

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082819\
 Data File : VU033975.D
 Acq On : 27 Aug 2019 15:54
 Operator : JC/SP
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 8/28/2019 9:57:50 AM

Quant Time: Aug 28 02:20:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 28 01:57:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	357952	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	529765	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	490222	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	265279	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	196253	39.26	ug/l	0.00
Spiked Amount			Recovery	=	78.52%	
35) Dibromofluoromethane	4.86	113	177651	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	7.55	98	673050	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
62) 4-Bromofluorobenzene	10.29	95	235984	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	177814	43.819	ug/l	100
3) Chloromethane	1.32	50	162965	33.557	ug/l	100
4) Vinyl Chloride	1.40	62	167938	31.870	ug/l	100
5) Bromomethane	1.62	94	106193	36.790	ug/l	100
6) Chloroethane	1.69	64	99069	29.896	ug/l	100
7) Trichlorofluoromethane	1.87	101	231399	36.107	ug/l	100
8) Diethyl Ether	2.09	74	87154	32.092	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.27	101	153861	40.866	ug/l	100
10) Methyl Iodide	2.40	142	231659	55.215	ug/l	100
11) Tert butyl alcohol	2.87	59	242363	230.313	ug/l	100
12) 1,1-Dichloroethene	2.27	96	155330	40.204	ug/l	100
13) Acrolein	2.19	56	75590	132.414	ug/l	100
14) Allyl chloride	2.58	41	274349	39.430	ug/l	100
15) Acrylonitrile	2.93	53	518149	192.571	ug/l	100
16) Acetone	2.33	43	463735	159.914	ug/l	100
17) Carbon Disulfide	2.46	76	482084	37.992	ug/l	100
18) Methyl Acetate	2.61	43	228052	35.189	ug/l	100
19) Methyl tert-butyl Ether	2.98	73	534801	43.443	ug/l	100
20) Methylene Chloride	2.68	84	189436	39.683	ug/l	100
21) trans-1,2-Dichloroethene	2.96	96	177183	41.664	ug/l	100
22) Diisopropyl ether	3.55	45	517859	39.386	ug/l	100
23) Vinyl Acetate	3.50	43	2259469	208.597	ug/l	100
24) 1,1-Dichloroethane	3.42	63	318604	39.071	ug/l	100
25) 2-Butanone	4.25	43	691268	184.724	ug/l	100
26) 2,2-Dichloropropane	4.20	77	265912	40.070	ug/l	100
27) cis-1,2-Dichloroethene	4.20	96	195549	42.743	ug/l	100
28) Bromochloromethane	4.52	49	149745	37.508	ug/l	100
29) Tetrahydrofuran	4.62	42	431950	191.510	ug/l	100
30) Chloroform	4.65	83	314204	38.610	ug/l	100
31) Cyclohexane	4.97	56	282064	39.561	ug/l	100
32) 1,1,1-Trichloroethane	4.89	97	274747	41.130	ug/l	100
36) 1,1-Dichloropropene	5.11	75	235510	44.026	ug/l	100
37) Ethyl Acetate	4.36	43	252906	40.703	ug/l	100
38) Carbon Tetrachloride	5.11	117	243158	45.131	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	289279	48.531	ug/l	100
40) Benzene	5.37	78	712808	44.799	ug/l	100
41) Methacrylonitrile	4.52	41	131643	42.229	ug/l	100
42) 1,2-Dichloroethane	5.38	62	242295	41.665	ug/l	100
43) Isopropyl Acetate	5.53	43	375891	41.362	ug/l	100
44) Trichloroethene	6.16	130	201106	47.855	ug/l	100
45) 1,2-Dichloropropane	6.41	63	191930	43.742	ug/l	100
46) Dibromomethane	6.54	93	129654	45.542	ug/l	100
47) Bromodichloromethane	6.74	83	248895	43.579	ug/l	100
48) Methyl methacrylate	6.60	41	178506	43.715	ug/l	100
49) 1,4-Dioxane	6.65	88	105625	1095.358	ug/l #	100
51) 4-Methyl-2-Pentanone	7.44	43	1264860	205.510	ug/l	100
52) Toluene	7.62	92	452966	48.740	ug/l	100
53) t-1,3-Dichloropropene	7.86	75	270476	45.718	ug/l	100
54) cis-1,3-Dichloropropene	7.25	75	304088	46.136	ug/l	100
55) 1,1,2-Trichloroethane	8.05	97	181042	44.426	ug/l	100
56) Ethyl methacrylate	8.00	69	276131	49.879	ug/l	100
57) 1,3-Dichloropropane	8.22	76	311222	44.175	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.11	63	545792	276.183	ug/l	100
59) 2-Hexanone	8.35	43	983232	209.487	ug/l	100
60) Dibromochloromethane	8.46	129	206805	48.079	ug/l	100
61) 1,2-Dibromoethane	8.57	107	197160	46.546	ug/l	100
64) Tetrachloroethene	8.21	164	198023	54.711	ug/l	100
65) Chlorobenzene	9.10	112	497794	49.196	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.19	131	187836	50.012	ug/l	100
67) Ethyl Benzene	9.23	91	850242	51.462	ug/l	100
68) m/p-Xylenes	9.36	106	664128	108.589	ug/l	100
69) o-Xylene	9.76	106	315795	53.984	ug/l	100
70) Styrene	9.77	104	552219	54.647	ug/l	100
71) Bromoform	9.94	173	163920	51.630	ug/l	100
73) Isopropylbenzene	10.15	105	854332	52.234	ug/l	100
74) N-amyl acetate	10.00	43	336110	48.937	ug/l	100
75) 1,1,2,2-Tetrachloroethane	10.44	83	288553	42.138	ug/l	100
76) 1,2,3-Trichloropropane	10.48	75	256904m	42.614	ug/l	
77) Bromobenzene	10.43	156	230430	52.203	ug/l	100
78) n-propylbenzene	10.57	91	974884	50.390	ug/l	100
79) 2-Chlorotoluene	10.64	91	569744	49.087	ug/l	100
80) 1,3,5-Trimethylbenzene	10.76	105	744394	53.196	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	96705m	43.893	ug/l	
82) 4-Chlorotoluene	10.76	91	666708	48.945	ug/l	100
83) tert-Butylbenzene	11.08	119	699049	53.350	ug/l	100
84) 1,2,4-Trimethylbenzene	11.13	105	740790	54.486	ug/l	100
85) sec-Butylbenzene	11.31	105	854066	52.174	ug/l	100
86) p-Isopropyltoluene	11.46	119	810816	54.345	ug/l	100
87) 1,3-Dichlorobenzene	11.40	146	413673	49.721	ug/l	100
88) 1,4-Dichlorobenzene	11.49	146	414103	48.198	ug/l	100
89) n-Butylbenzene	11.87	91	693121	52.072	ug/l	100
90) Hexachloroethane	12.12	117	128326	44.707	ug/l	100
91) 1,2-Dichlorobenzene	11.86	146	408622	51.191	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.64	75	65498	46.510	ug/l	100

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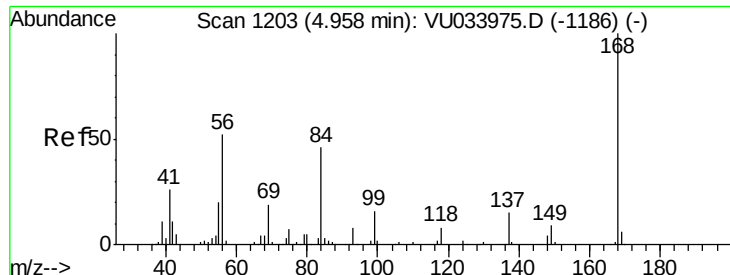
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	295407	61.301	ug/l	100
94) Hexachlorobutadiene	13.67	225	167820	55.293	ug/l	100
95) Naphthalene	13.73	128	837342	63.512	ug/l	100
96) 1,2,3-Trichlorobenzene	13.97	180	296517	61.214	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 357952

Ion Ratio Lower Upper

168 100

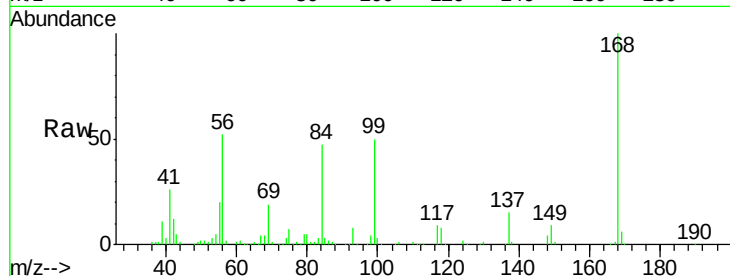
99 49.3 39.4 59.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU033975.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU033975.D (-1186) (-)

4.96

150000

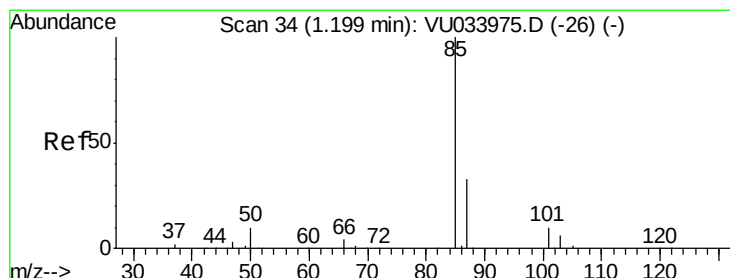
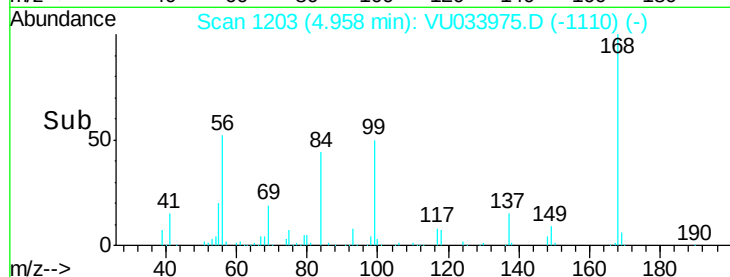
100000

50000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 43.819 ug/l

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033975.D

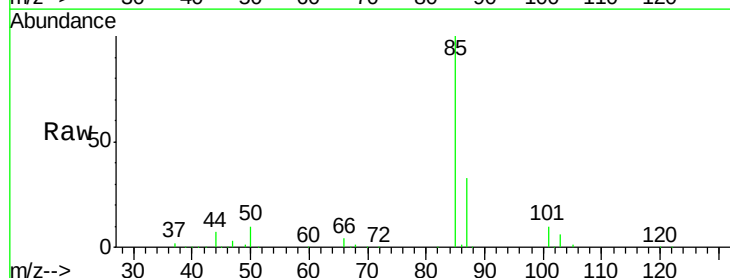
Acq: 27 Aug 2019 15:54

Tgt Ion: 85 Resp: 177814

Ion Ratio Lower Upper

85 100

87 32.8 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VU033975.D (-26) (-)

Ion 86.90 (86.60 to 87.60): VU033975.D (-26) (-)

1.20

200000

150000

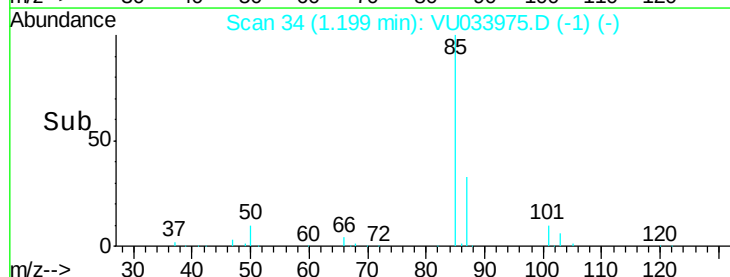
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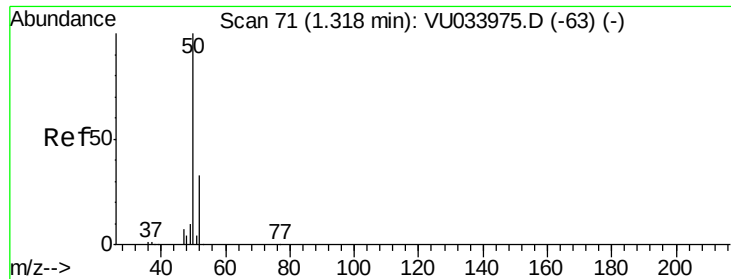
50000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 33.557 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 162965

Ion Ratio Lower Upper

50 100

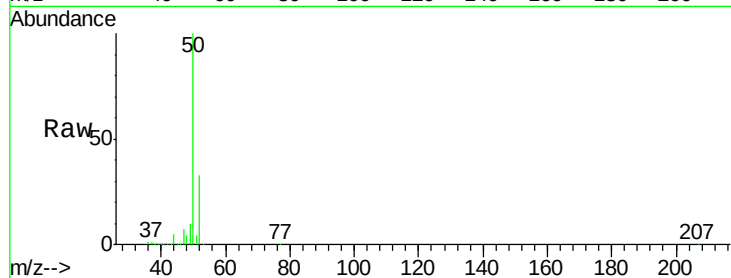
52 32.7 26.2 39.2

Manual Integrations

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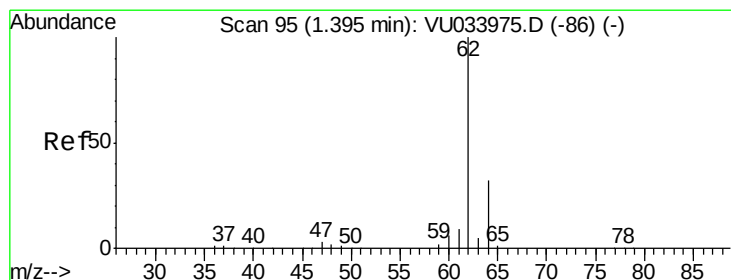
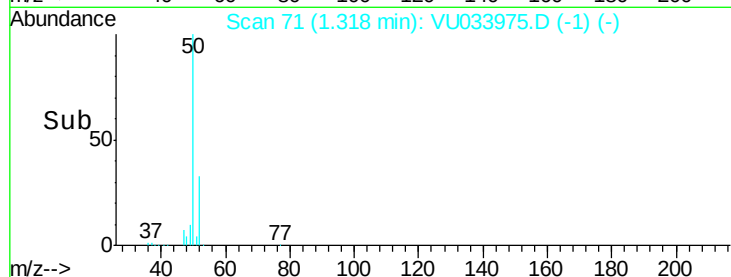
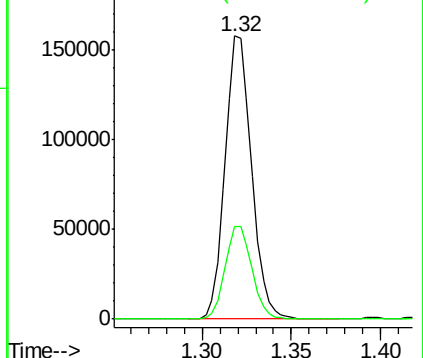
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 31.870 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033975.D

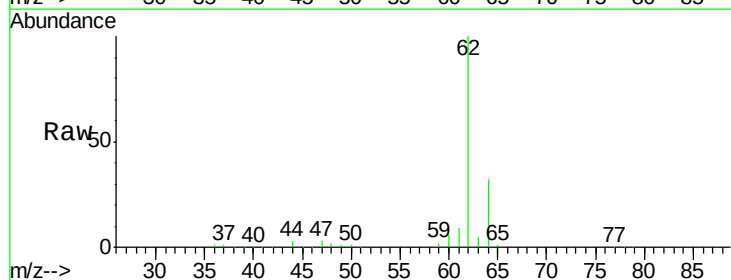
Acq: 27 Aug 2019 15:54

Tgt Ion: 62 Resp: 167938

Ion Ratio Lower Upper

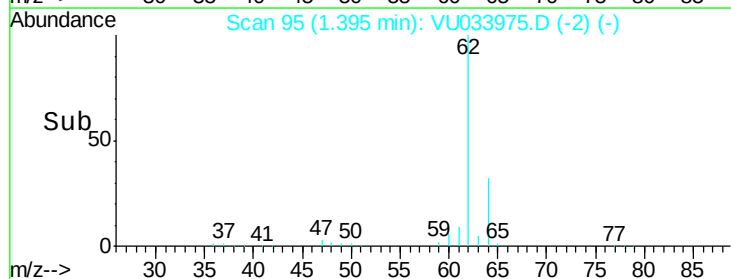
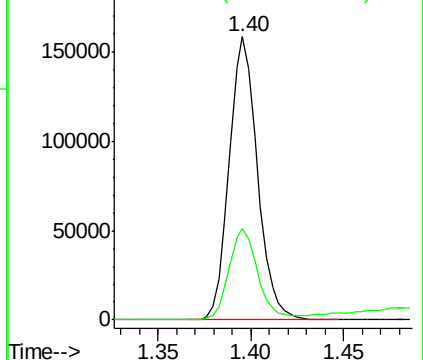
62 100

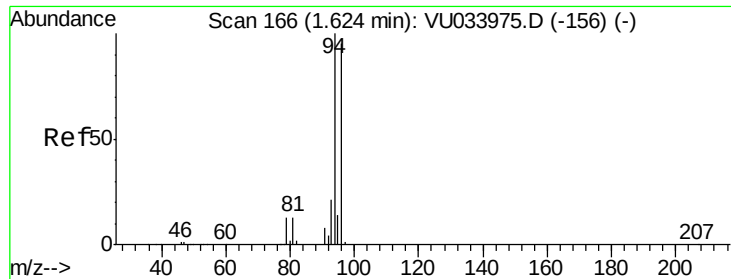
64 32.4 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 36.790 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 94 Resp: 106193

