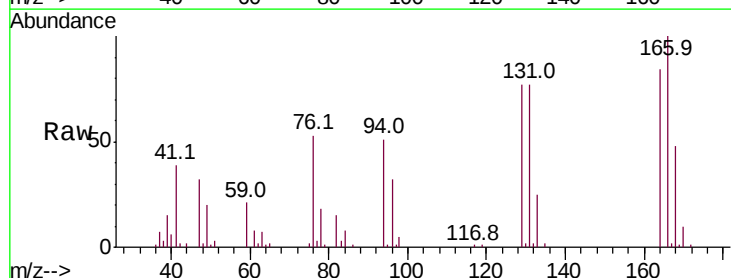
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 19.902 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.7	101.9	152.9
129	92.0	74.9	112.3
131	92.6	75.4	113.0



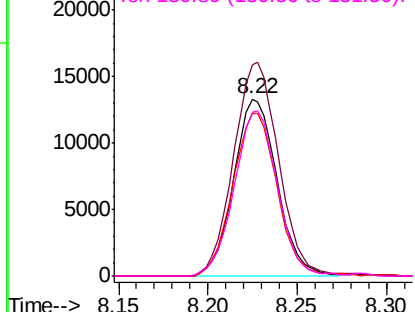
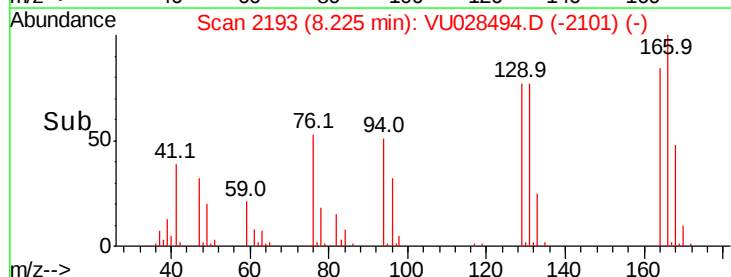
Abundance

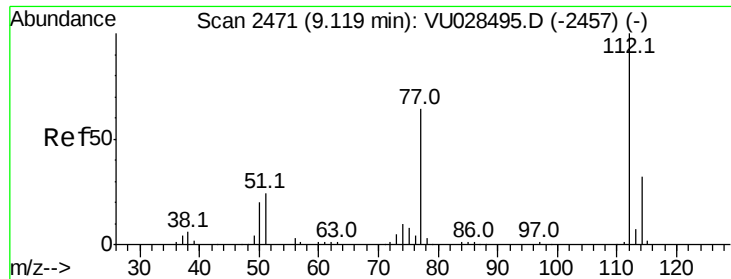
Ion 163.80 (163.50 to 164.50): V

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





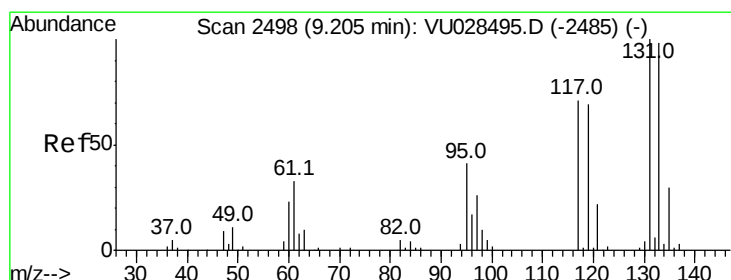
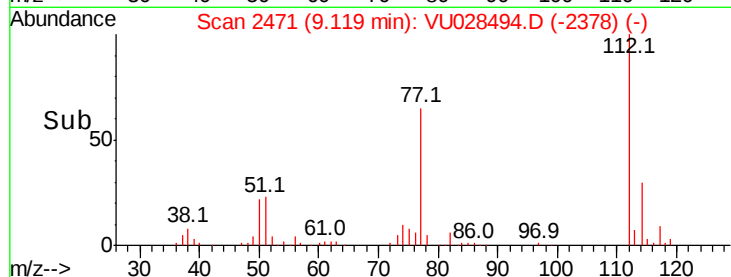
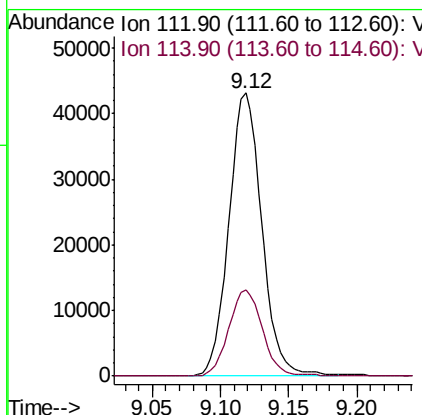
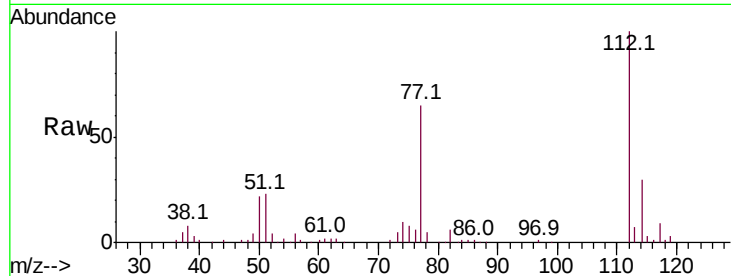
#65
Chlorobenzene
Concen: 20.146 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 72601
Ion Ratio Lower Upper
112 100
114 30.3 25.3 37.9

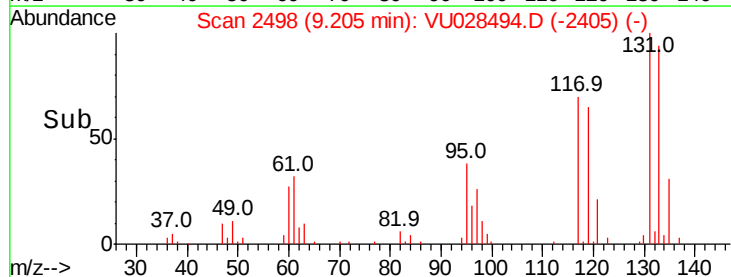
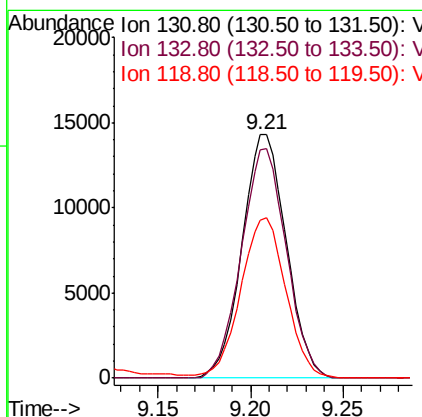
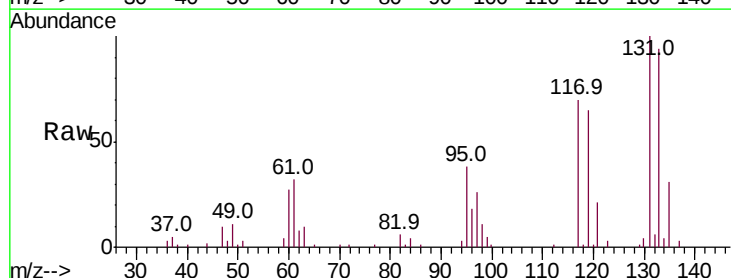
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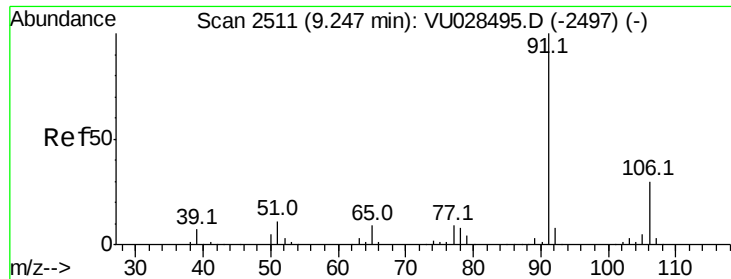
MMDadoda
12/7/2018 10:34:50 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.563 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion:131 Resp: 23664
Ion Ratio Lower Upper
131 100
133 95.9 48.0 144.0
119 67.4 34.6 103.9





#67

Ethyl Benzene

Concen: 19.985 ug/l

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 132401

Ion Ratio Lower Upper

91 100

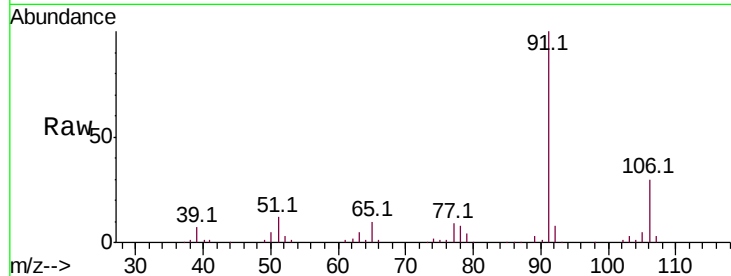
106 30.4 24.1 36.1

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Abundance Ion 91.00 (90.70 to 91.70): VU028495.D (-2497) (-)

Ion 106.00 (105.70 to 106.70): VU028495.D (-2497) (-)

9.25

80000

60000

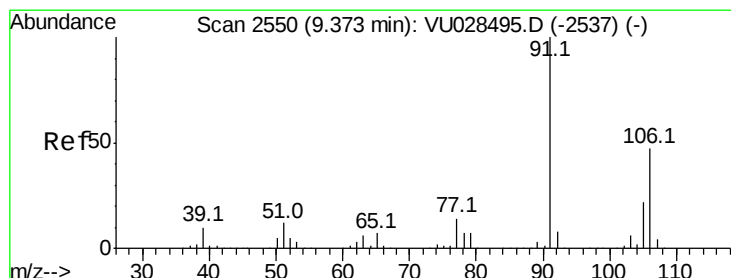
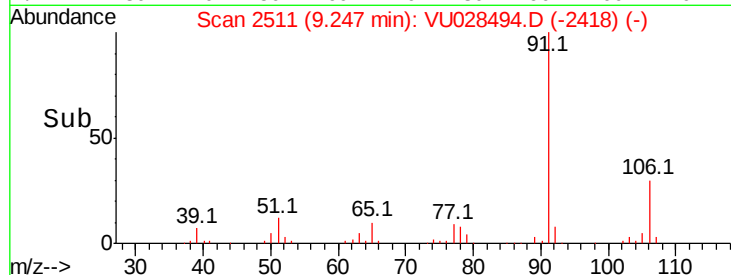
40000