Ion Ratio Lower Upper

94 100

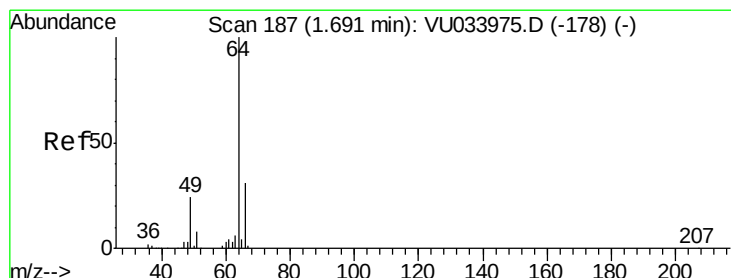
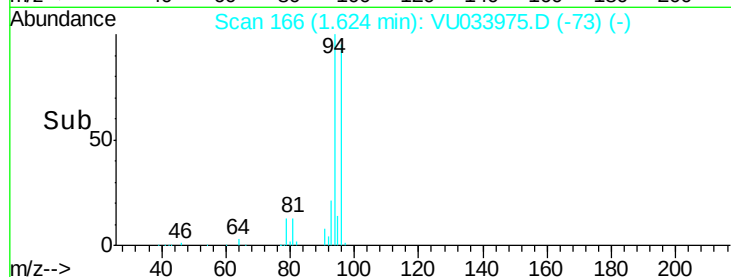
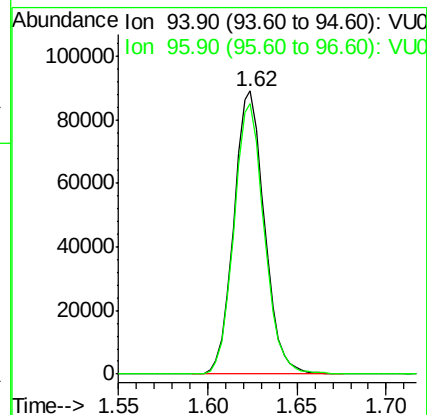
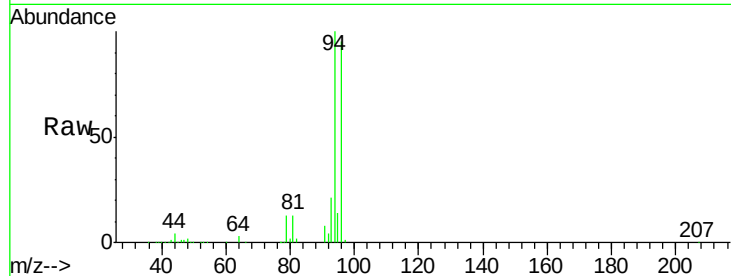
96 95.4 76.3 114.5

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#6

Chloroethane

Concen: 29.896 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033975.D

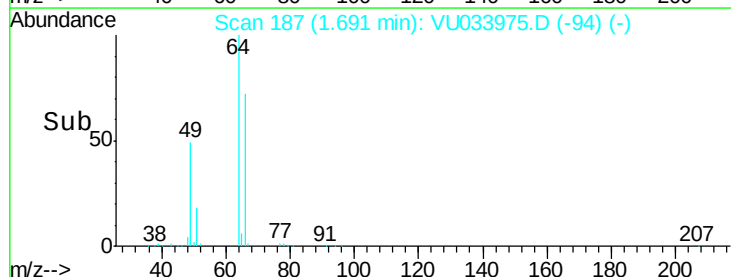
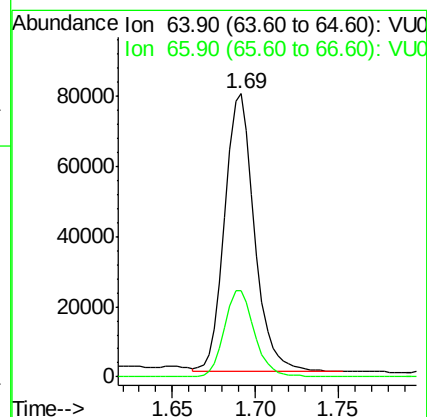
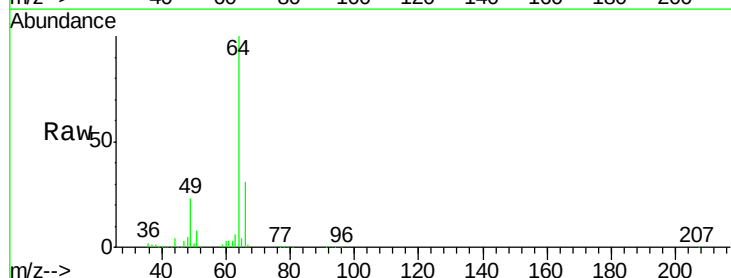
Acq: 27 Aug 2019 15:54

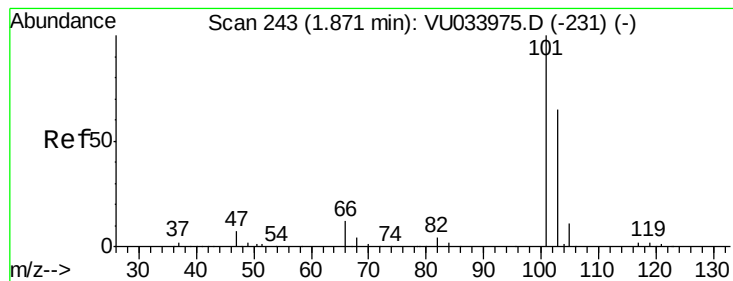
Tgt Ion: 64 Resp: 99069

Ion Ratio Lower Upper

64 100

66 31.1 24.9 37.3





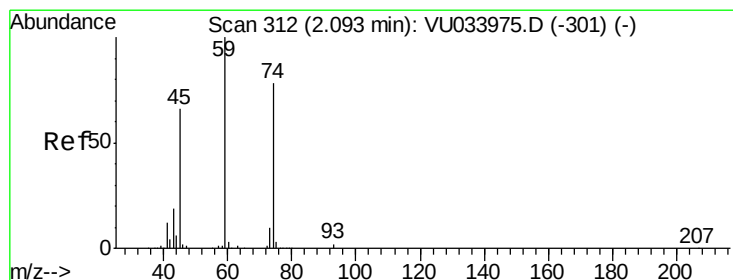
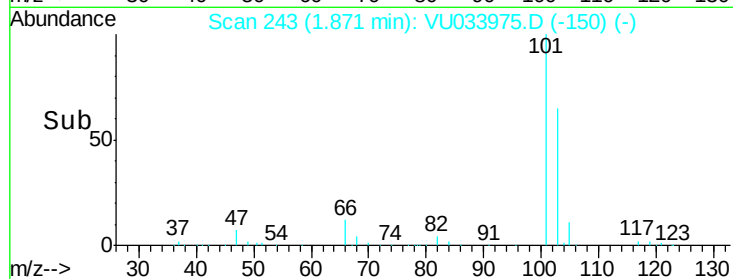
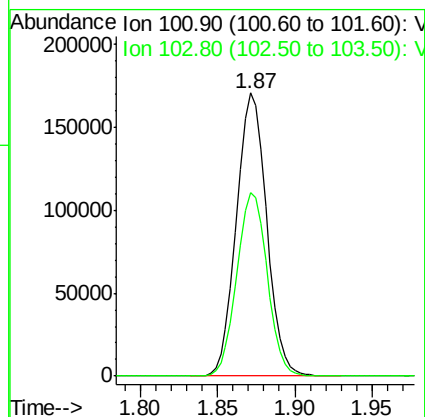
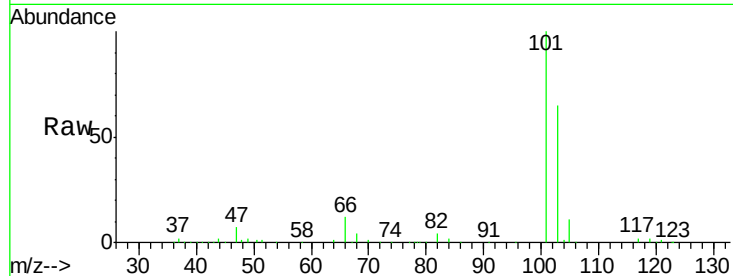
#7
 Trichlorofluoromethane
 Concen: 36.107 ug/l
 RT: 1.87 min Scan# 243
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.0	78.0

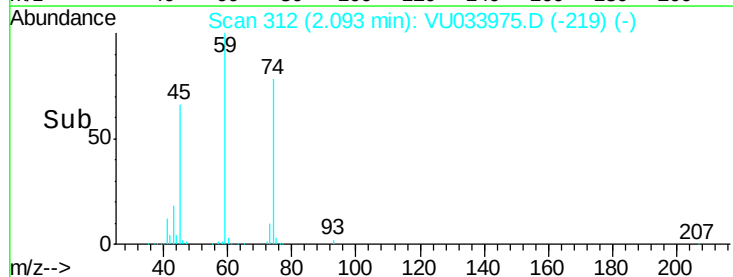
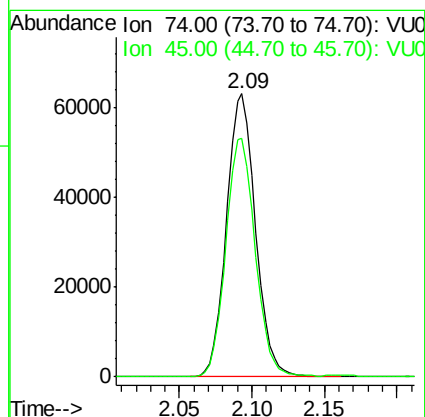
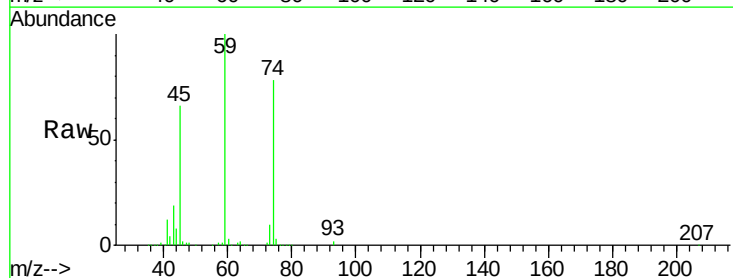
Manual Integrations
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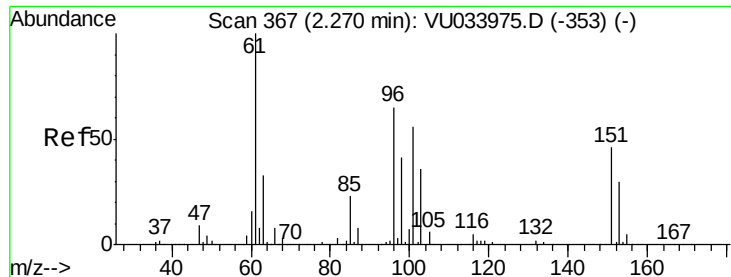
MMDadoda
 8/28/2019 9:57:50 AM



#8
 Diethyl Ether
 Concen: 32.092 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
74	100		
45	85.6	42.8	128.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 40.866 ug/l

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

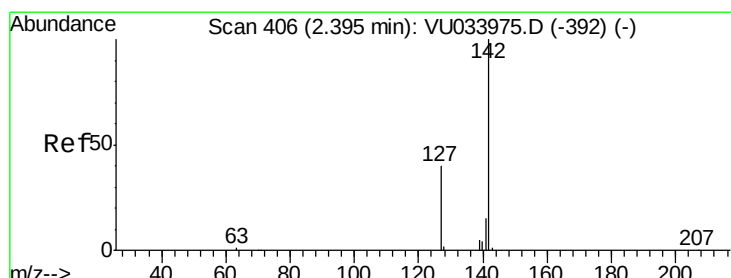
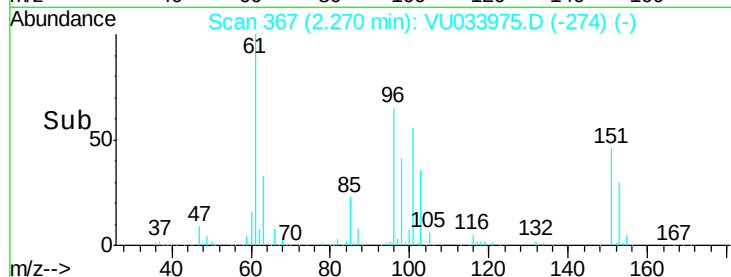
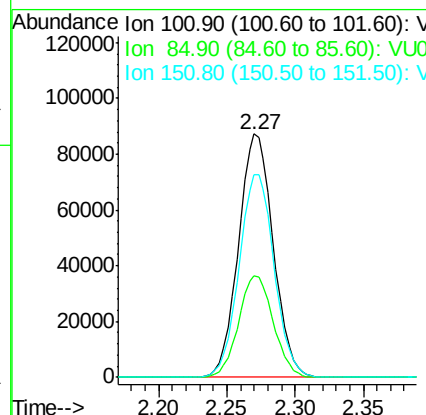
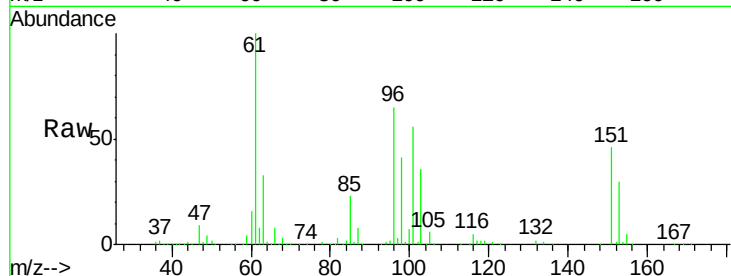
ClientSampleId :

VSTDICCC050

Tot Ion:	101	Resp:	153861
Ion Ratio	Lower	Upper	
101	100		
85	41.7	33.4	50.0
151	84.5	67.6	101.4

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#10

Methyl Iodide

Concen: 55.215 ug/l

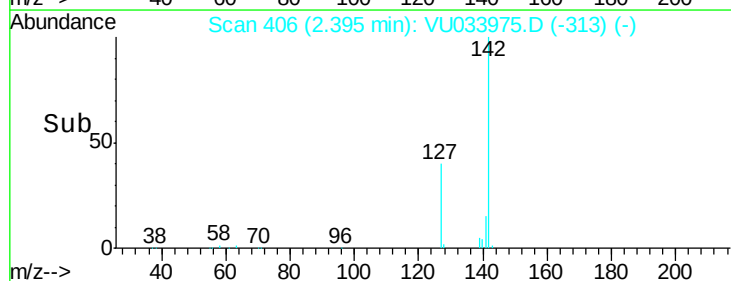
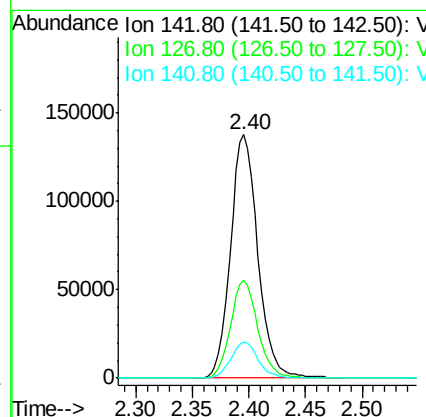
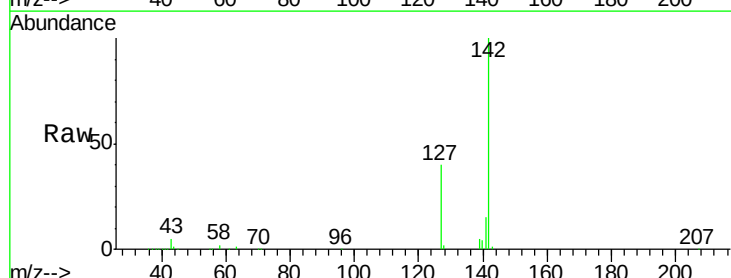
RT: 2.40 min Scan# 406

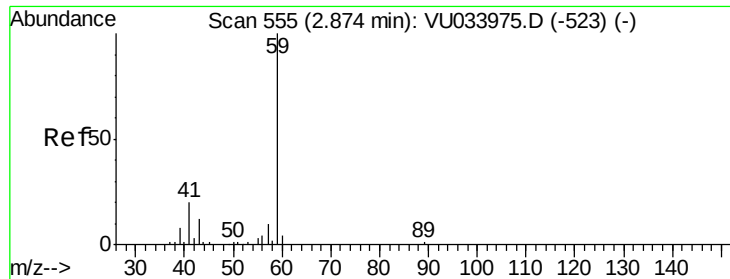
Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion:	142	Resp:	231659
Ion Ratio	Lower	Upper	
142	100		
127	40.2	32.2	48.2
141	14.8	11.8	17.8





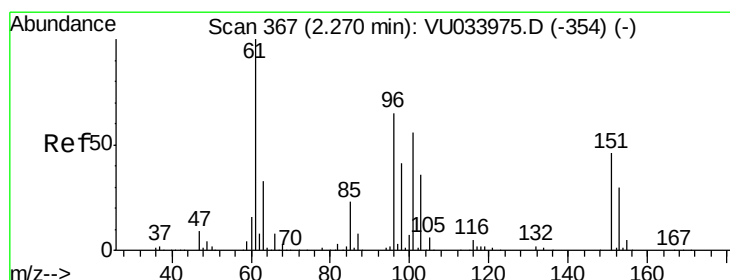
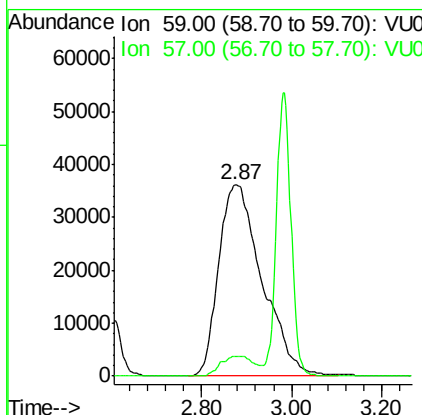
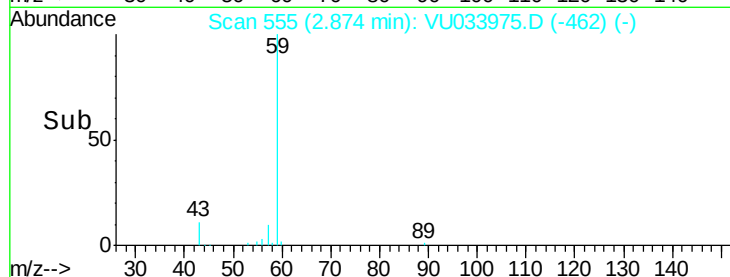
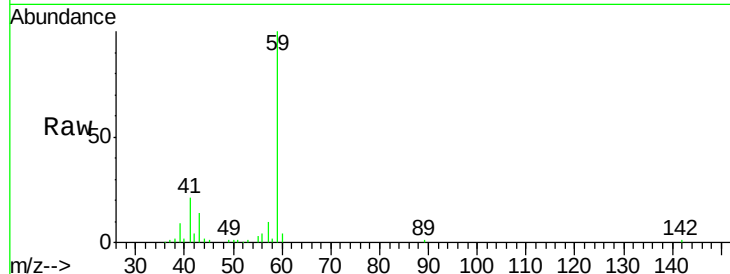
#11
Tert butyl alcohol
Concen: 230.313 ug/l
RT: 2.87 min Scan# 555
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.9	3.9	5.9

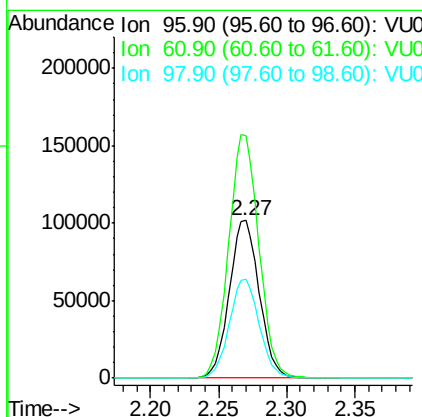
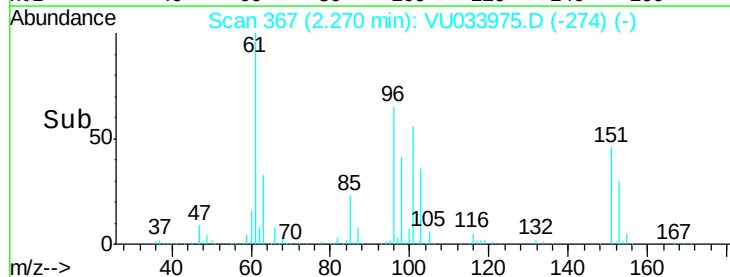
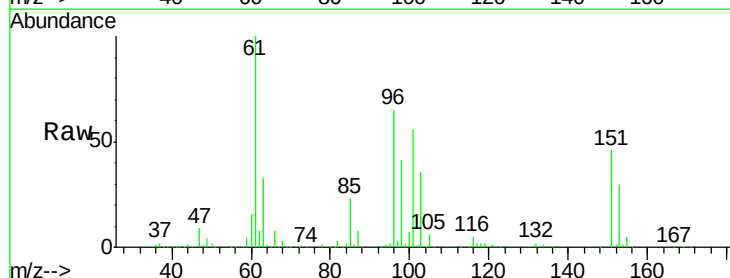
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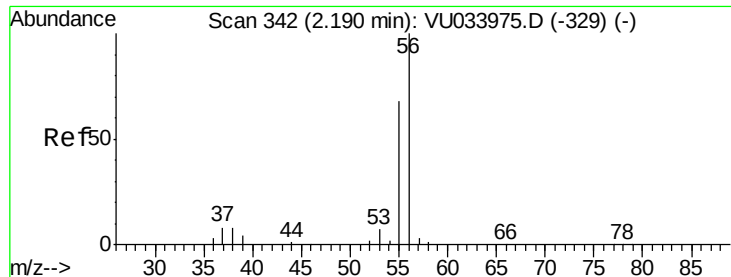
MMDadoda
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#12
1,1-Dichloroethene
Concen: 40.204 ug/l
RT: 2.27 min Scan# 367
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.1	123.3	184.9
98	63.1	50.5	75.7





#13

Acrolein

Concen: 132.414 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 75590

Ion Ratio Lower Upper

56 100

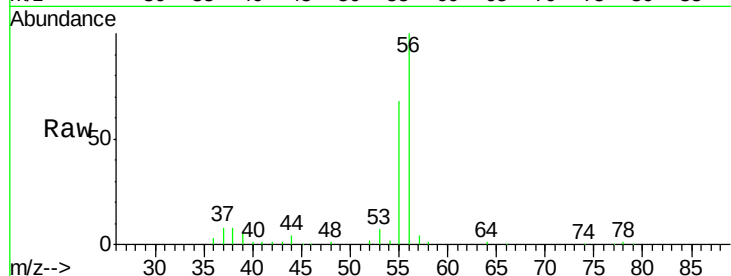
55 72.5 58.0 87.0

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Abundance Ion 56.00 (55.70 to 56.70): VU033975.D (-329) (-)

Ion 55.00 (54.70 to 55.70): VU033975.D (-329) (-)

2.19

50000

40000

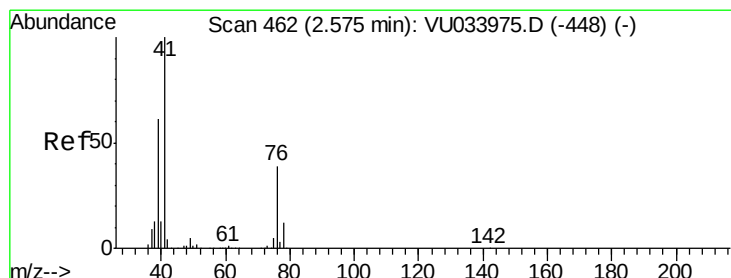
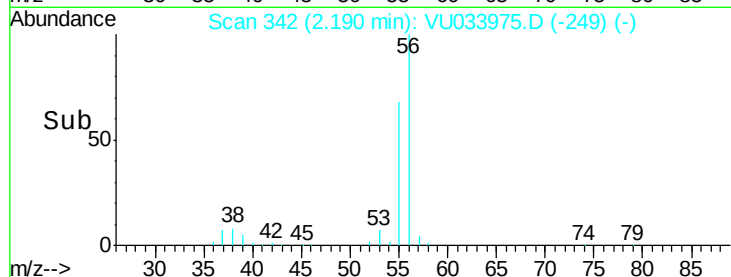
30000

20000

10000

0

Time-->



#14

Allyl chloride

Concen: 39.430 ug/l

RT: 2.58 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

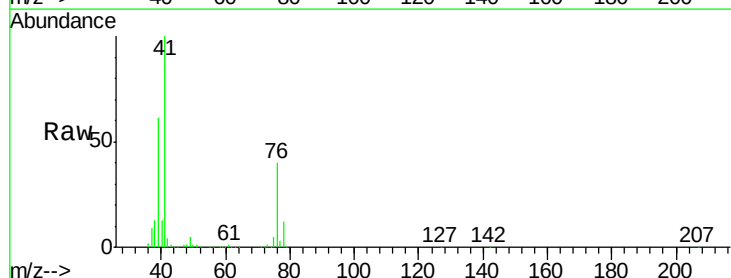
Tgt Ion: 41 Resp: 274349

Ion Ratio Lower Upper

41 100

39 57.4 45.9 68.9

76 36.8 29.4 44.2



Abundance Ion 41.00 (40.70 to 41.70): VU033975.D (-448) (-)

Ion 39.00 (38.70 to 39.70): VU033975.D (-448) (-)

Ion 75.90 (75.60 to 76.60): VU033975.D (-448) (-)

300000

250000

200000

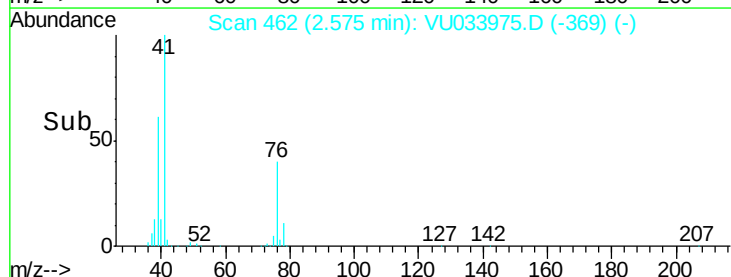
150000

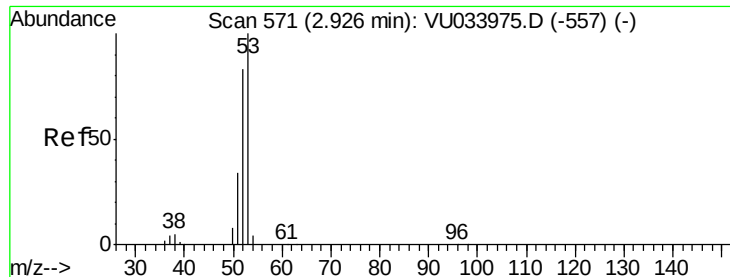
100000

50000

0

Time-->





#15

Acrylonitrile

Concen: 192.571 ug/l

RT: 2.93 min Scan# 571

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

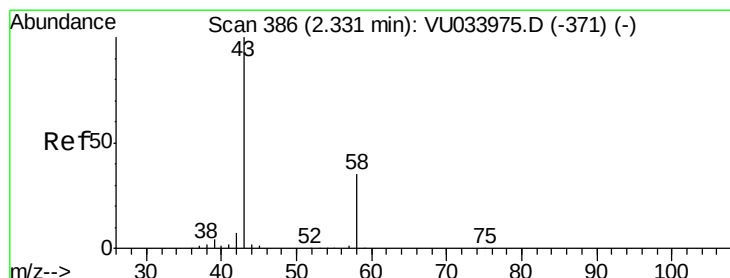
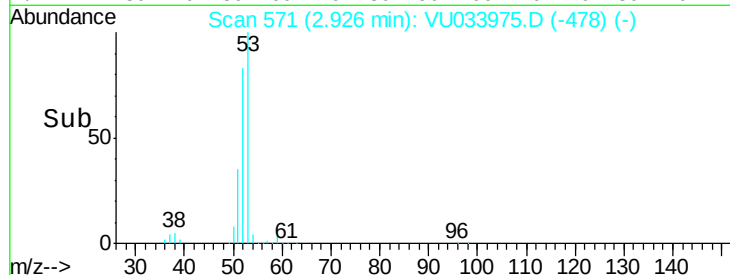
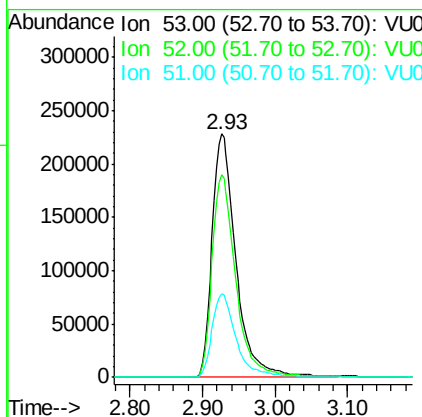
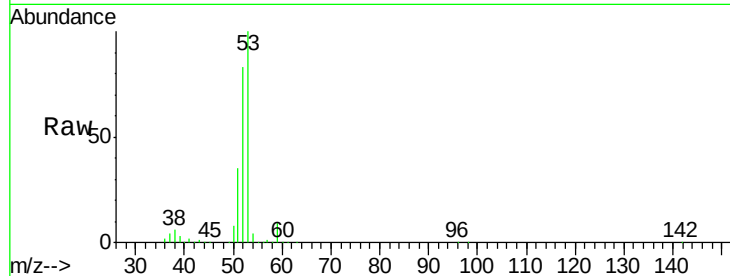
ClientSampleId :

VSTDICCC050

Tot Ion:	53	Resp:	518149
Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.7	100.1
51	34.4	27.5	41.3

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#16

Acetone

Concen: 159.914 ug/l

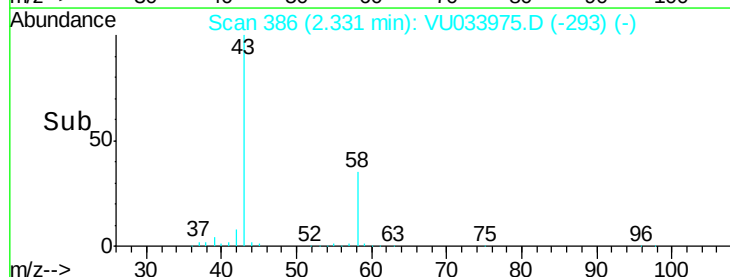
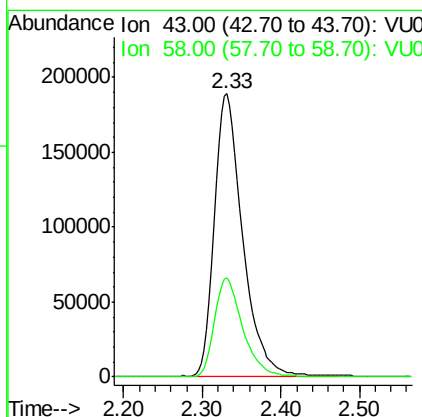
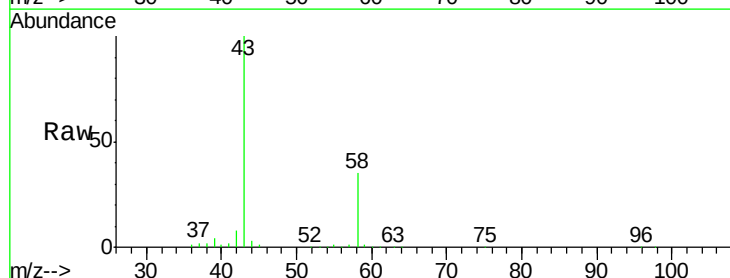
RT: 2.33 min Scan# 386

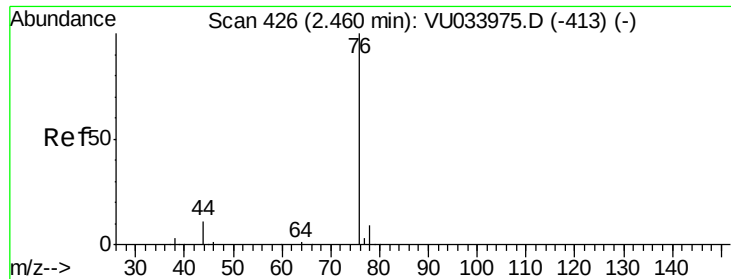
Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion:	43	Resp:	463735
Ion	Ratio	Lower	Upper
43	100		
58	35.0	28.0	42.0





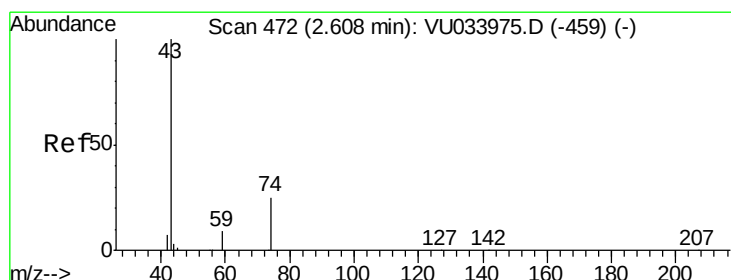
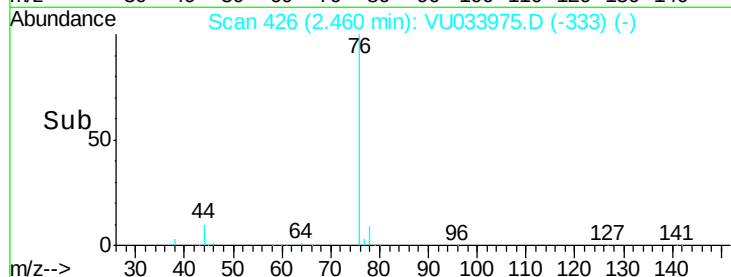
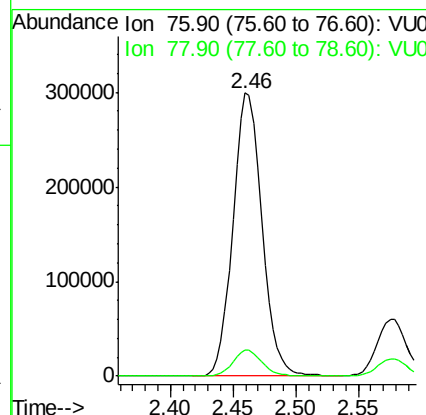
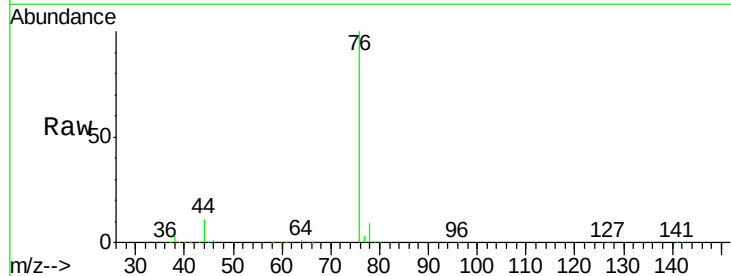
#17
Carbon Disulfide
Concen: 37.992 ug/l
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.5	11.3