20000

0

9.20 9.25 9.30

Time-->



#68

m/p-Xylenes

Concen: 40.433 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028494.D

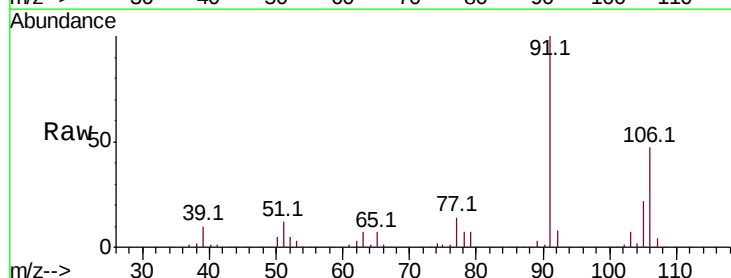
Acq: 06 Dec 2018 12:10

Tgt Ion: 106 Resp: 97469

Ion Ratio Lower Upper

106 100

91 209.2 167.4 251.0



Abundance Ion 106.00 (105.70 to 106.70): VU028495.D (-2537) (-)

Ion 91.00 (90.70 to 91.70): VU028495.D (-2537) (-)

9.37

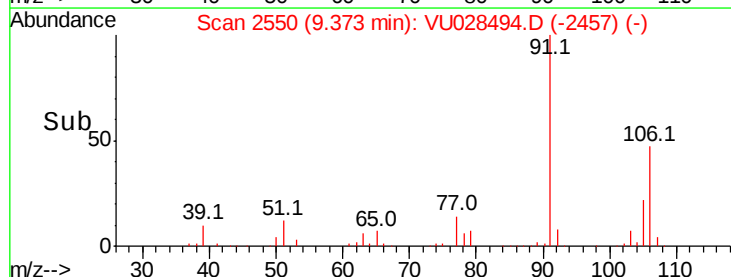
100000

50000

0

9.30 9.40 9.50

Time-->





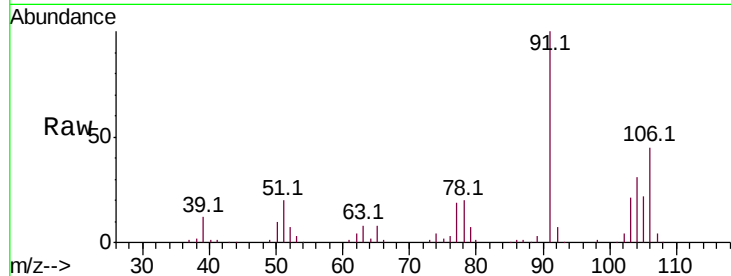
#69
o-Xylene
Concen: 20.045 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

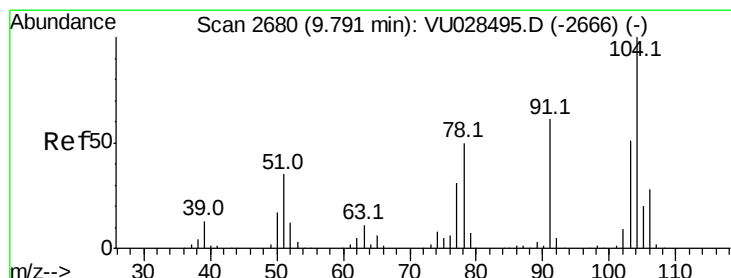
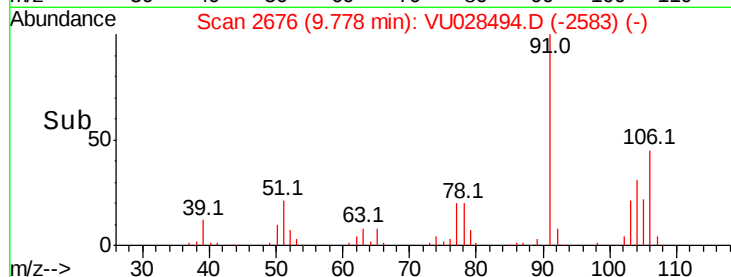
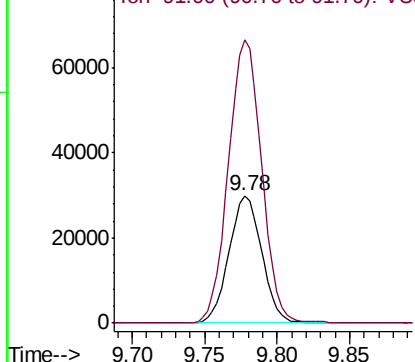
Tot Ion:106 Resp: 46958
Ion Ratio Lower Upper
106 100
91 225.7 111.3 334.0

Manual Integrations
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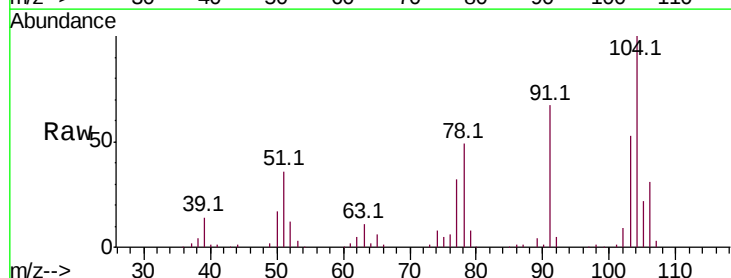


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

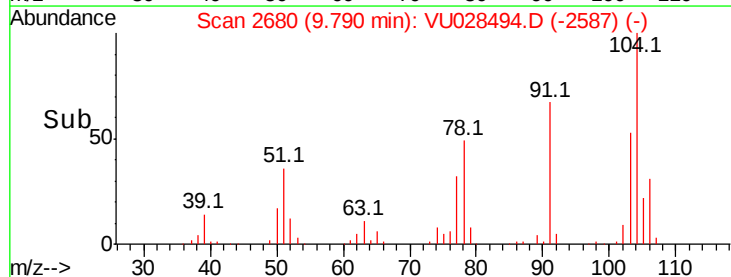
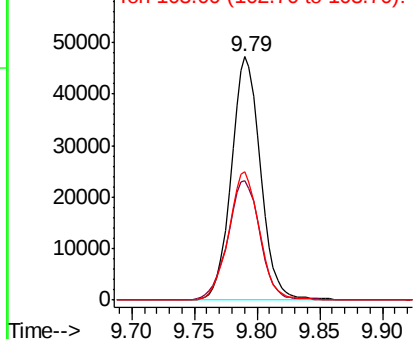


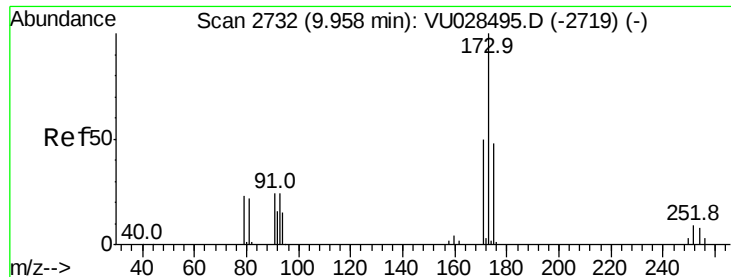
#70
Styrene
Concen: 19.737 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion:104 Resp: 76516
Ion Ratio Lower Upper
104 100
78 54.3 43.0 64.6
103 55.7 44.2 66.4



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: 20.021 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 19600

Ion Ratio Lower Upper

173 100

175 47.9 23.9 71.8

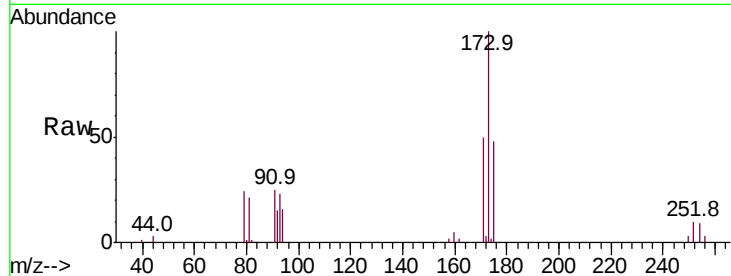
254 0.0 0.0 0.0

Manual Integrations

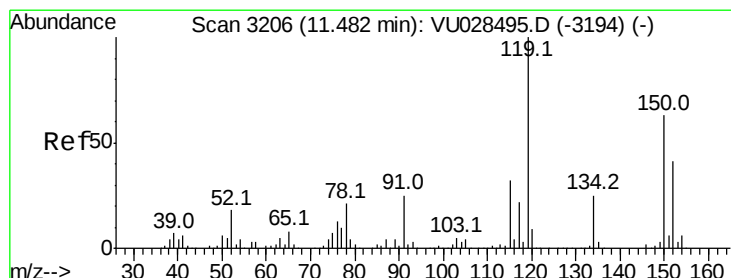
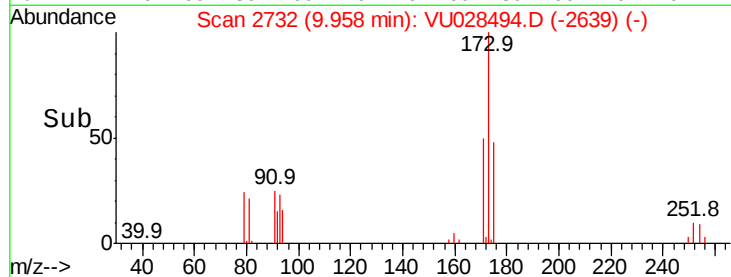
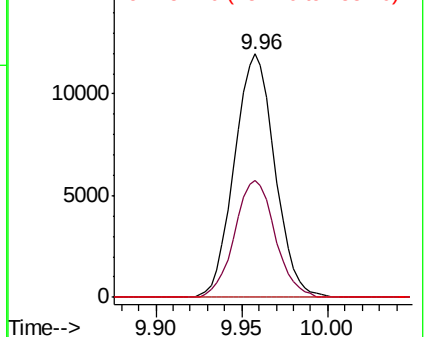
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