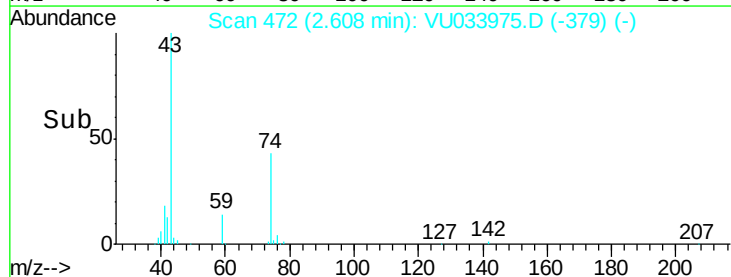
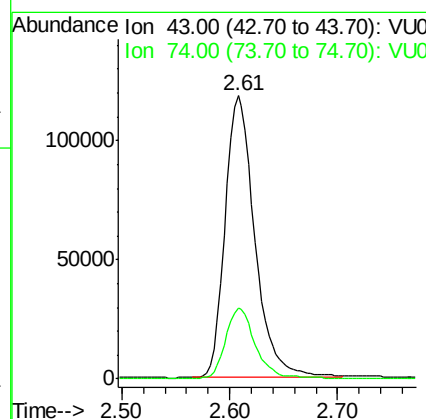
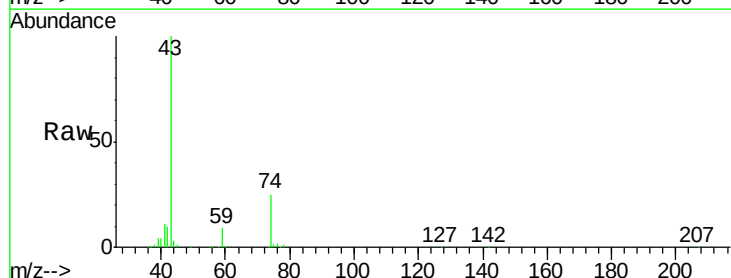
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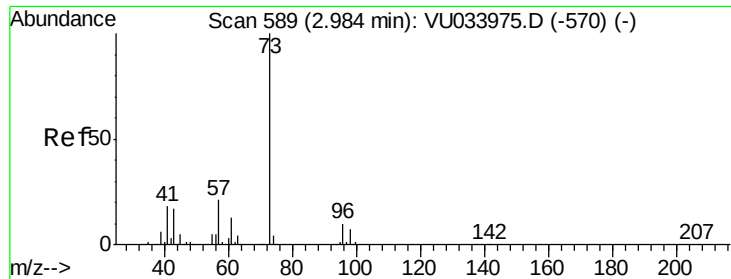
MMDadoda
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#18
Methyl Acetate
Concen: 35.189 ug/l
RT: 2.61 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.6	20.5	30.7





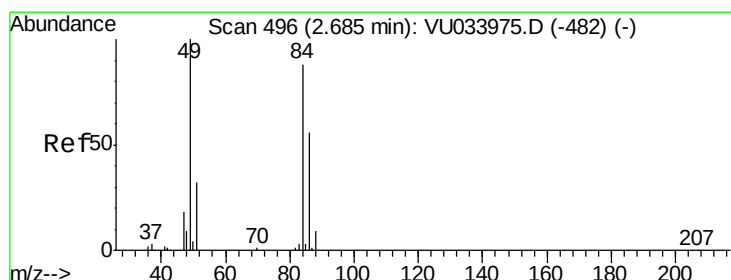
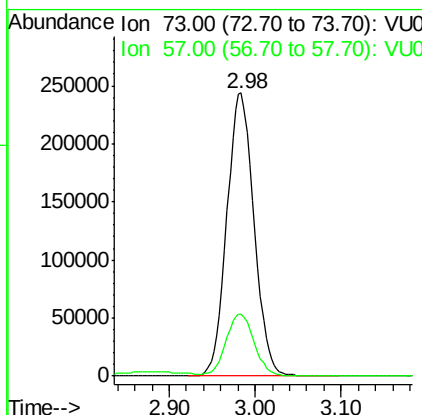
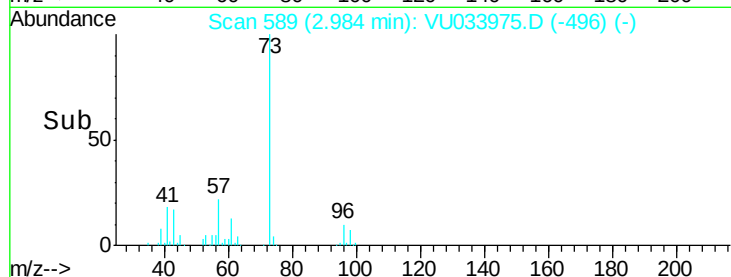
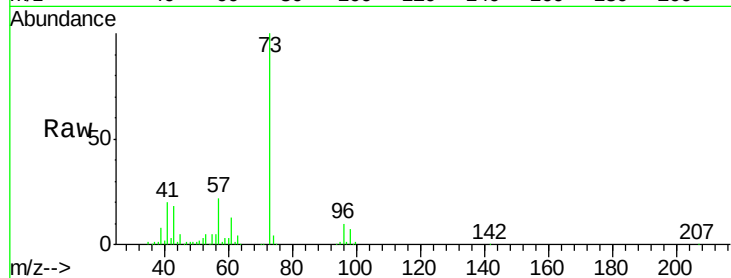
#19
Methyl tert-butyl Ether
Concen: 43.443 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.5	26.3

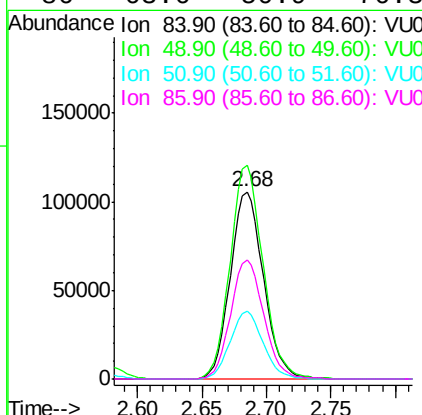
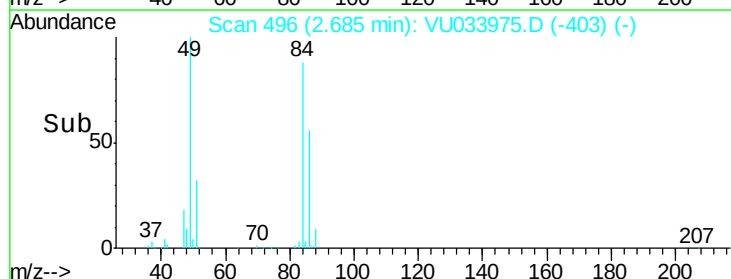
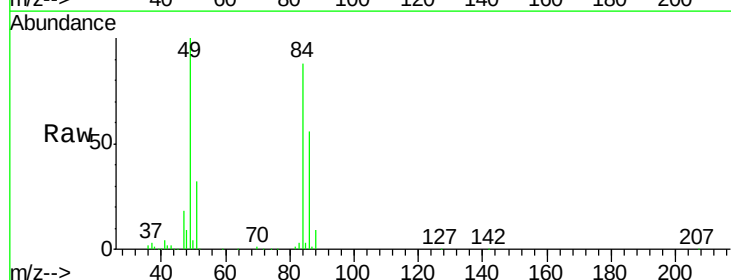
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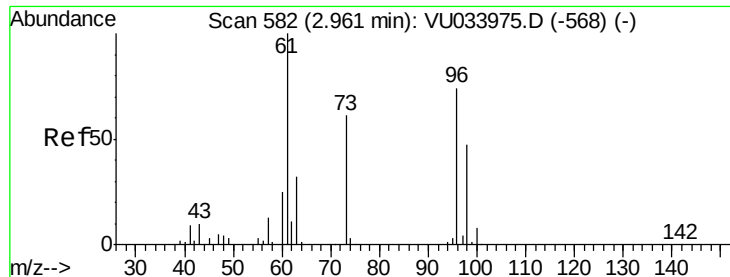
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#20
Methylene Chloride
Concen: 39.683 ug/l
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
84	100		
49	114.1	91.3	136.9
51	36.1	28.9	43.3
86	63.6	50.9	76.3





#21

trans-1,2-Dichloroethene

Concen: 41.664 ug/l

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 96 Resp: 177183

Ion Ratio Lower Upper

96 100

61 135.2 108.2 162.2

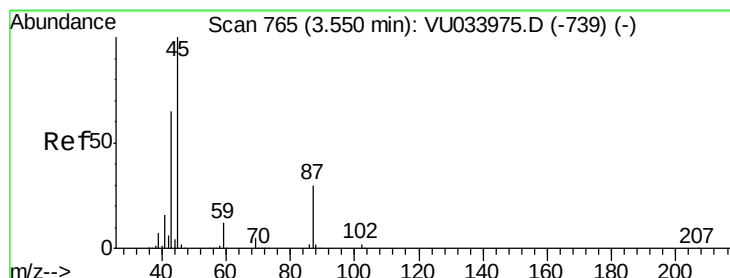
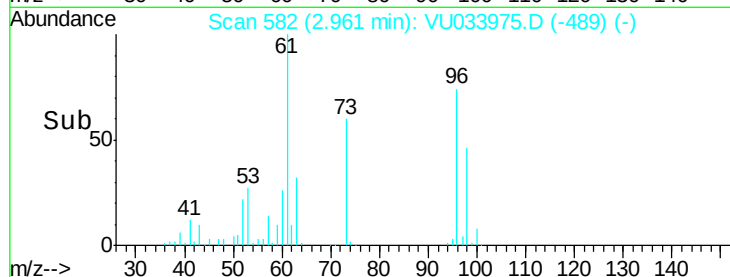
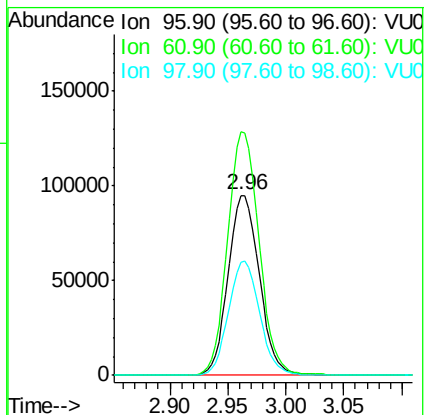
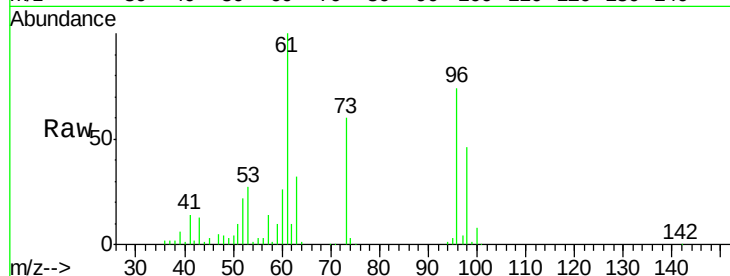
98 62.9 50.3 75.5

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#22

Diisopropyl ether

Concen: 39.386 ug/l

RT: 3.55 min Scan# 765

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion: 45 Resp: 517859

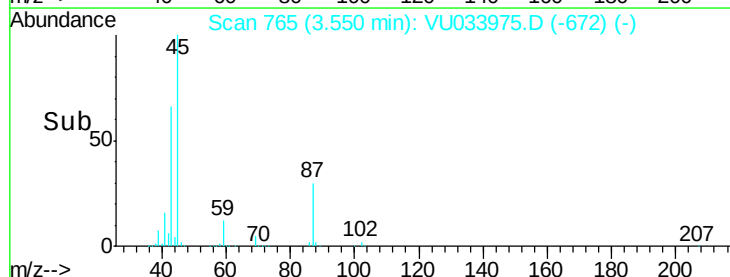
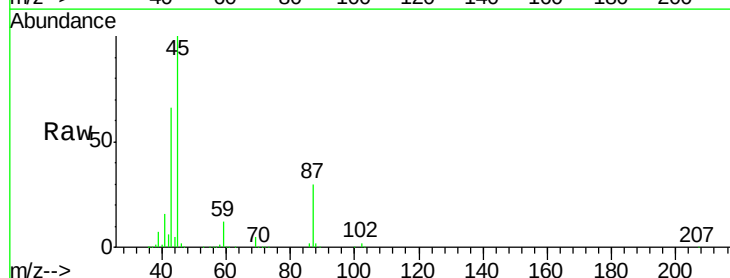
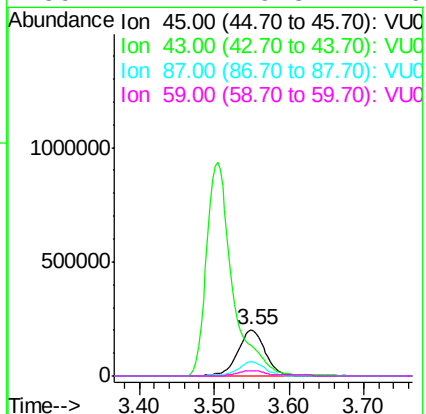
Ion Ratio Lower Upper

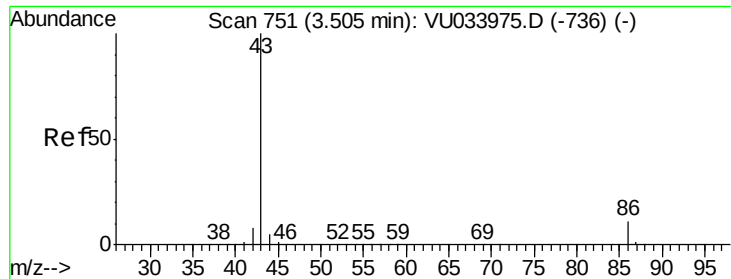
45 100

43 64.5 51.6 77.4

87 30.5 24.4 36.6

59 12.2 9.8 14.6





#23

Vinyl Acetate

Concen: 208.597 ug/l

RT: 3.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 2259469

Ion Ratio Lower Upper

43 100

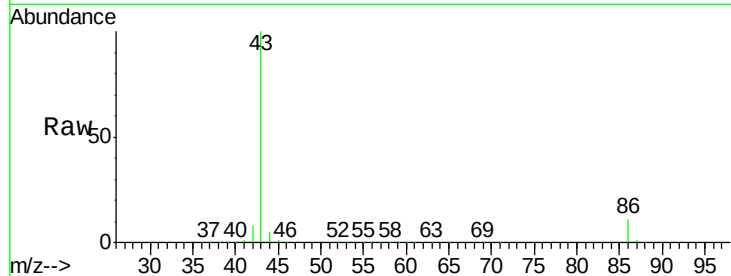
86 11.4 9.1 13.7

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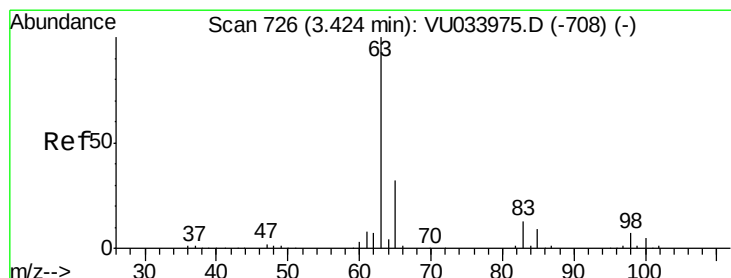
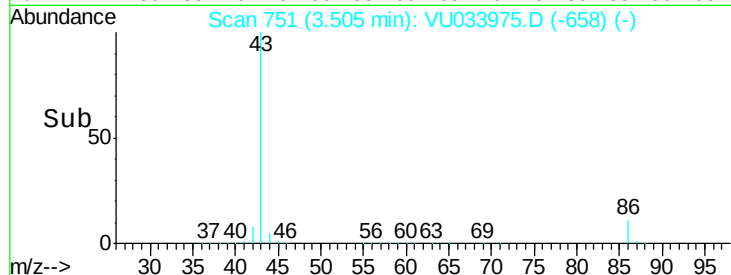
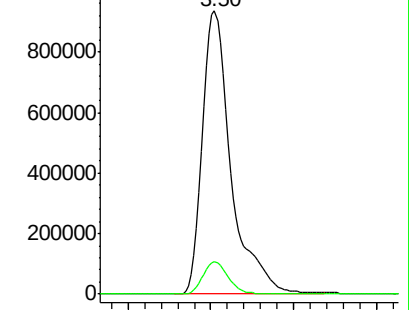
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Abundance Ion 43.00 (42.70 to 43.70): VU033975.D (-736) (-)

Ion 86.00 (85.70 to 86.70): VU033975.D (-736) (-)



#24

1,1-Dichloroethane

Concen: 39.071 ug/l

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

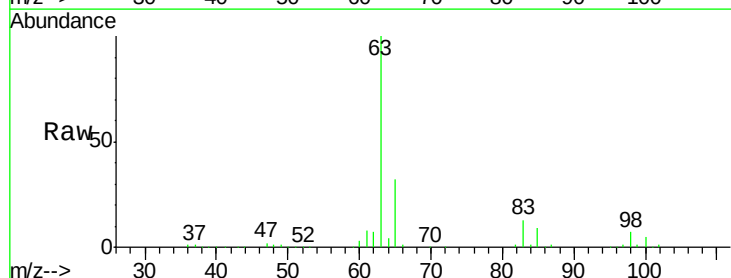
Tgt Ion: 63 Resp: 318604

Ion Ratio Lower Upper

63 100

98 6.9 3.5 10.4

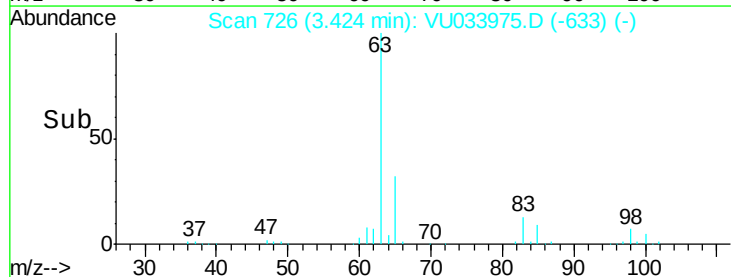
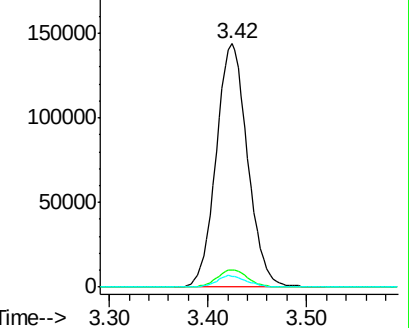
100 4.5 2.3 6.8

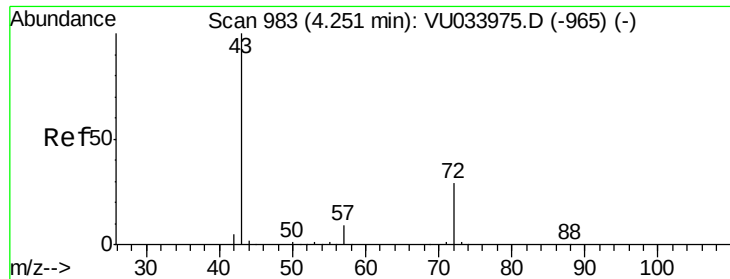


Abundance Ion 62.90 (62.60 to 63.60): VU033975.D (-708) (-)

Ion 97.90 (97.60 to 98.60): VU033975.D (-708) (-)

Ion 99.90 (99.60 to 100.60): VU033975.D (-708) (-)





#25

2-Butanone

Concen: 184.724 ug/l

RT: 4.25 min Scan# 983

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tot Ion: 43 Resp: 691268

Ion Ratio Lower Upper

43 100

72 28.6 22.9 34.3

Instrument :

MSVOA_U

ClientSampleId :

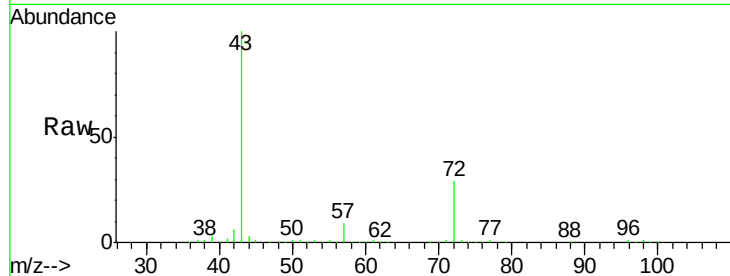
VSTDICCC050

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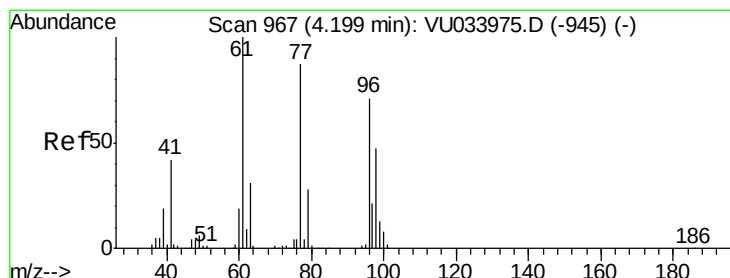
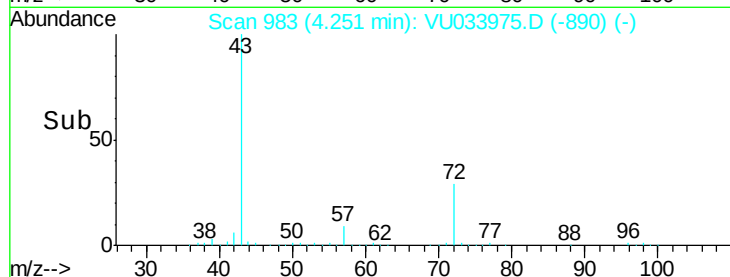
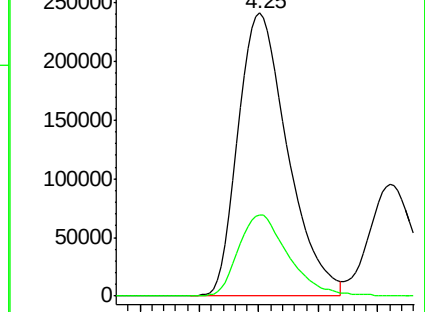
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Abundance Ion 43.00 (42.70 to 43.70): VU033975.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU033975.D (-965) (-)



#26

2,2-Dichloropropane

Concen: 40.070 ug/l

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033975.D

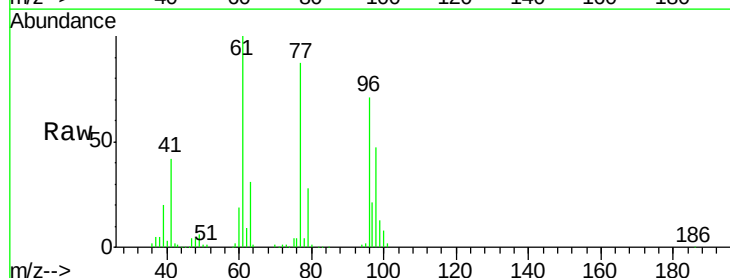
Acq: 27 Aug 2019 15:54

Tgt Ion: 77 Resp: 265912

Ion Ratio Lower Upper

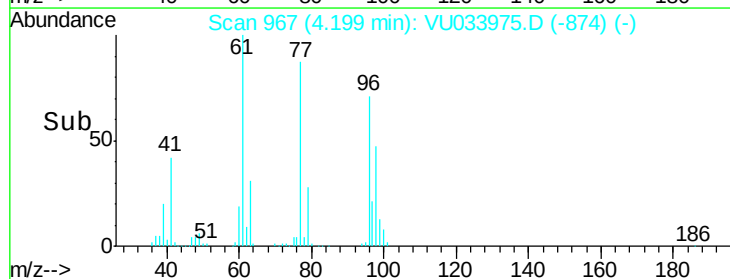
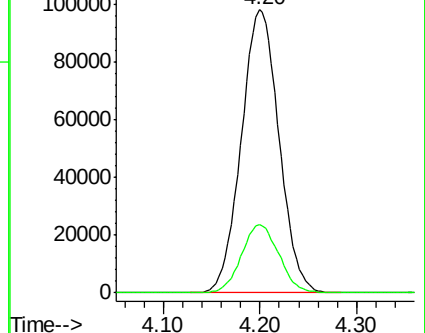
77 100

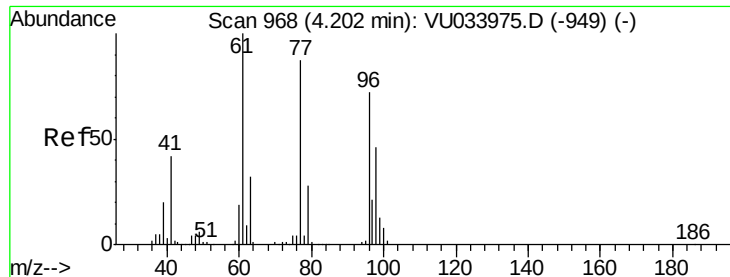
97 24.0 12.0 36.0



Abundance Ion 76.90 (76.60 to 77.60): VU033975.D (-945) (-)

Ion 96.90 (96.60 to 97.60): VU033975.D (-945) (-)





#27

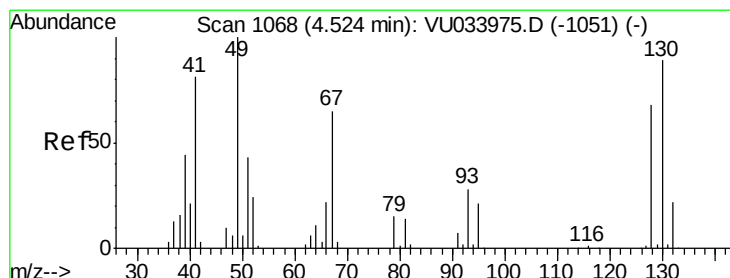
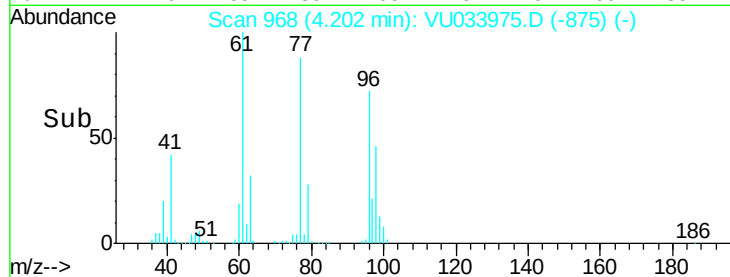
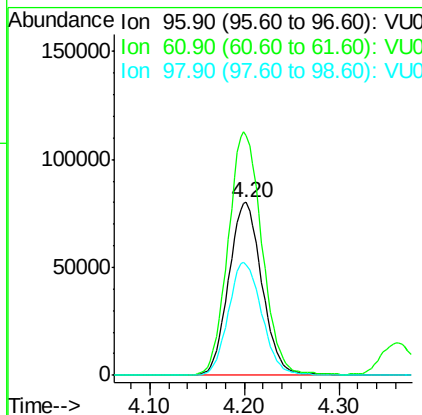
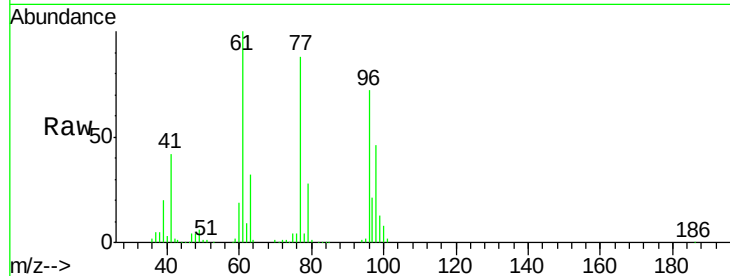
cis-1,2-Dichloroethene
Concen: 42.743 ug/l
RT: 4.20 min Scan# 968
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	195549		
61	143.6	0.0	287.2	
98	65.9	0.0	131.8	

Manual Integrations
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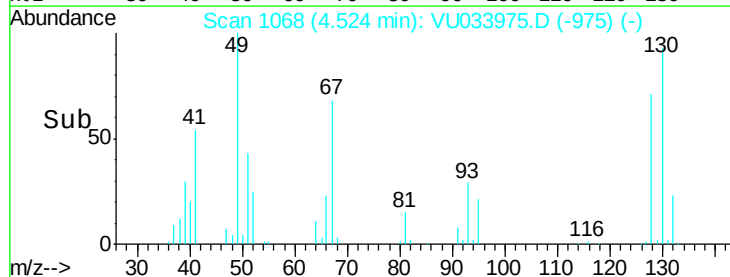
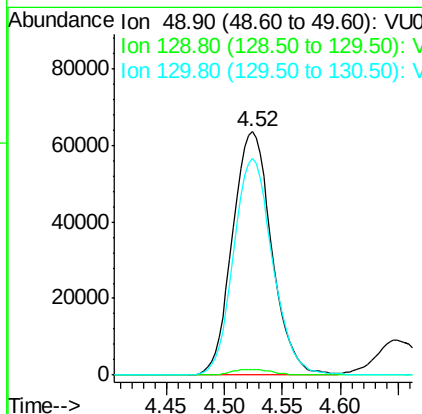
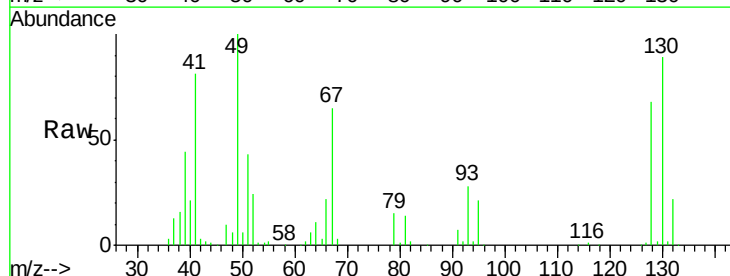
MMDadoda
8/28/2019 9:57:50 AM

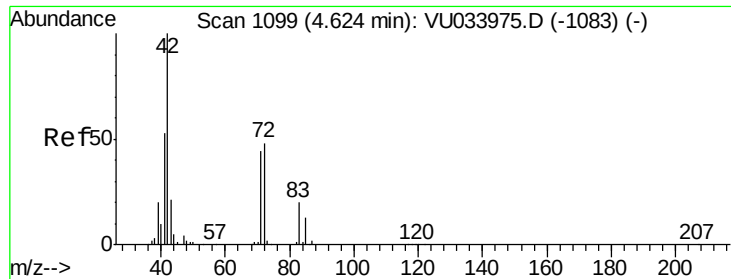


#28

Bromochloromethane
Concen: 37.508 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	149745		
129	2.3	0.0	4.6	
130	88.8	71.0	106.6	





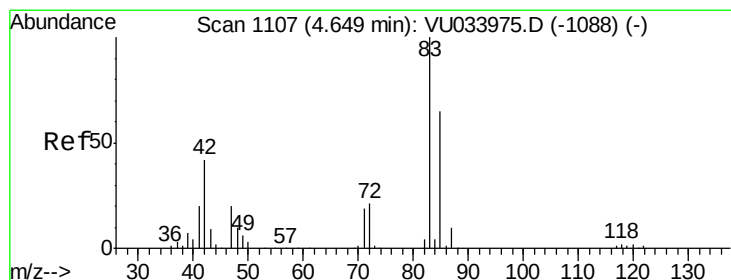
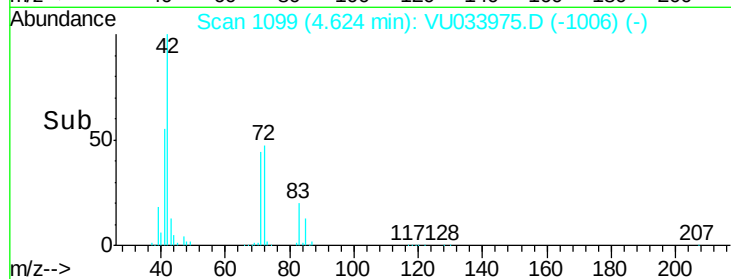
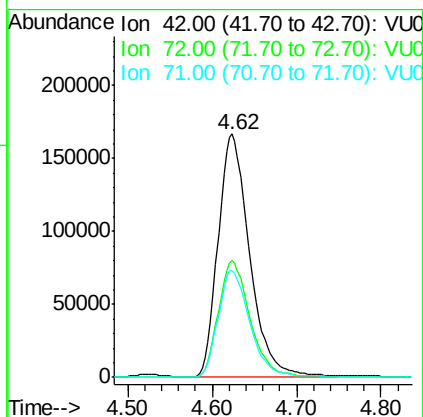
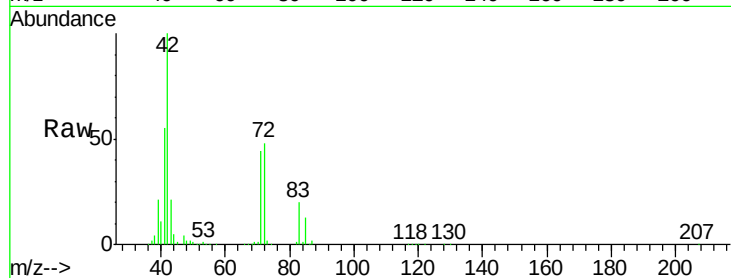
#29
Tetrahydrofuran
Concen: 191.510 ug/l
RT: 4.62 min Scan# 1099
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.6	38.9	58.3
71	44.6	35.7	53.5