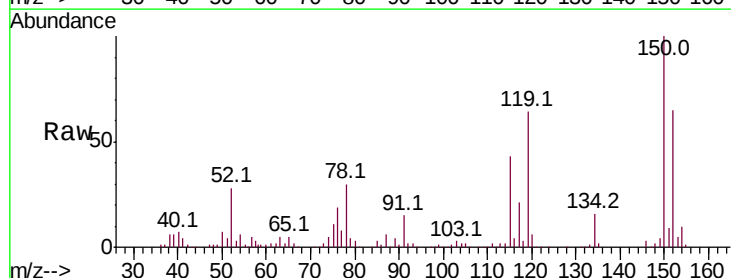
Tgt Ion:152 Resp: 81604

Ion Ratio Lower Upper

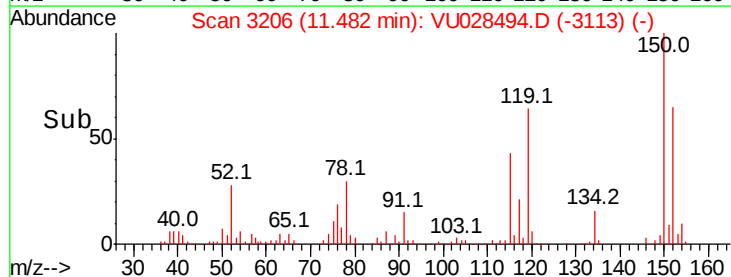
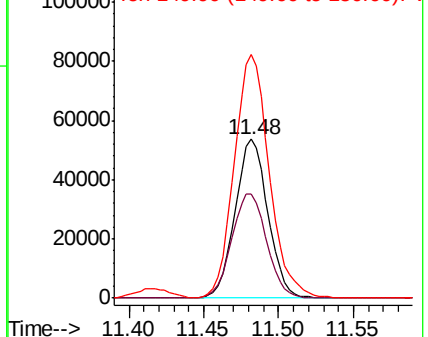
152 100

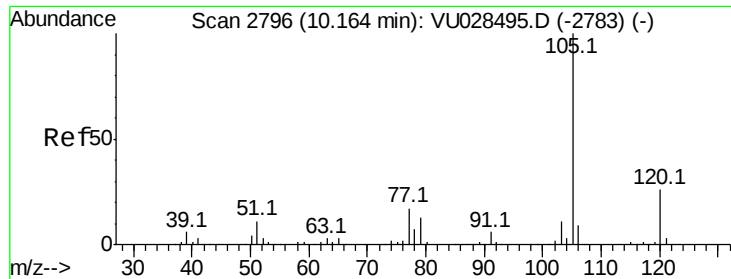
115 70.2 42.7 128.1

150 164.2 0.0 346.0



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: 20.208 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

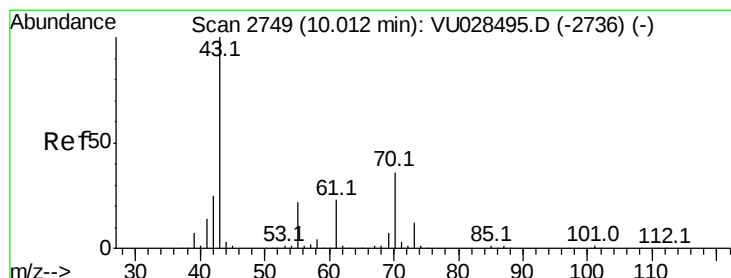
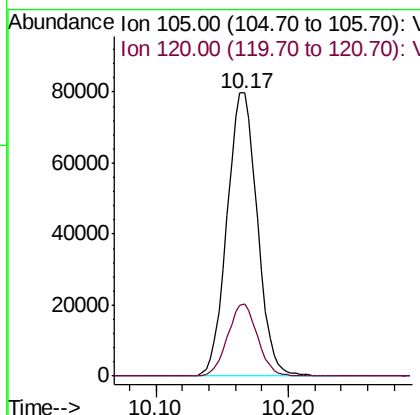
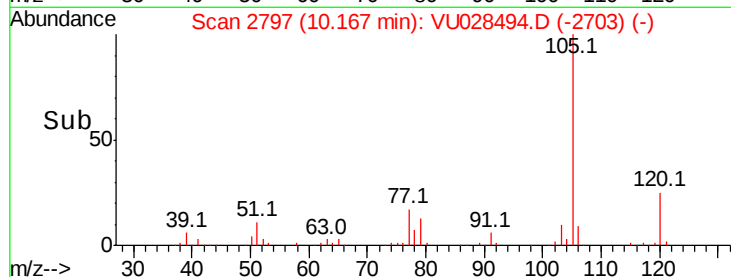
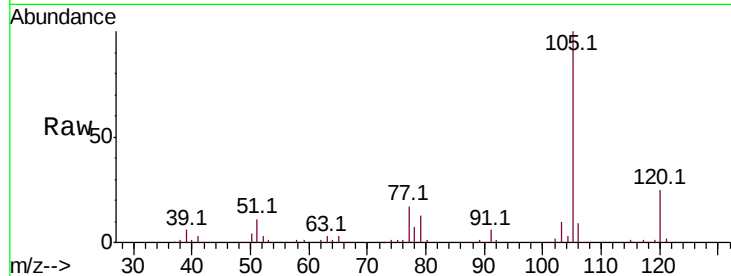
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion:105 Resp: 126537

Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.9	38.6

Manual Integrations
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12/7/2018 10:34:50 AM



#74

N-ethyl acetate

Concen: 19.455 ug/l

RT: 10.01 min Scan# 2749

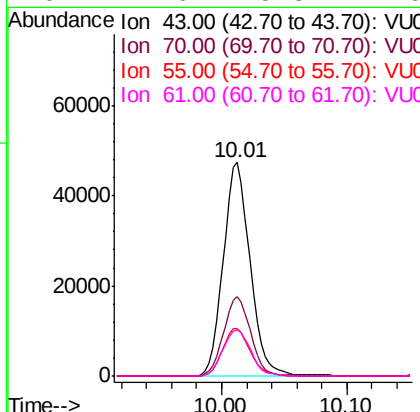
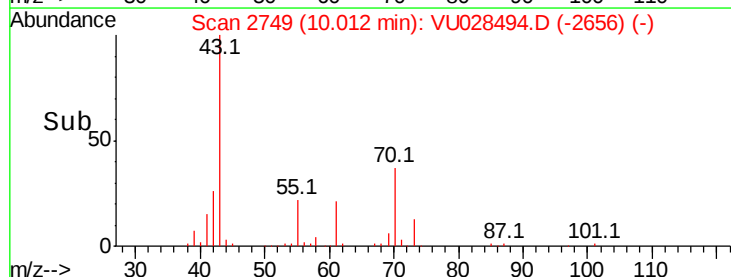
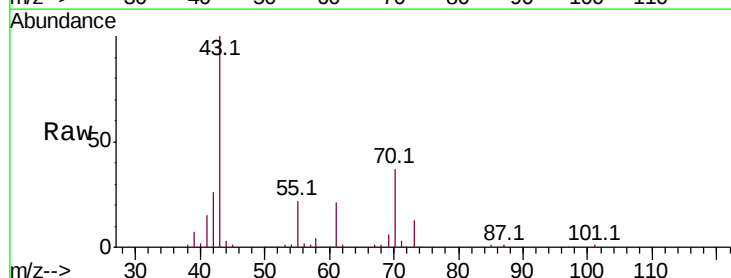
Delta R.T. -0.00 min

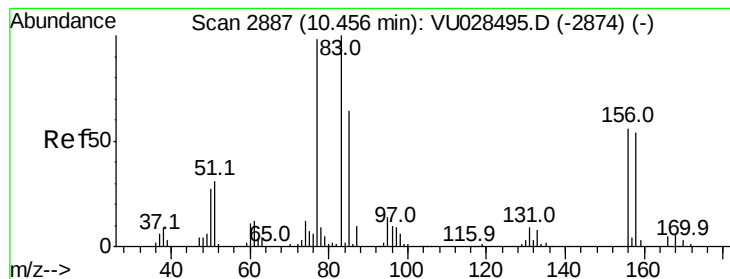
Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Tgt Ion: 43 Resp: 70269

Ion	Ratio	Lower	Upper
43	100		
70	37.2	29.3	43.9
55	22.7	18.0	27.0
61	22.6	18.3	27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 19.915 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 47904

Ion Ratio Lower Upper

83 100

131 8.3 4.2 12.4

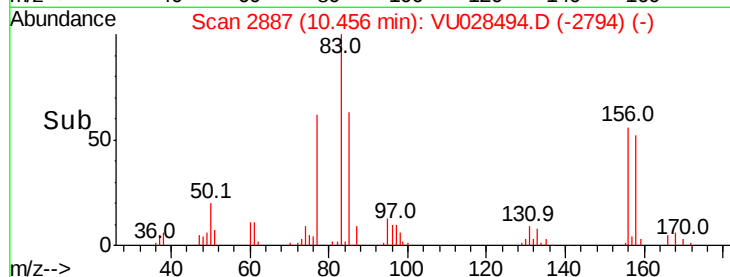
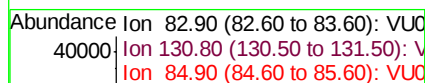
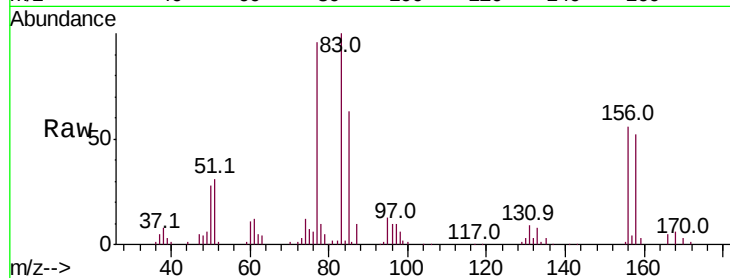
85 65.3 31.8 95.4

Manual Integrations

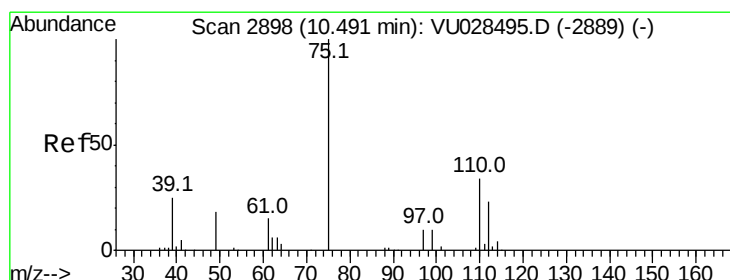
APPROVED

MMDadoda

12/7/2018 10:34:50 AM



Time-->



#76

1,2,3-Trichloropropane

Concen: 18.416 ug/l m

RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VU028494.D

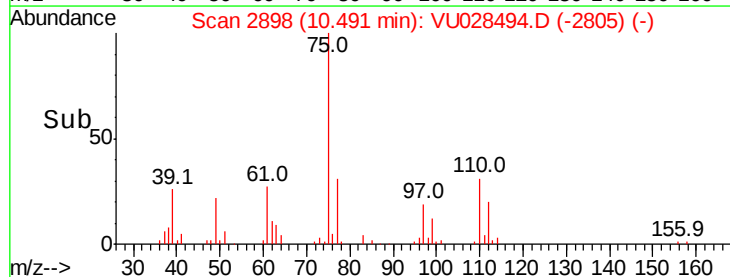
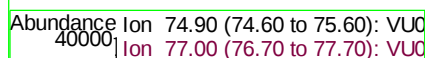
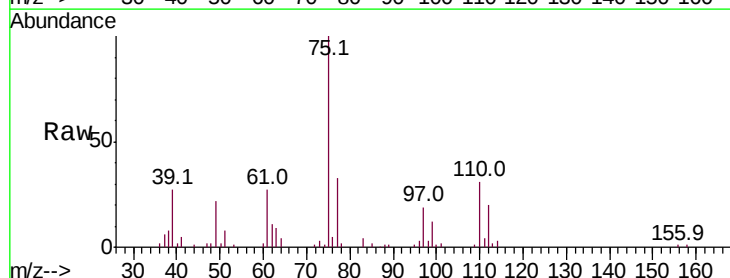
Acq: 06 Dec 2018 12:10

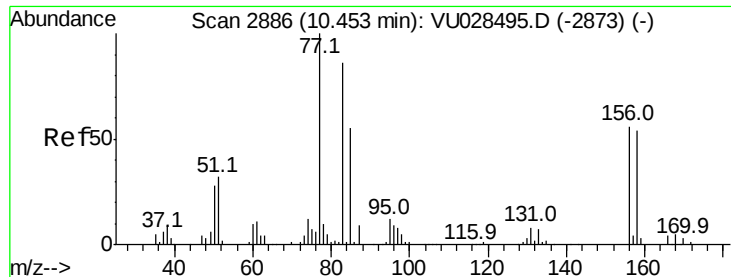
Tgt Ion: 75 Resp: 43356

Ion Ratio Lower Upper

75 100

77 42.1 20.8 62.4





#77

Bromobenzene

Concen: 19.904 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 29149

Ion Ratio Lower Upper

156 100

77 181.9 92.4 277.2

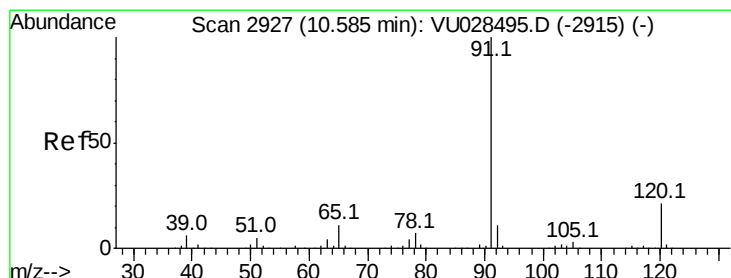
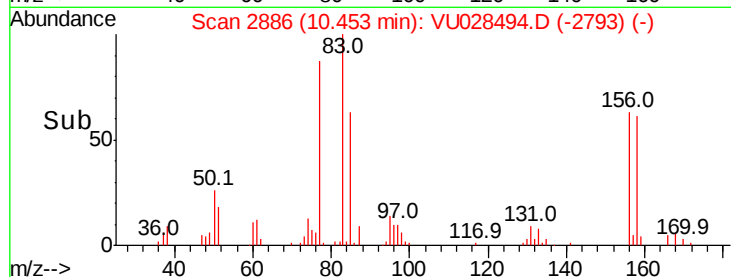
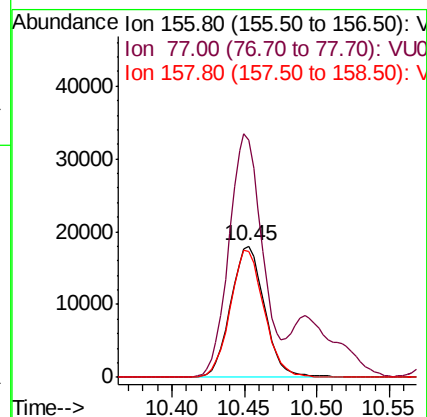
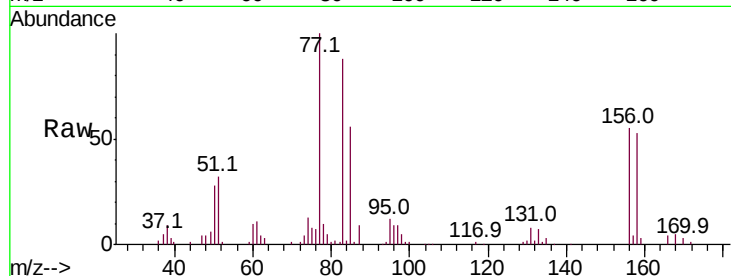
158 96.5 48.4 145.3

Manual Integrations

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#78

n-propylbenzene

Concen: 19.866 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. -0.00 min

Lab File: VU028494.D

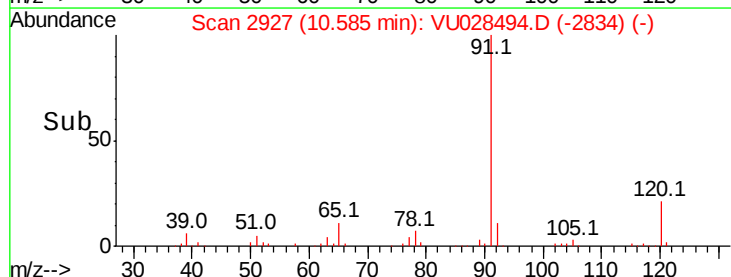
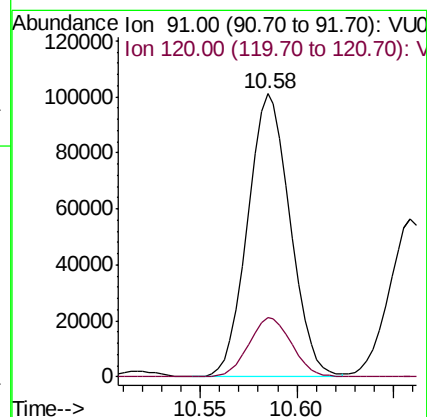
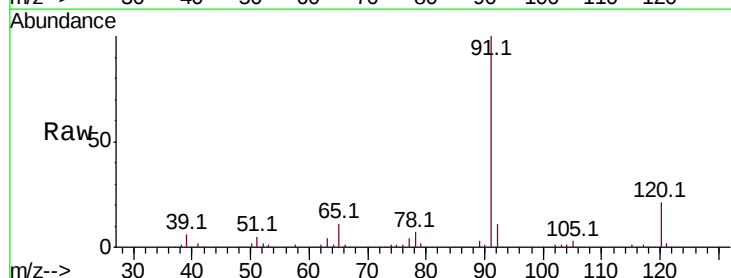
Acq: 06 Dec 2018 12:10

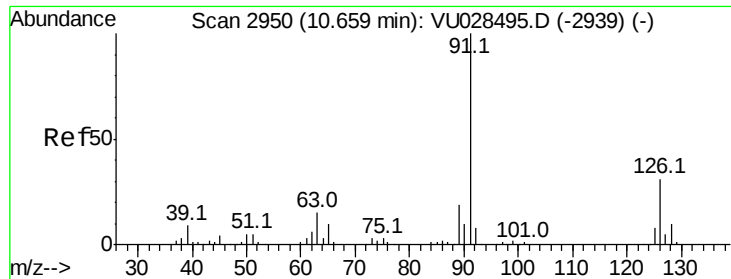
Tgt Ion: 91 Resp: 154574

Ion Ratio Lower Upper

91 100

120 21.0 10.6 31.8





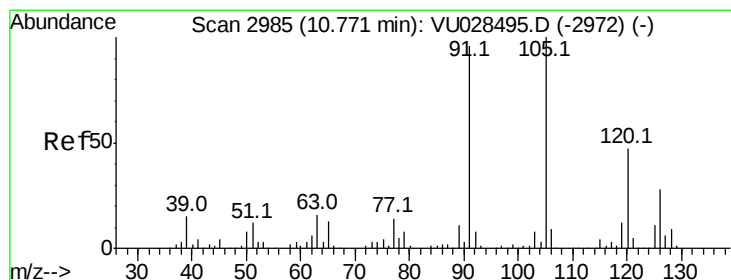
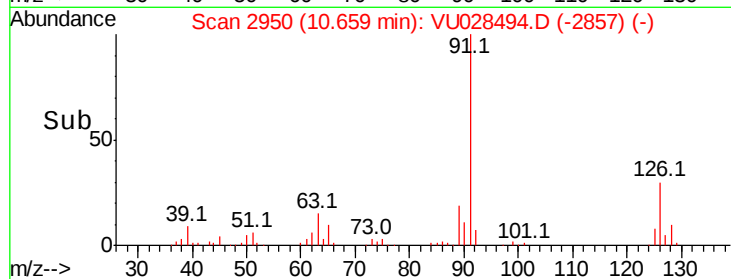
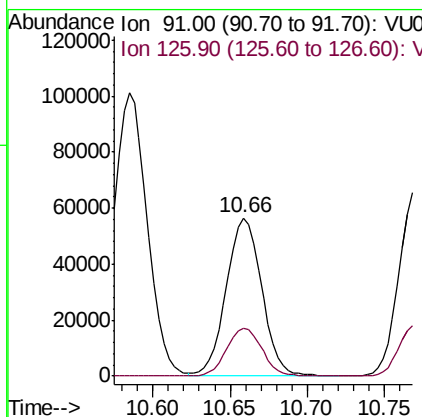
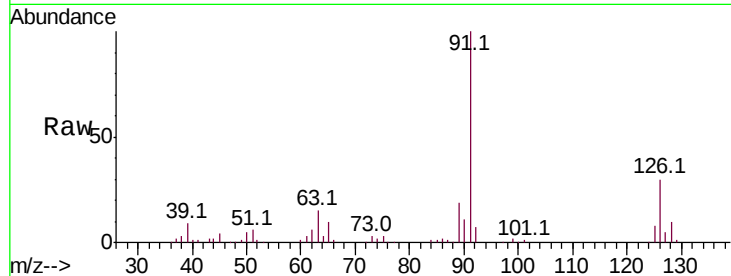
#79
2-Chlorotoluene
Concen: 20.170 ug/l
RT: 10.66 min Scan# 2950
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 90399
Ion Ratio Lower Upper
91 100
126 30.1 15.6 46.8