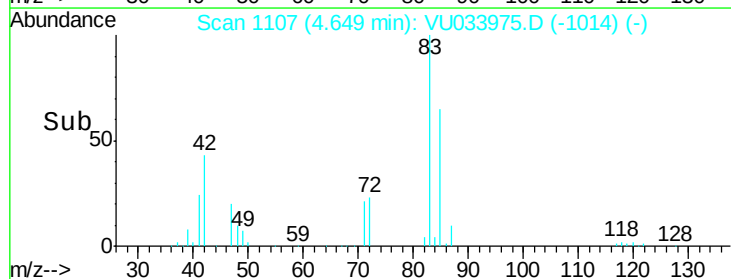
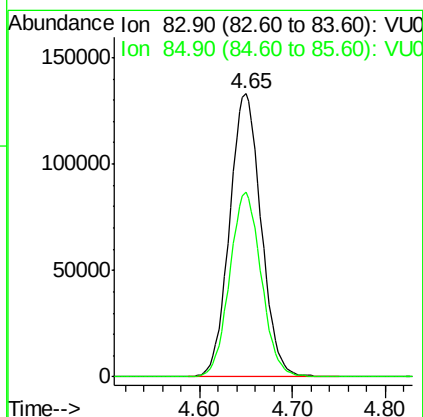
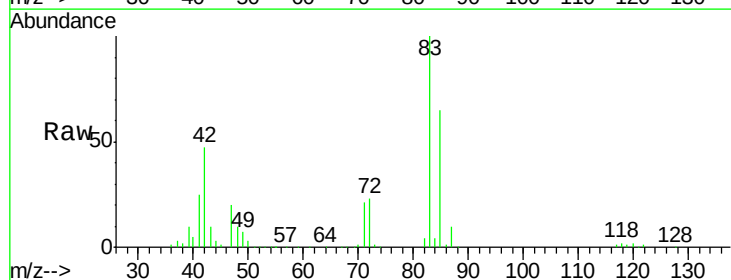
Manual Integrations
APPROVED

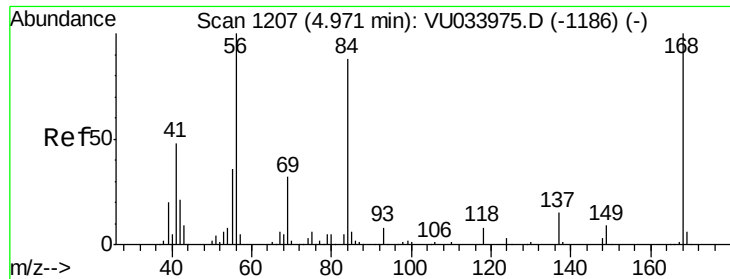
MMDadoda
8/28/2019 9:57:50 AM



#30
Chloroform
Concen: 38.610 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1





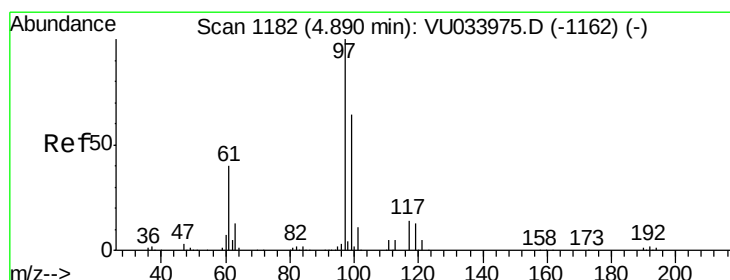
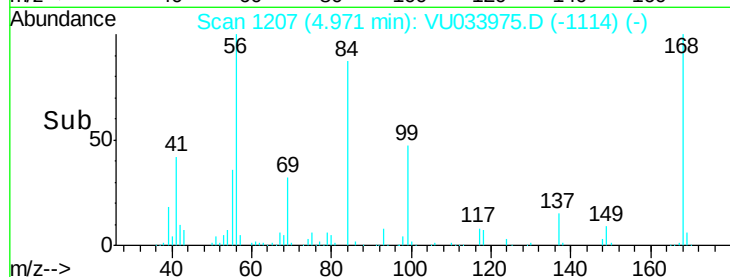
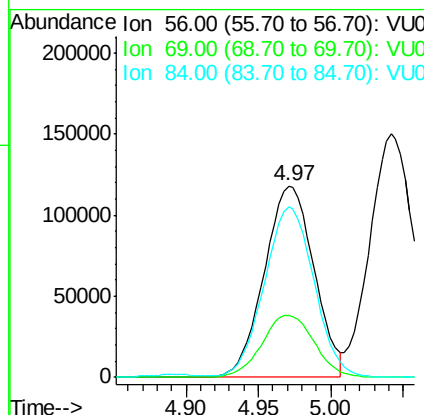
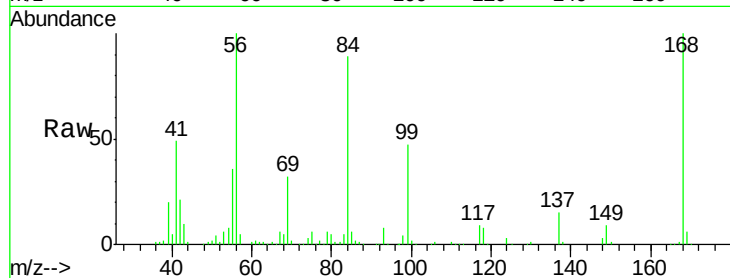
#31
Cyclohexane
Concen: 39.561 ug/l
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	25.9	38.9
84	88.0	70.4	105.6

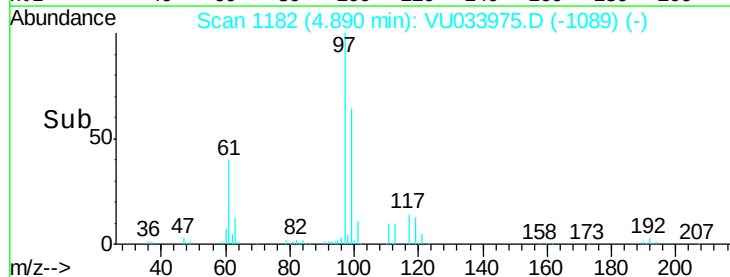
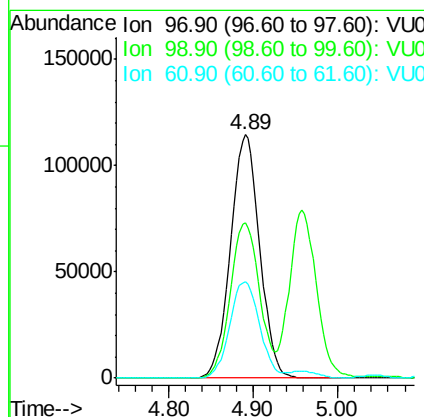
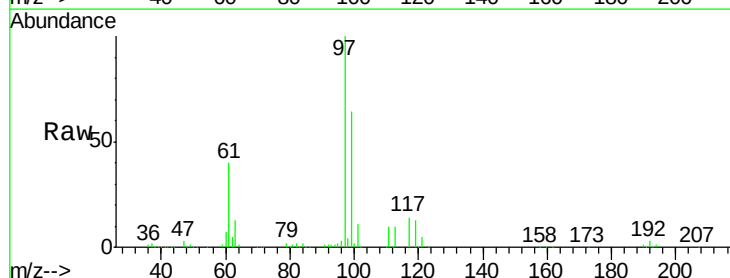
Manual Integrations
APPROVED

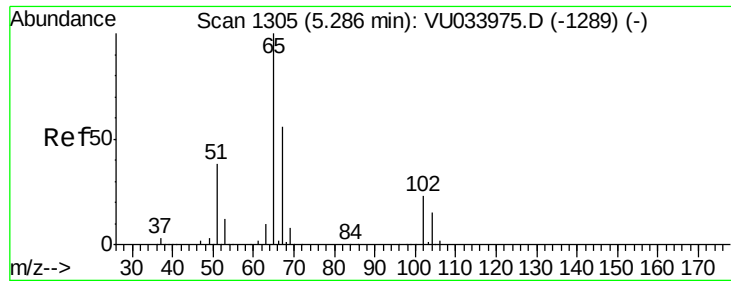
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8/28/2019 9:57:50 AM



#32
1,1,1-Trichloroethane
Concen: 41.130 ug/l
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	40.9	32.7	49.1





#33

1,2-Dichloroethane-d4

Concen: 39.258 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tot Ion: 65 Resp: 196253

Ion Ratio Lower Upper

65 100

67 55.5 0.0 111.0

Instrument :

MSVOA_U

ClientSampleId :

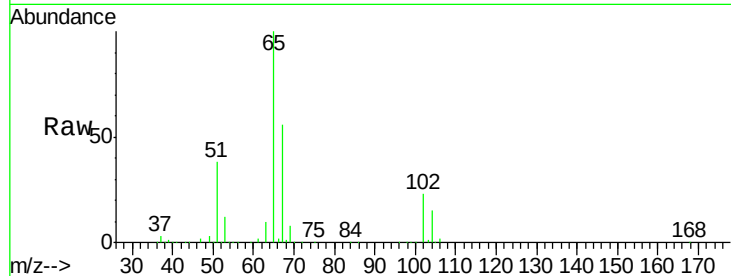
VSTDICCC050

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VU033975.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU033975.D (-1289) (-)

5.29

100000

80000

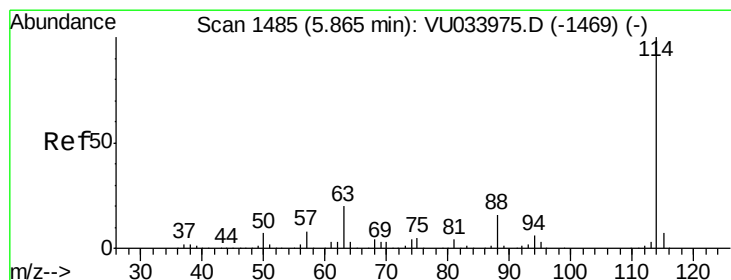
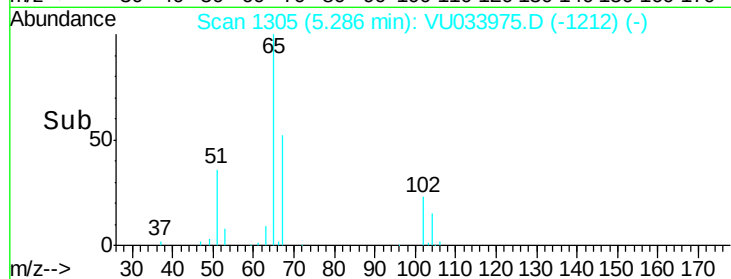
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

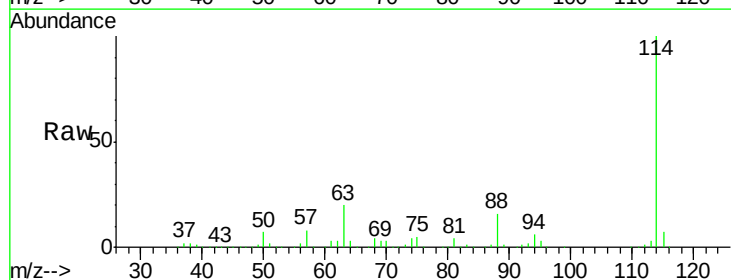
Tgt Ion: 114 Resp: 529765

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

88 15.6 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VU033975.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU033975.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU033975.D (-1469) (-)

5.86

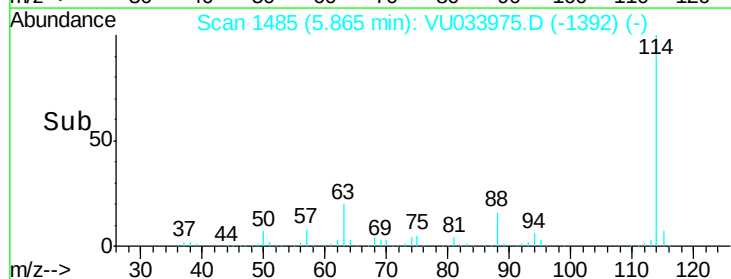
300000

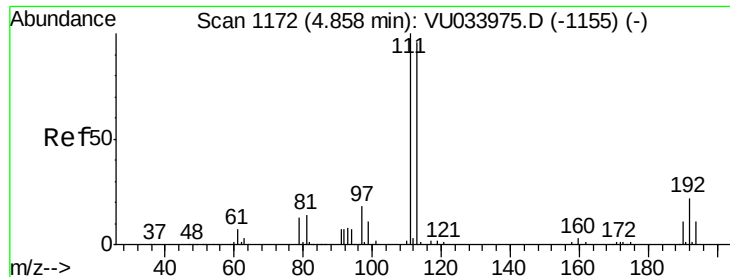
200000

100000

0

Time-->





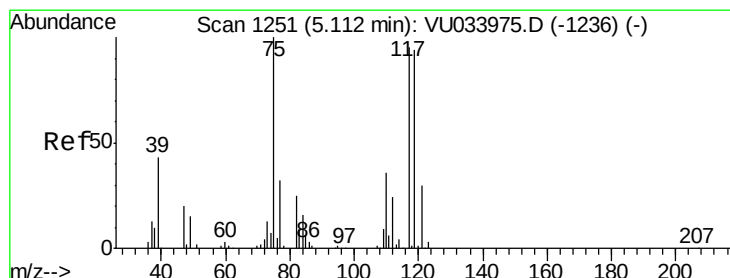
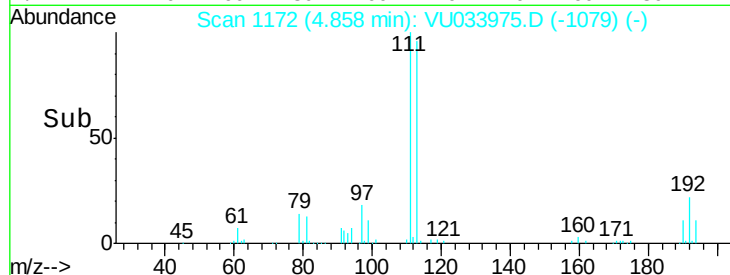
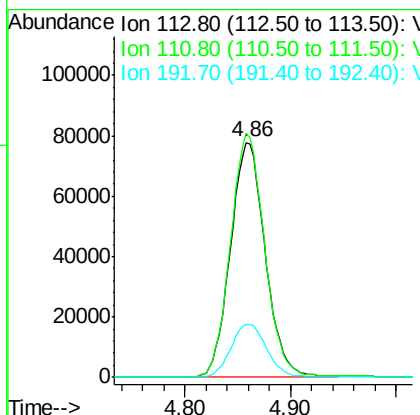
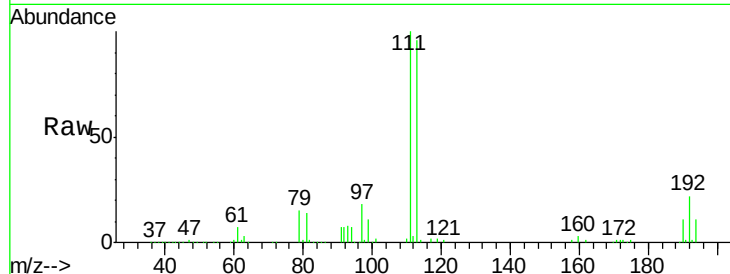
#35
 Dibromofluoromethane
 Concen: 47.634 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	177651		
111	102.1	81.7	122.5	
192	23.2	18.6	27.8	

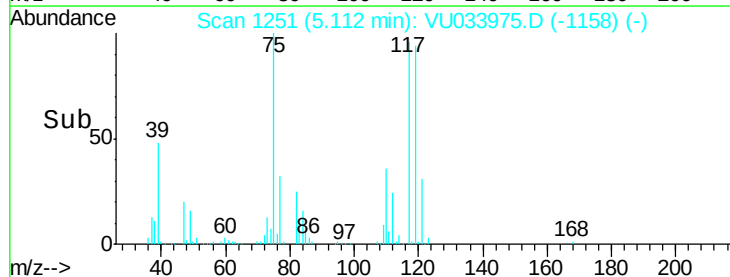
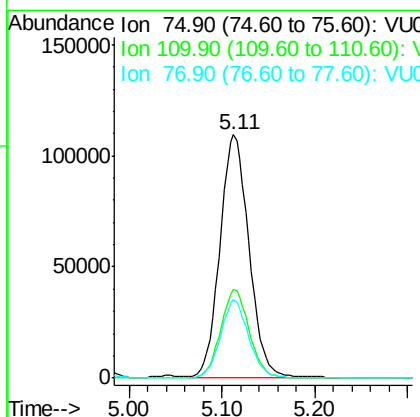
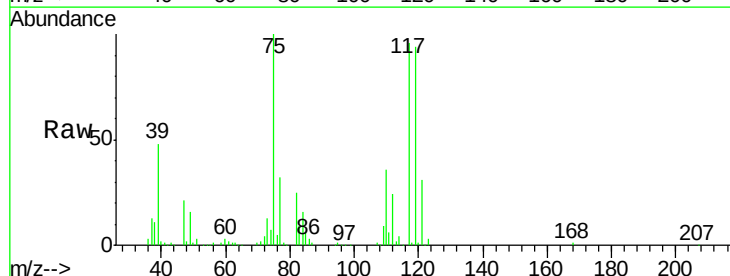
Manual Integrations
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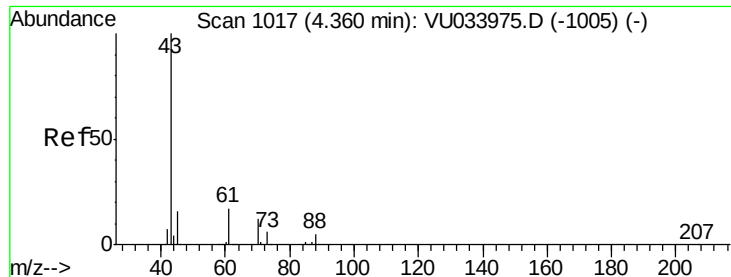
MMDadoda
 8/28/2019 9:57:50 AM