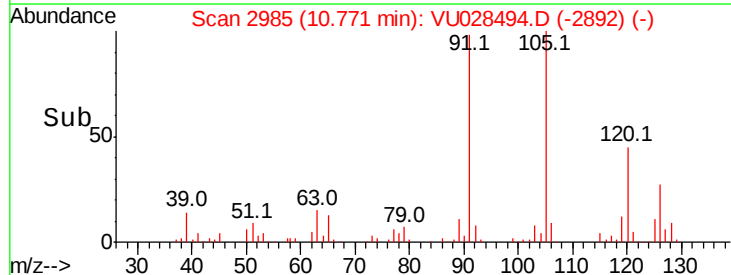
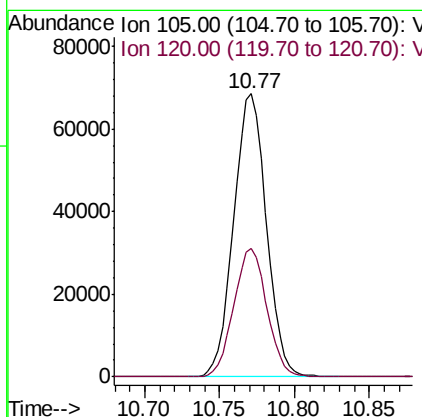
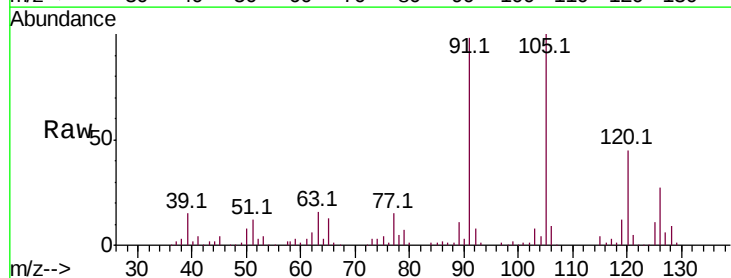
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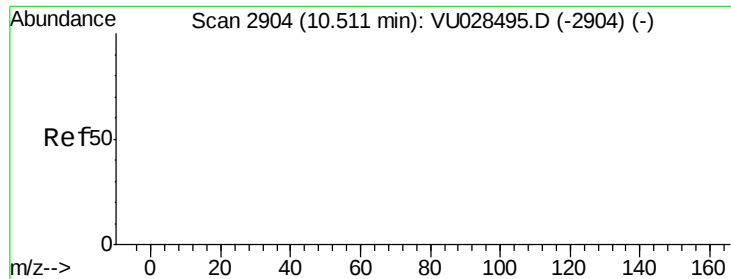
MMDadoda
12/7/2018 10:34:50 AM



#80
1,3,5-Trimethylbenzene
Concen: 20.147 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion: 105 Resp: 104430
Ion Ratio Lower Upper
105 100
120 45.8 23.7 71.1





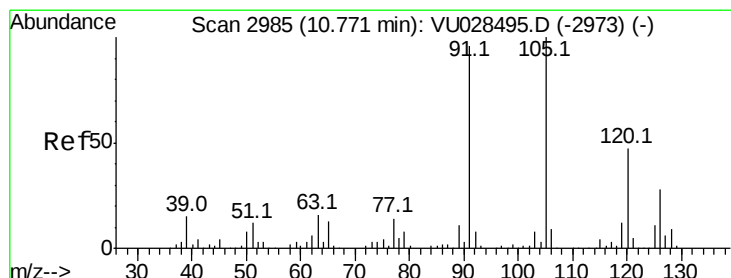
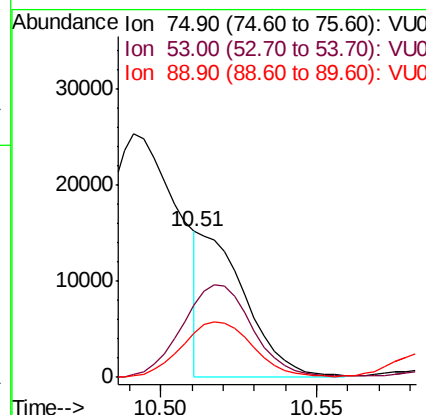
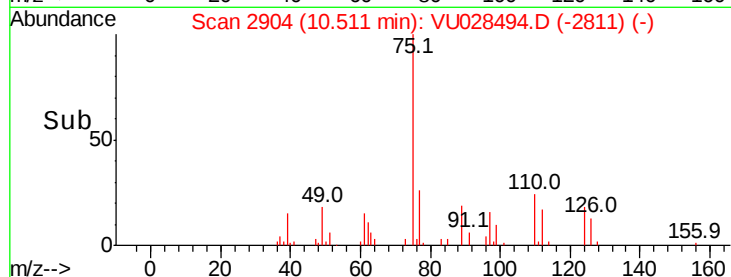
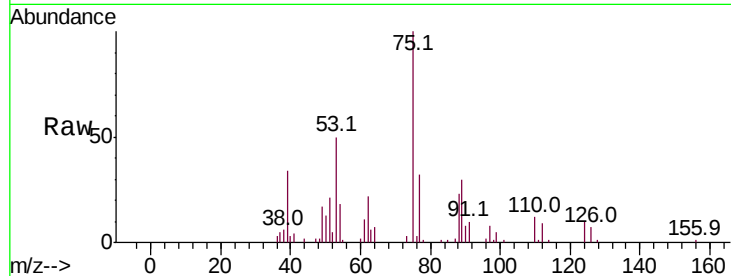
#81
trans-1,4-Dichloro-2-butene
Concen: 13.169 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

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

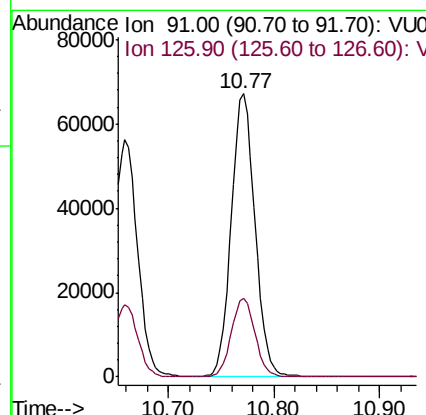
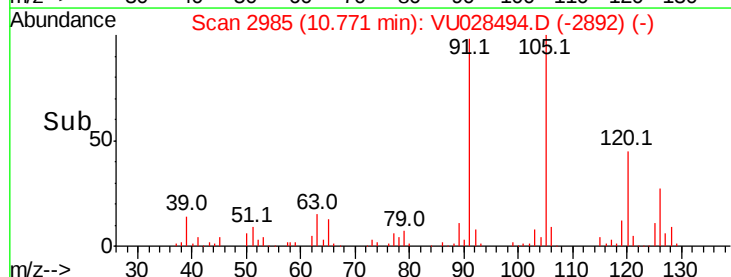
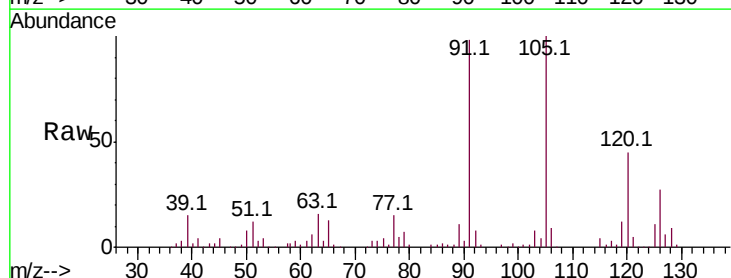
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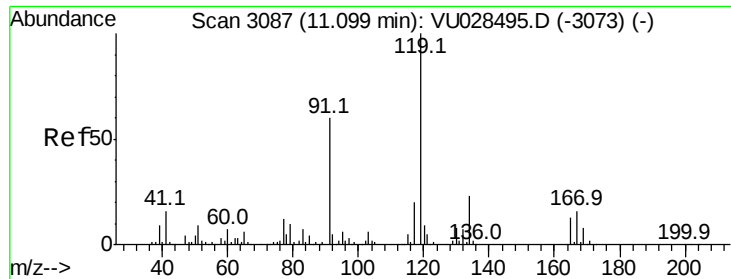
MMDadoda
12/7/2018 10:34:50 AM



#82
4-Chlorotoluene
Concen: 19.729 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.1	42.3





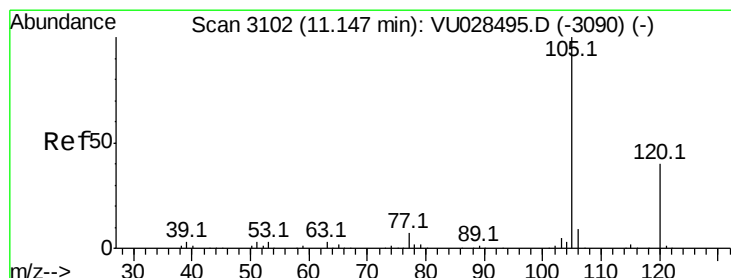
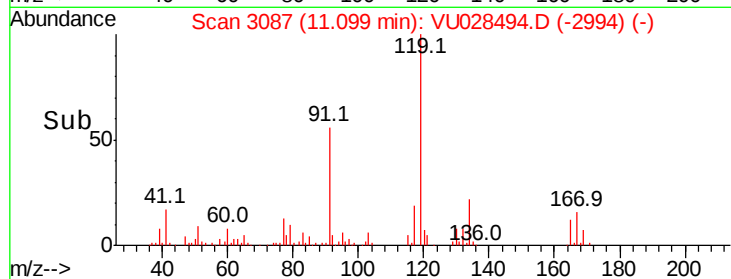
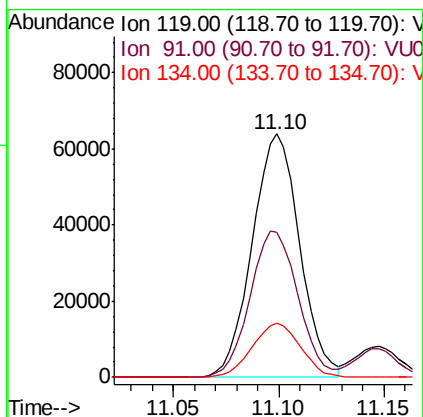
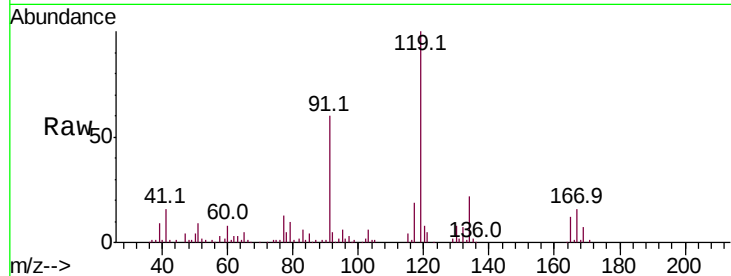
#83
tert-Butylbenzene
Concen: 20.022 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.7	30.3	91.0
134	22.5	11.2	33.5

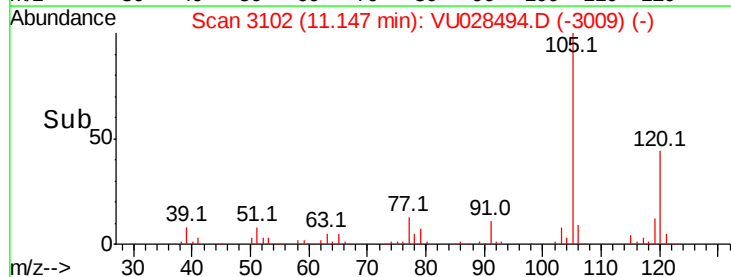
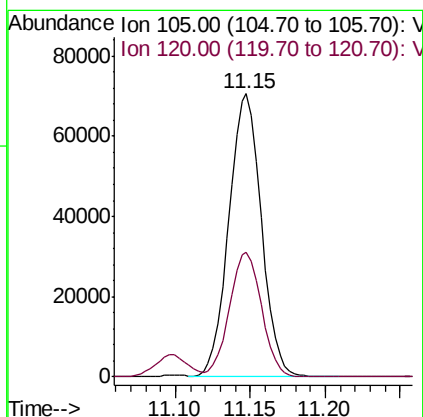
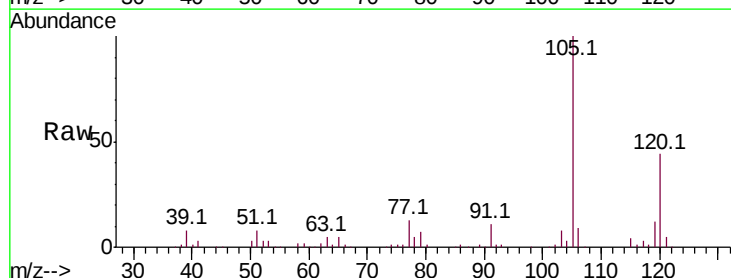
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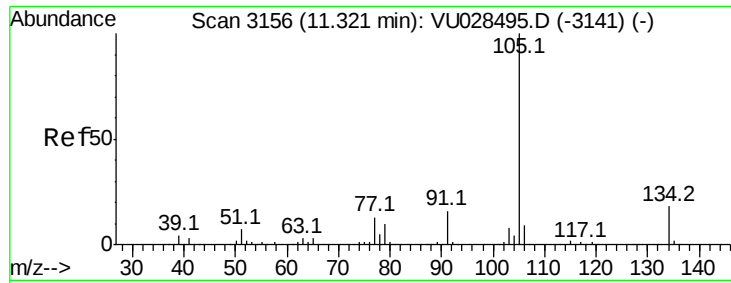
MMDadoda
12/7/2018 10:34:50 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.013 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.8	65.4





#85

sec-Butylbenzene

Concen: 20.050 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 128686

Ion Ratio Lower Upper

105 100

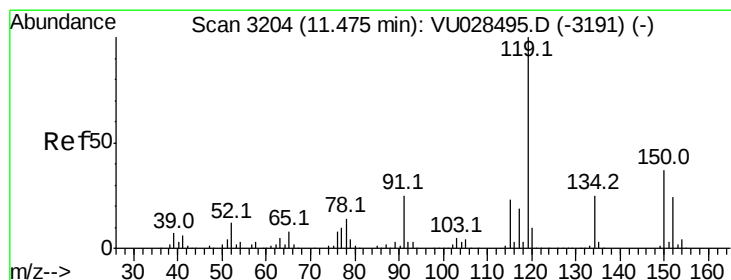
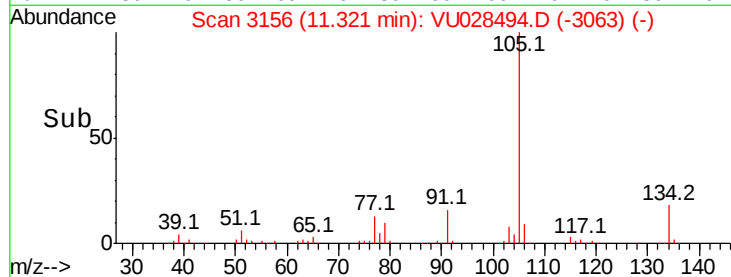
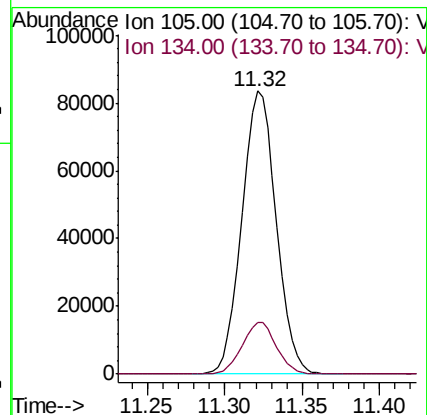
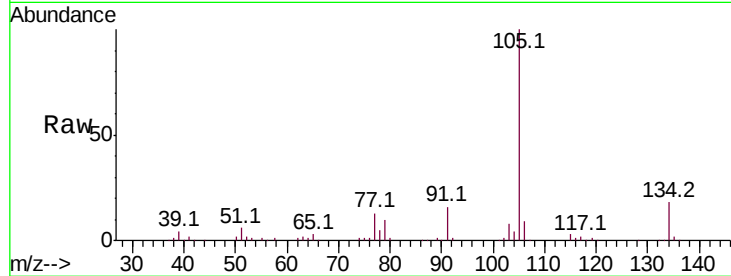
134 18.2 9.2 27.6

Manual Integrations

APPROVED

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12/7/2018 10:34:50 AM



#86

p-Isopropyltoluene

Concen: 19.681 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

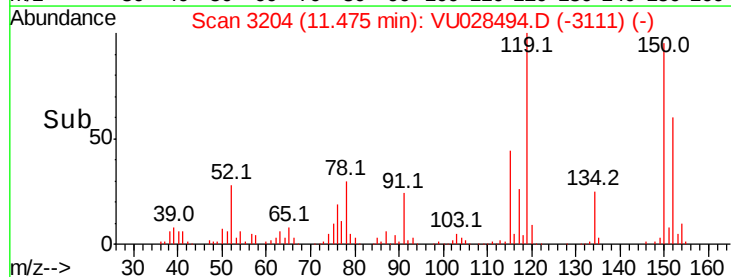
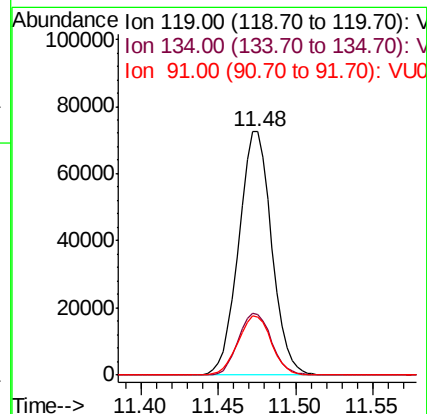
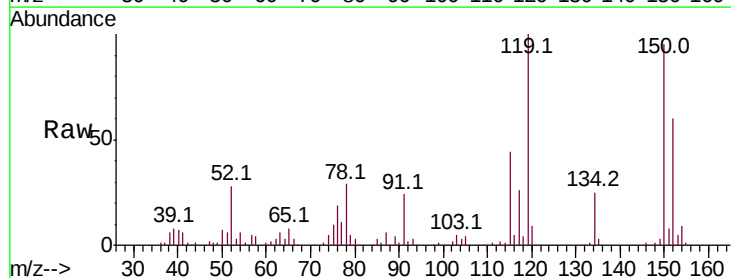
Tgt Ion:119 Resp: 107301

Ion Ratio Lower Upper

119 100

134 25.5 12.7 38.1

91 24.6 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 19.329 ug/l

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Instrument :

MSVOA_U

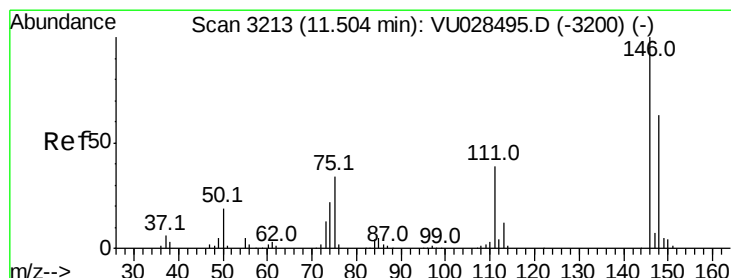
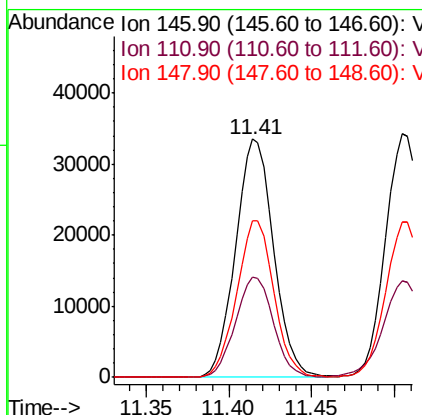
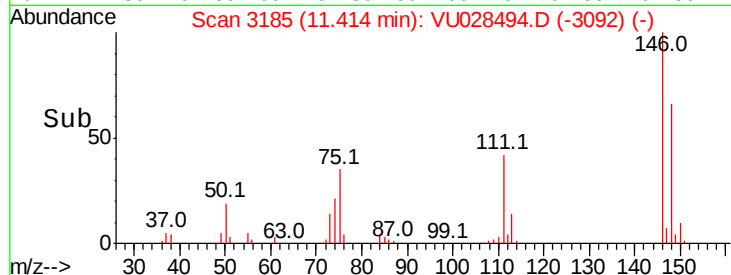
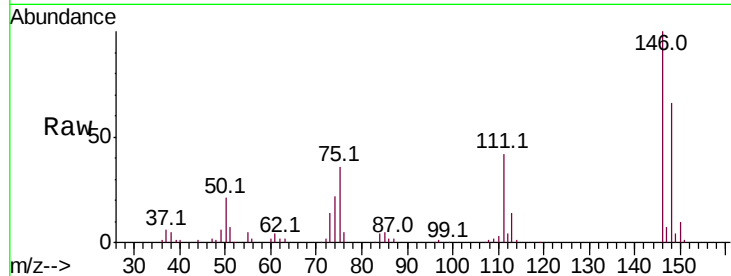
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	53451
Ion Ratio	Lower	Upper	
146	100		
111	41.7	20.7	62.1
148	64.1	31.9	95.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 18.898 ug/l