#36
 1,1-Dichloropropene
 Concen: 44.026 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	235510		
110	36.4	18.2	54.6	
77	31.0	24.8	37.2	





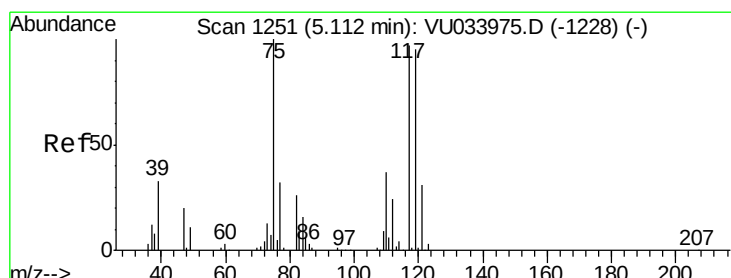
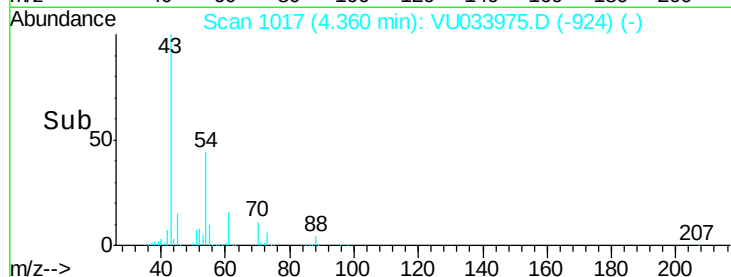
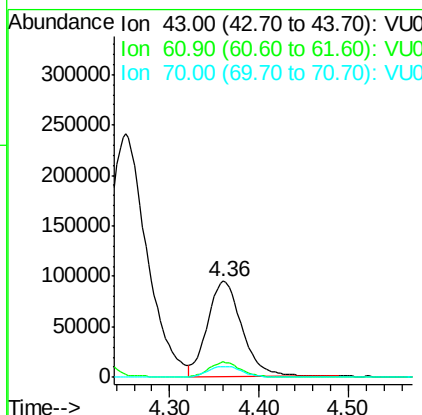
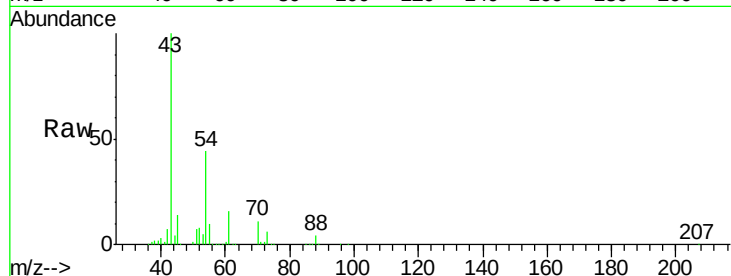
#37
Ethyl Acetate
Concen: 40.703 ug/l
RT: 4.36 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.0	18.0
70	11.5	9.2	13.8

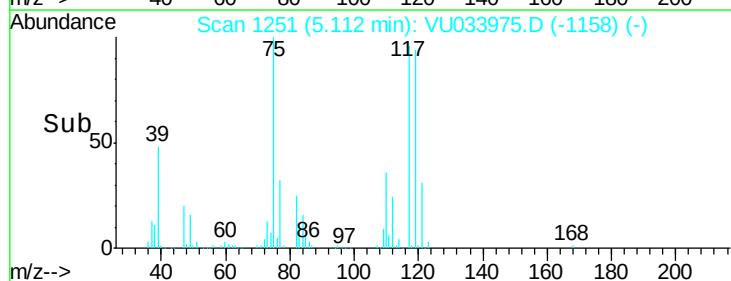
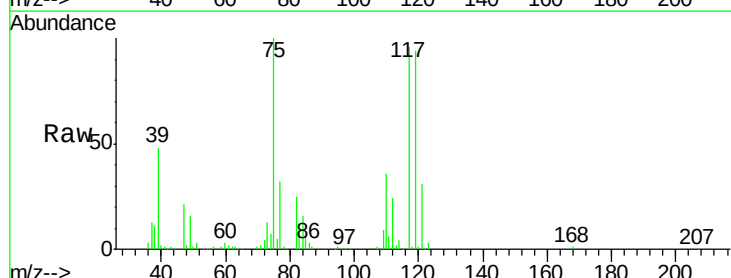
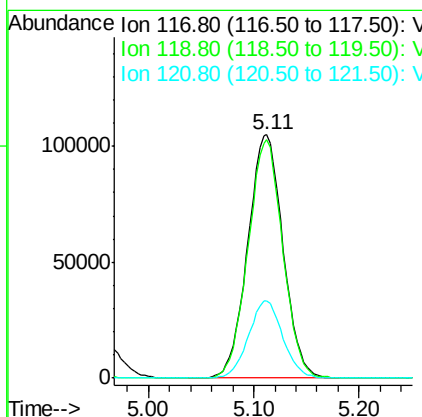
Manual Integrations
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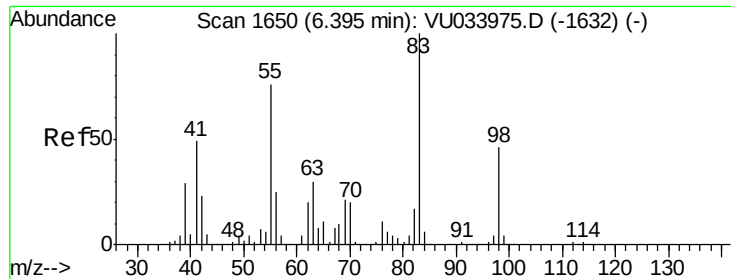
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#38
Carbon Tetrachloride
Concen: 45.131 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.0	78.4	117.6
121	31.8	25.4	38.2





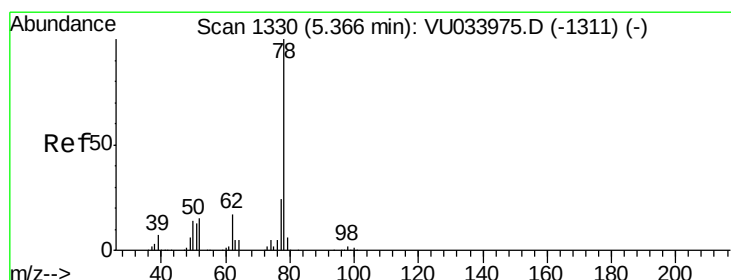
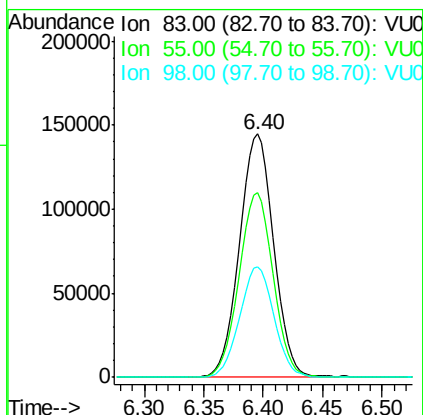
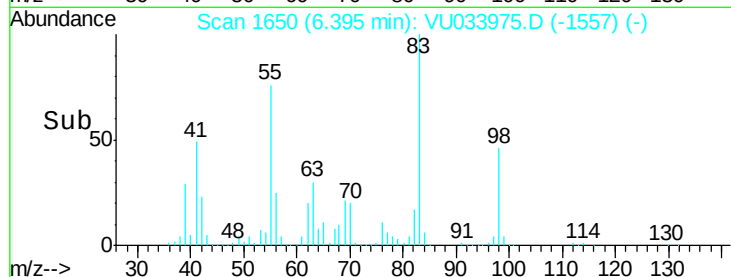
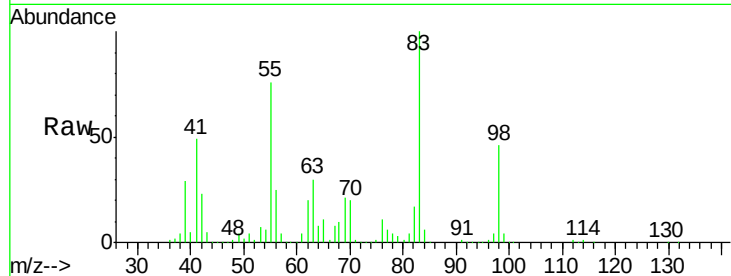
#39
Methylvlcyclohexane
Concen: 48.531 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	289279		
55	76.0		60.8	91.2
98	45.6		36.5	54.7

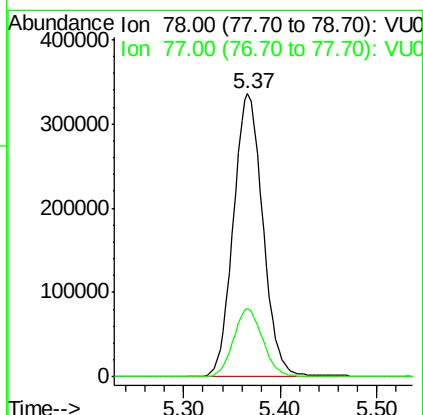
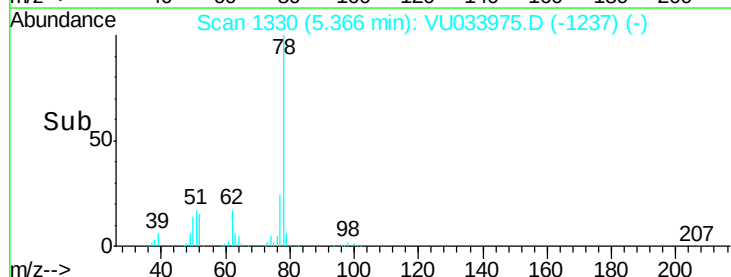
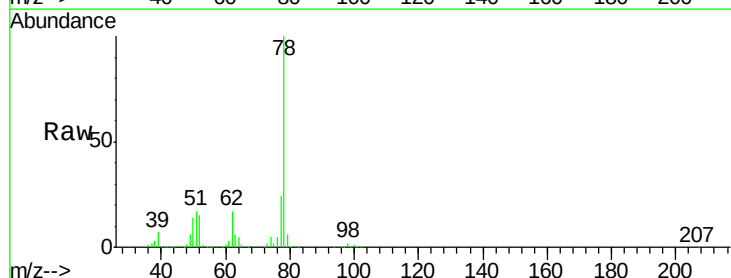
Manual Integrations
APPROVED

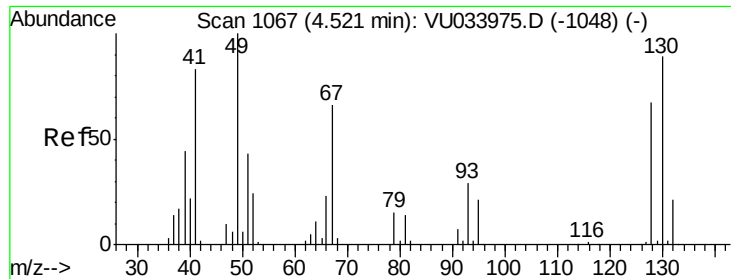
MMDadoda
8/28/2019 9:57:50 AM



#40
Benzene
Concen: 44.799 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	712808		
77	24.0		19.2	28.8





#41

Methacrylonitrile

Concen: 42.229 ug/l

RT: 4.52 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 41 Resp: 131643

Ion Ratio Lower Upper

41 100

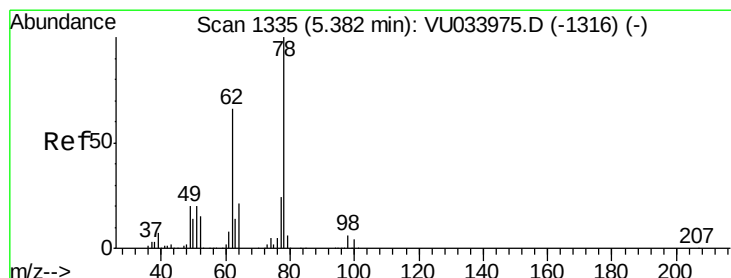
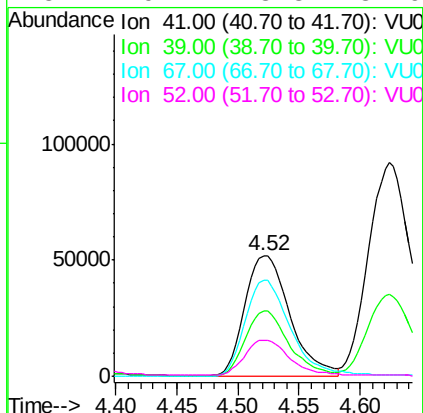
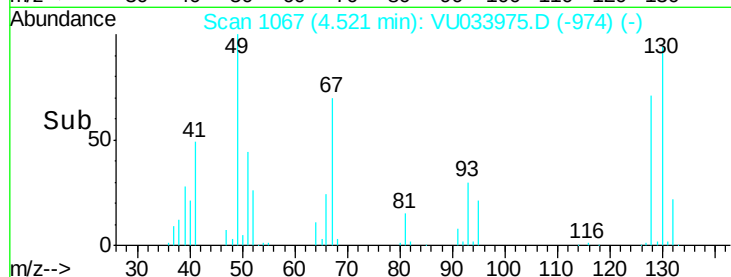
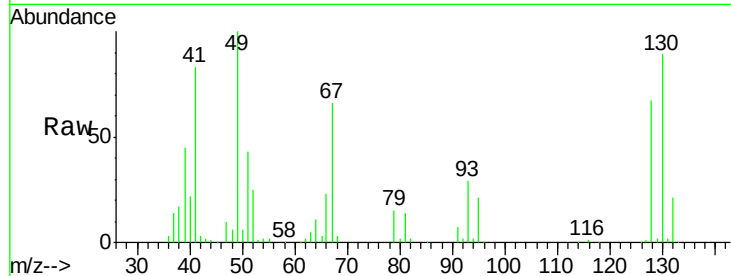
39 51.9 41.5 62.3

67 81.3 65.0 97.6

52 29.1 23.3 34.9

Manual Integrations
APPROVED

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8/28/2019 9:57:50 AM



#42

1,2-Dichloroethane

Concen: 41.665 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU033975.D

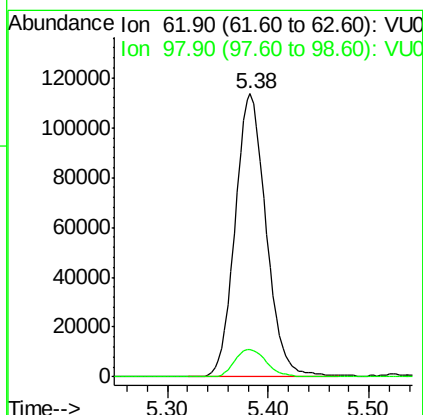
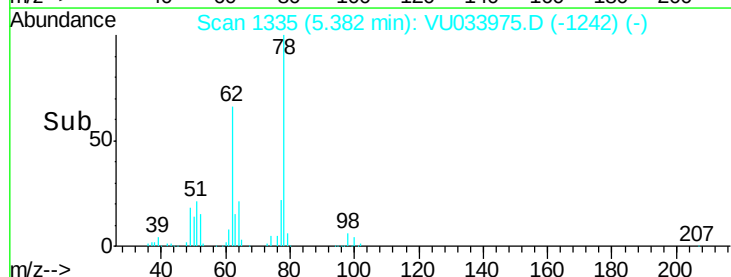
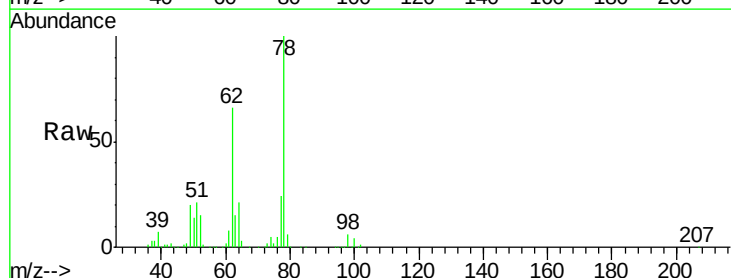
Acq: 27 Aug 2019 15:54