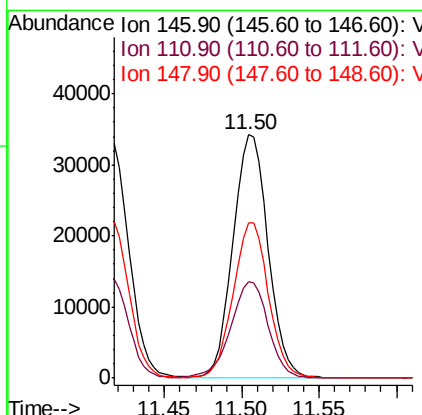
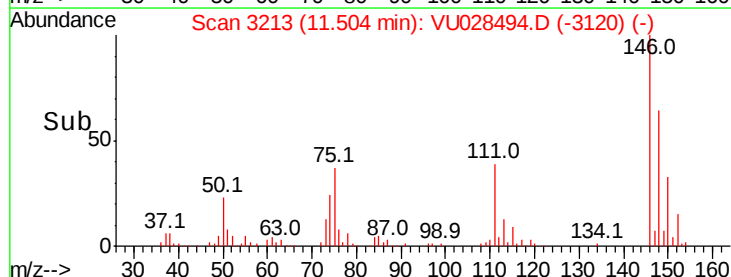
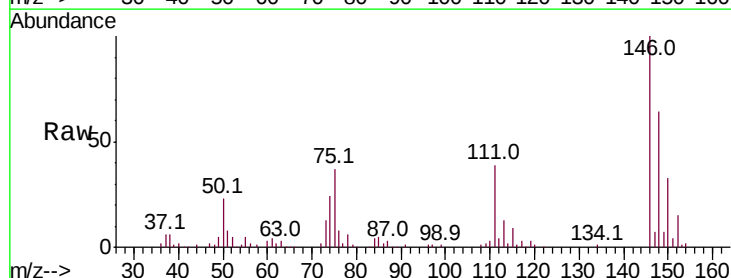
RT: 11.50 min Scan# 3213

Delta R.T. -0.00 min

Lab File: VU028494.D

Acq: 06 Dec 2018 12:10

Tgt Ion:	146	Resp:	54069
Ion Ratio	Lower	Upper	
146	100		
111	42.3	20.2	60.5
148	64.2	31.6	95.0





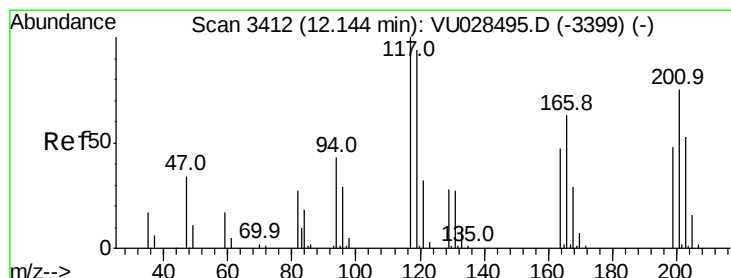
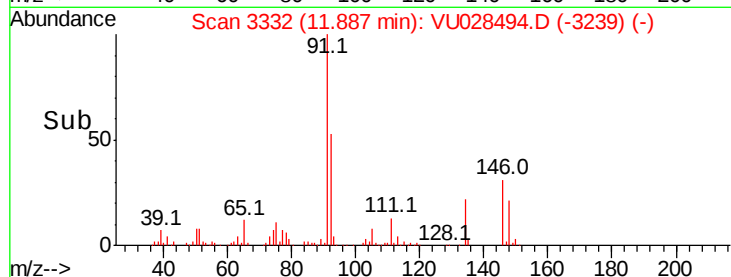
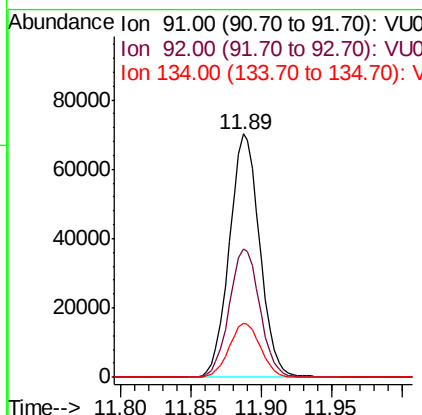
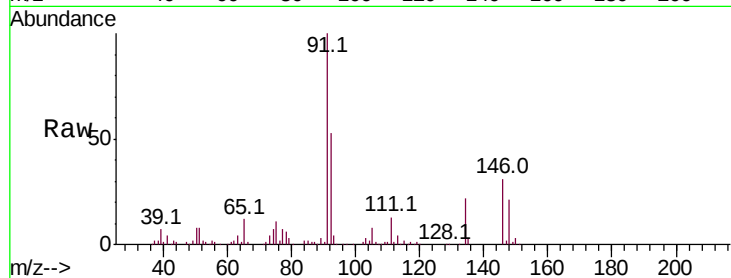
#89
n-Butylbenzene
Concen: 19.179 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.3	78.9
134	22.9	11.3	33.8

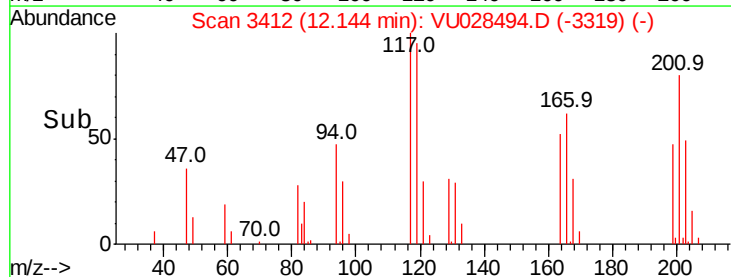
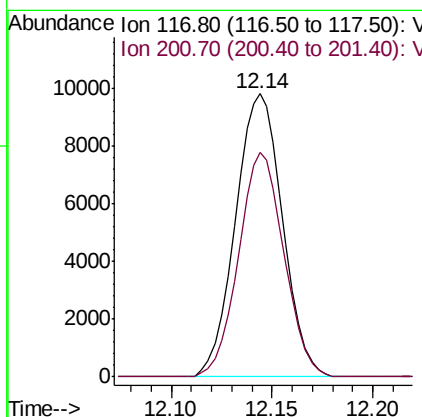
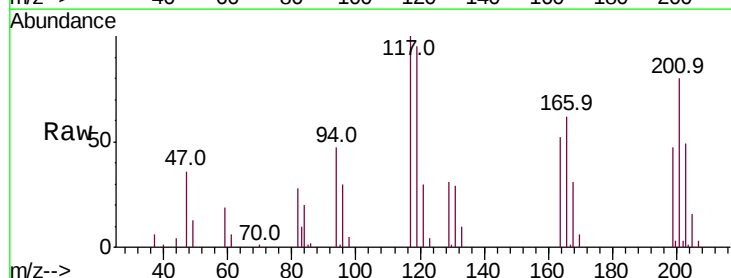
Manual Integrations
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#90
Hexachloroethane
Concen: 19.407 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	76.5	38.1	114.5





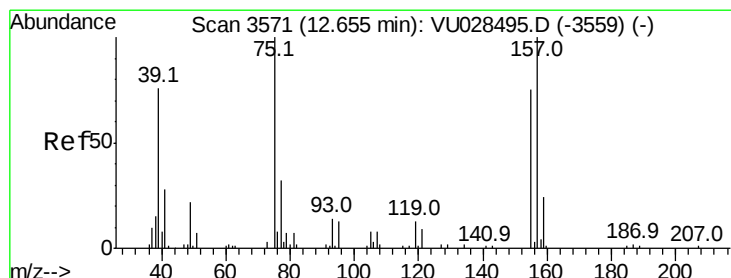
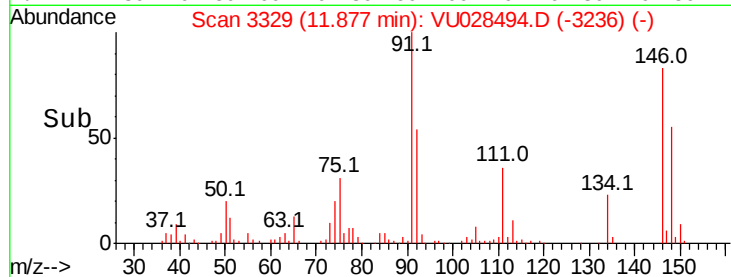
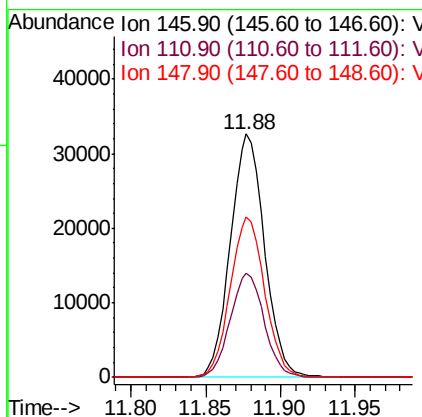
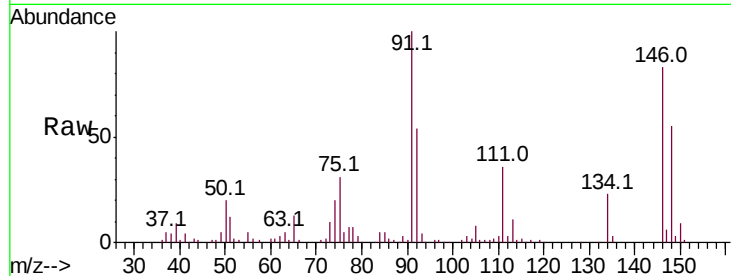
#91
 1,2-Dichlorobenzene
 Concen: 18.752 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.1	63.4
148	66.4	31.4	94.2

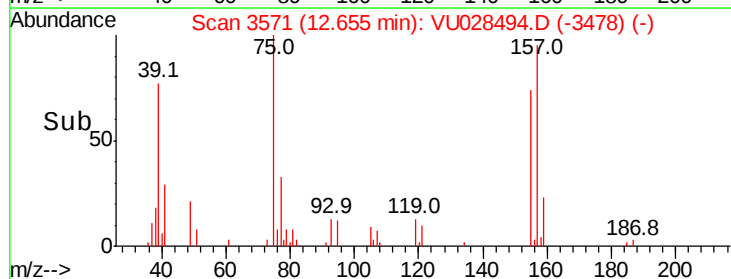
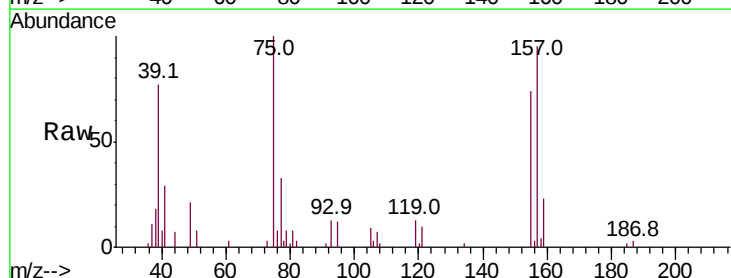
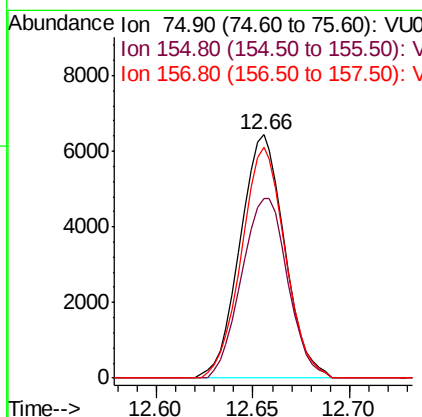
Manual Integrations
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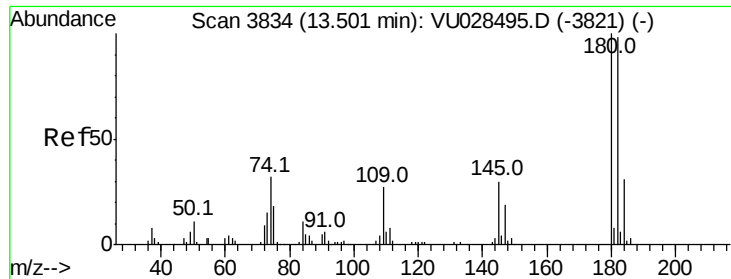
MMDadoda
 12/7/2018 10:34:50 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.811 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.6	38.1	114.5
157	93.0	48.7	146.1





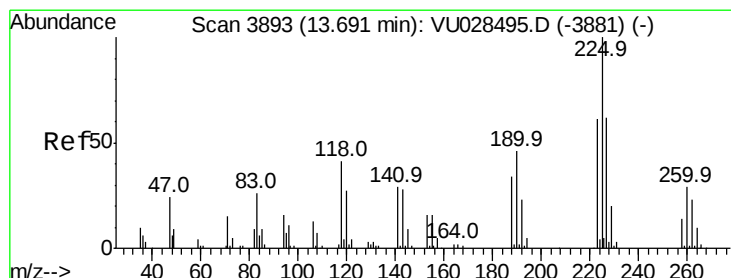
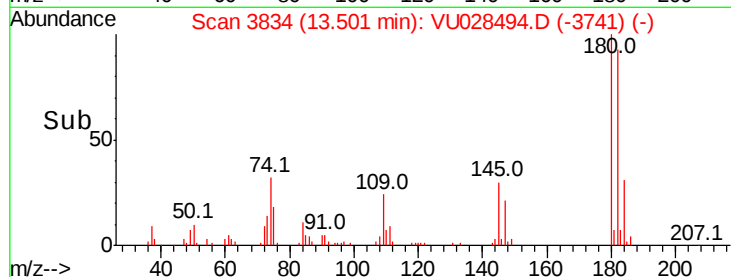
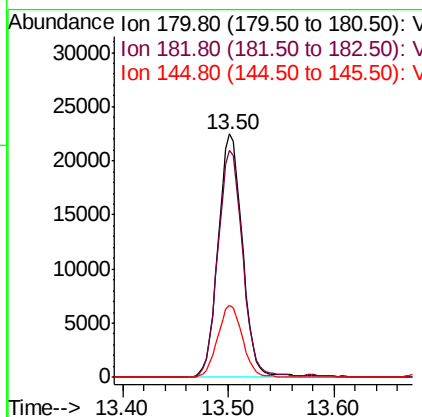
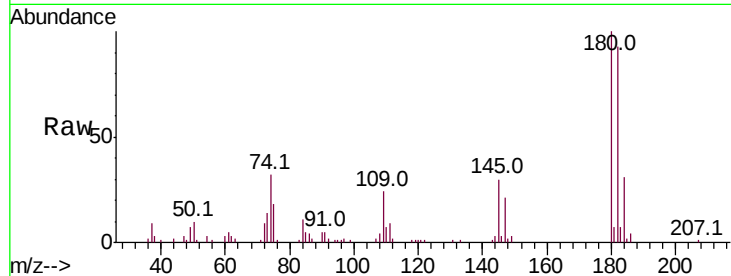
#93
 1,2,4-Trichlorobenzene
 Concen: 18.098 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.9	47.9	143.8	
145	30.2	15.0	45.1	

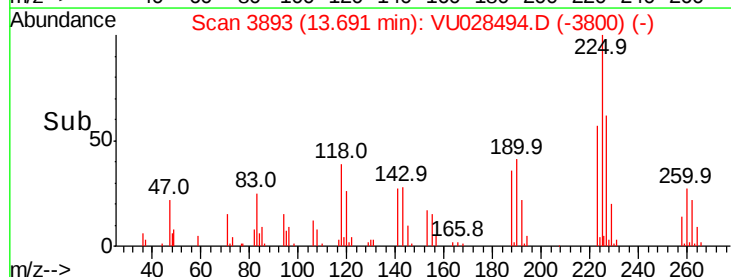
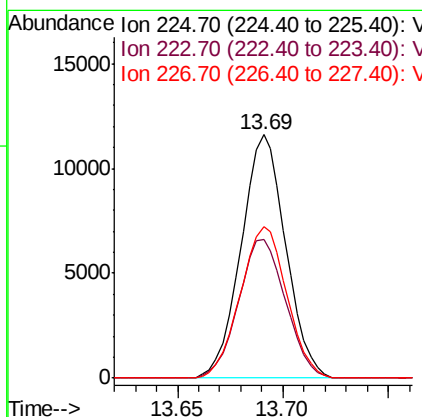
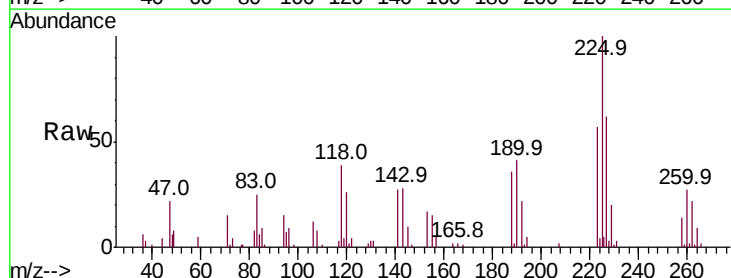
Manual Integrations
 APPROVED

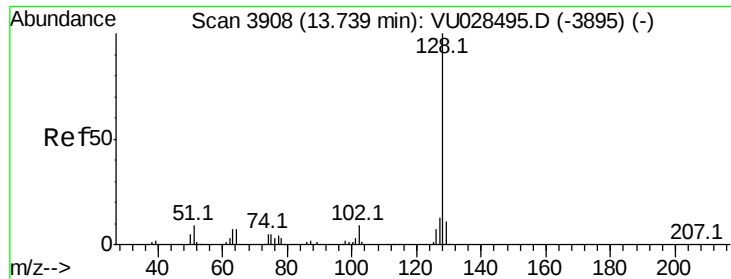
MMDadoda
 12/7/2018 10:34:50 AM



#94
 Hexachlorobutadiene
 Concen: 18.781 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028494.D
 Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	60.3	30.4	91.2	
227	65.0	30.7	92.1	





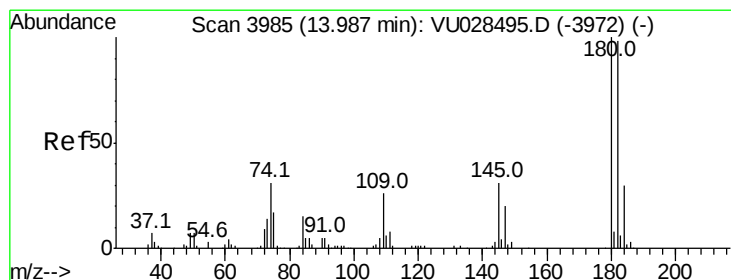
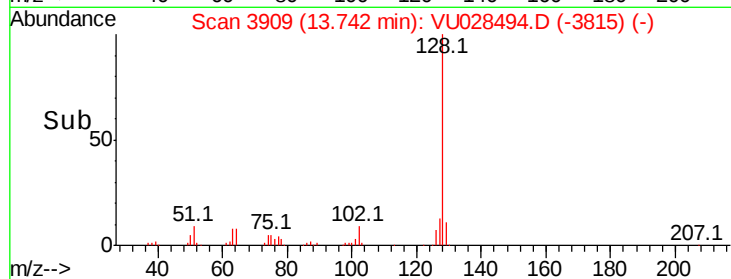
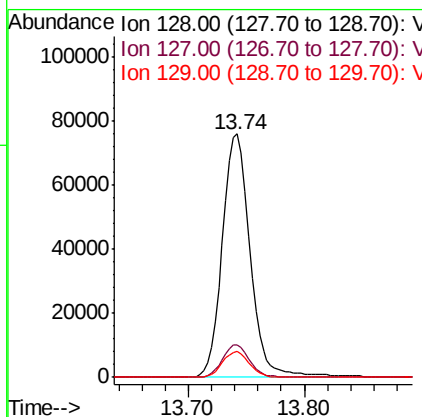
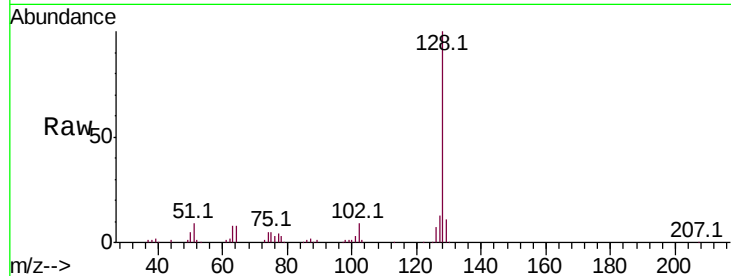
#95
Naphthalene
Concen: 18.961 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:34:50 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.697 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. -0.00 min
Lab File: VU028494.D
Acq: 06 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	48.2	144.6
145	30.2	15.8	47.3