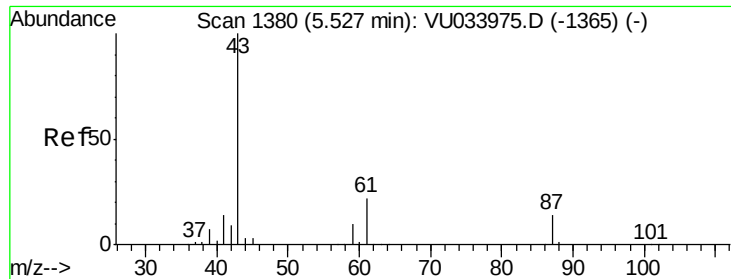
Tgt Ion: 62 Resp: 242295

Ion Ratio Lower Upper

62 100

98 10.0 0.0 20.0





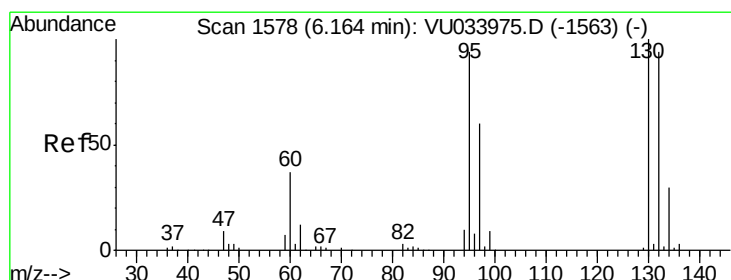
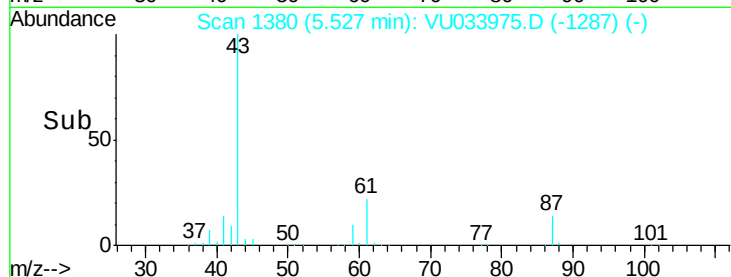
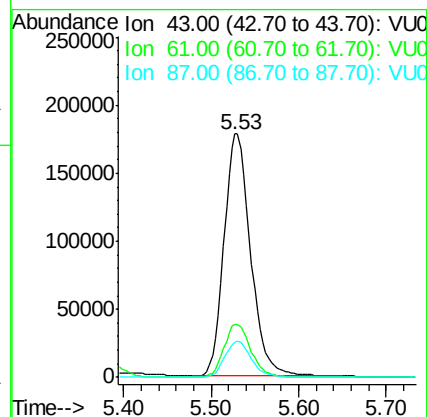
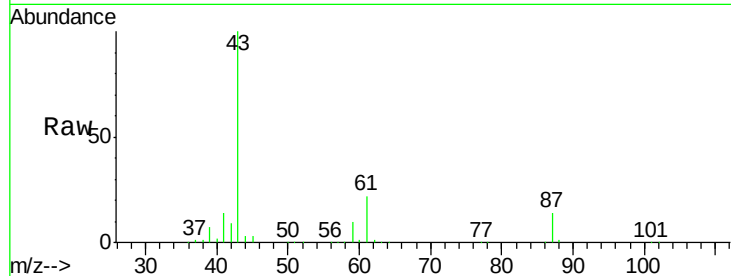
#43
Isopropyl Acetate
Concen: 41.362 ug/l
RT: 5.53 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.3	17.8	26.8
87	14.9	11.9	17.9

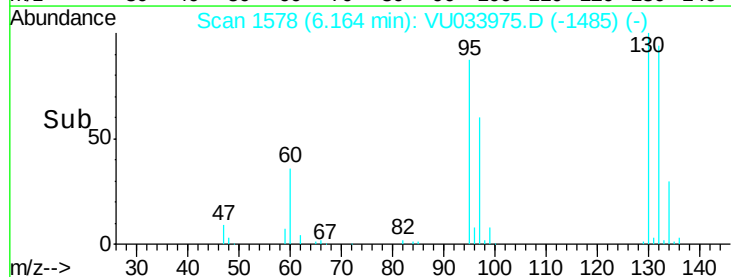
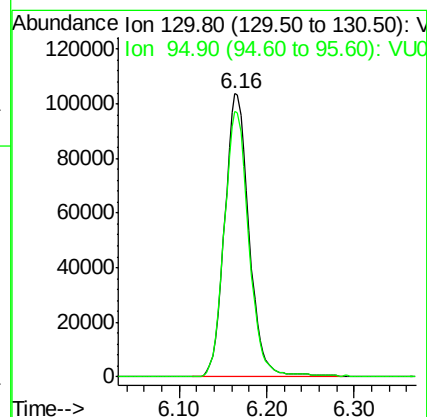
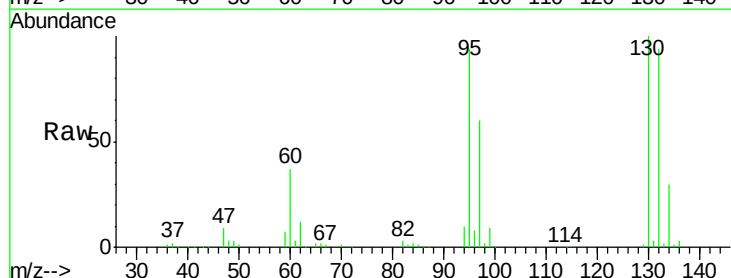
Manual Integrations
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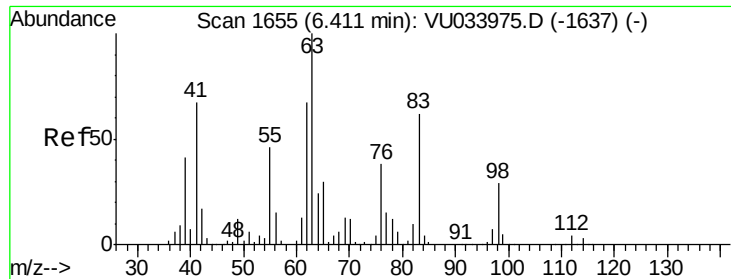
MMDadoda
8/28/2019 9:57:50 AM



#44
Trichloroethene
Concen: 47.855 ug/l
RT: 6.16 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.8	0.0	187.6





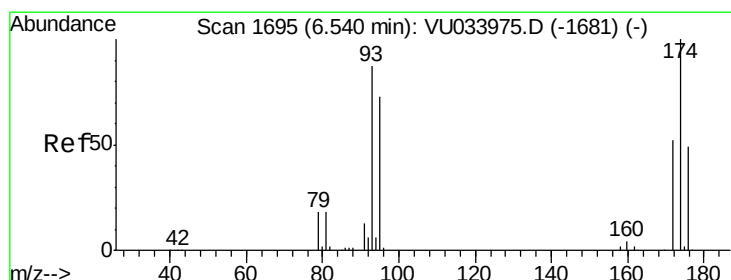
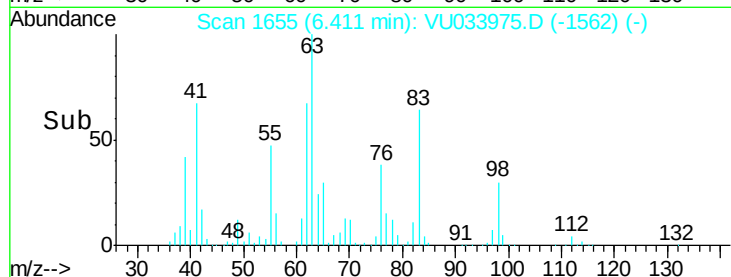
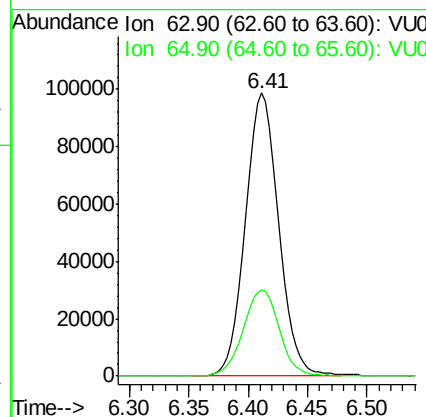
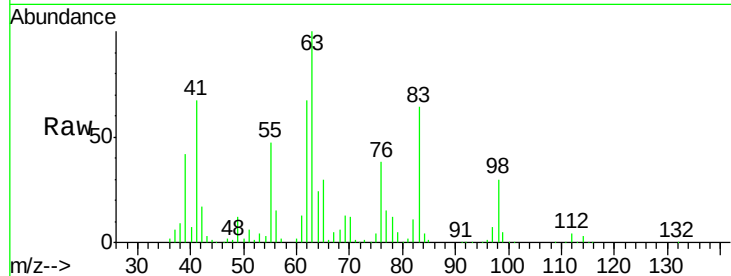
#45
 1,2-Dichloropropane
 Concen: 43.742 ug/l
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.3	36.5

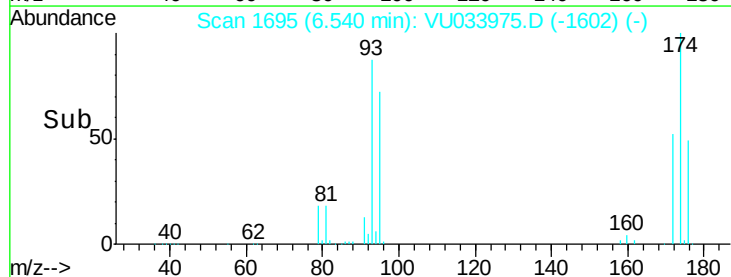
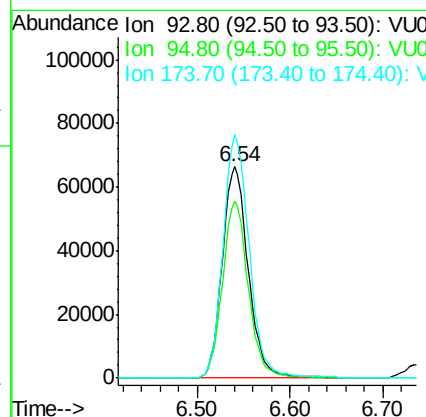
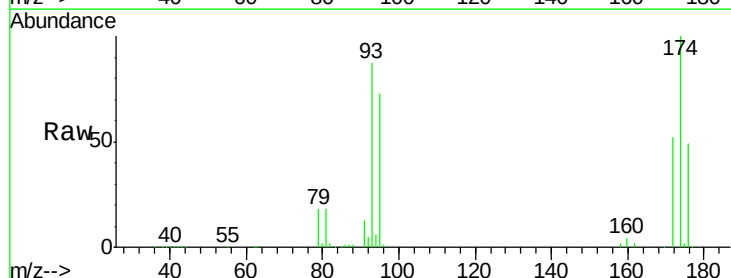
Manual Integrations
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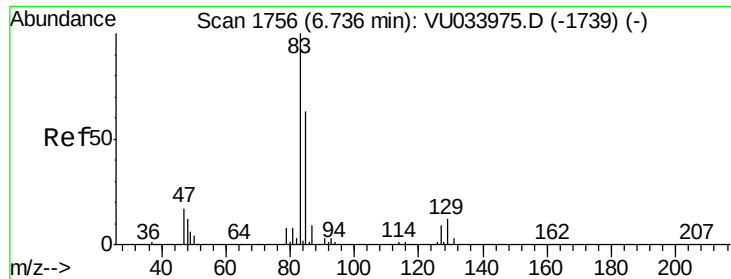
MMDadoda
 8/28/2019 9:57:50 AM



#46
 Dibromomethane
 Concen: 45.542 ug/l
 RT: 6.54 min Scan# 1695
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.4
174	115.2	92.2	138.2





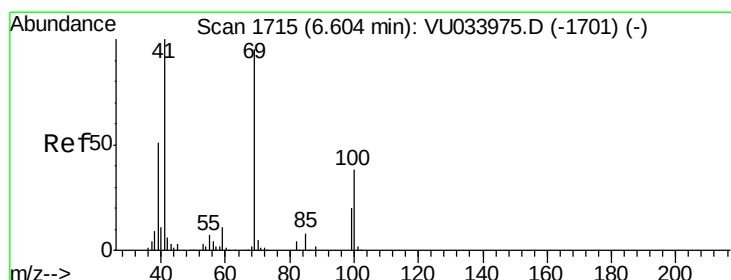
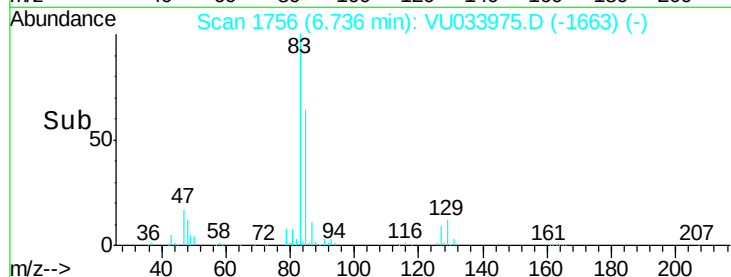
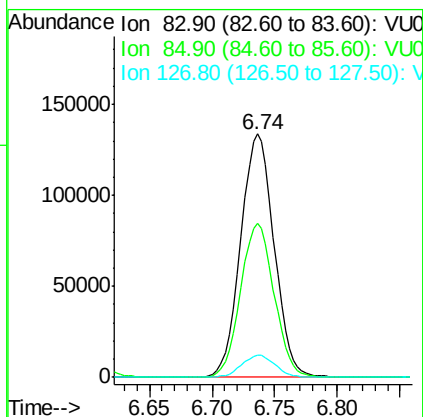
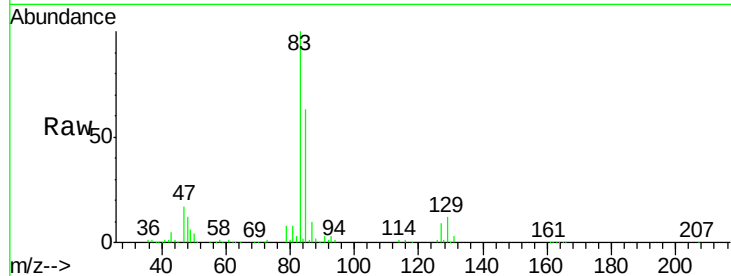
#47
Bromodichloromethane
Concen: 43.579 ug/l
RT: 6.74 min Scan# 1756
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	248895		
85	63.3		50.6	76.0
127	9.2		7.4	11.0

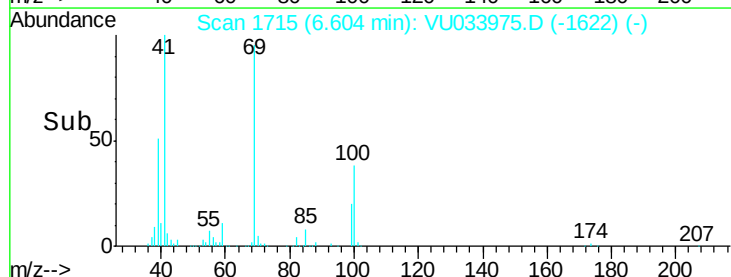
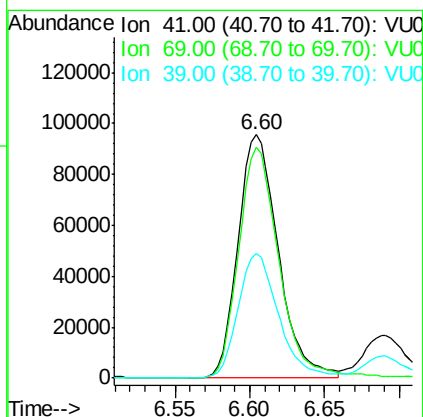
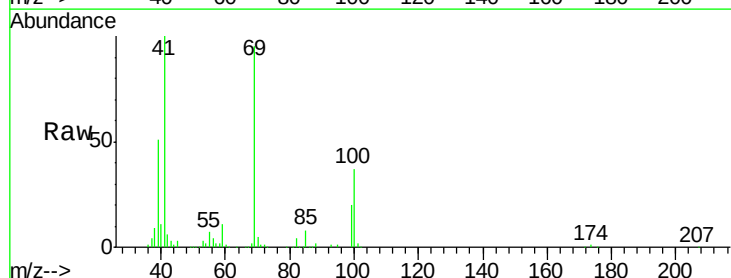
Manual Integrations
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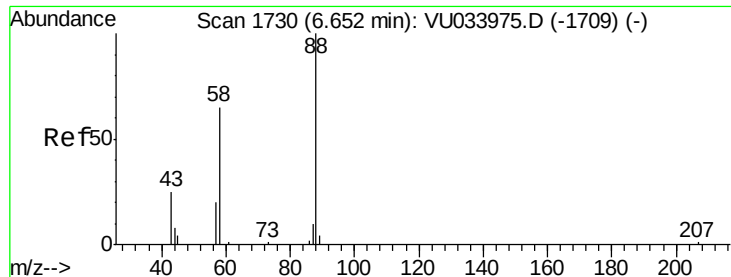
MMDadoda
8/28/2019 9:57:50 AM



#48
Methyl methacrylate
Concen: 43.715 ug/l
RT: 6.60 min Scan# 1715
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	178506		
69	95.4		76.3	114.5
39	51.4		41.1	61.7





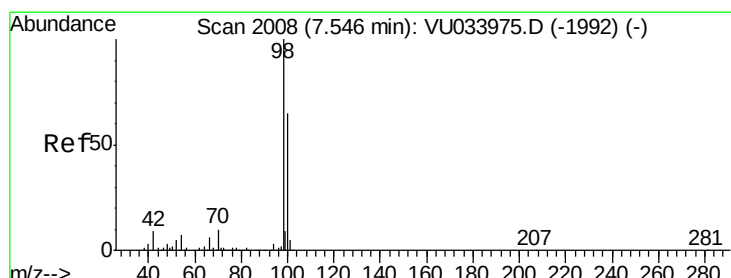
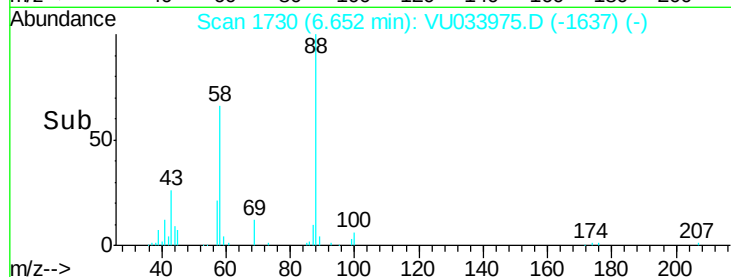
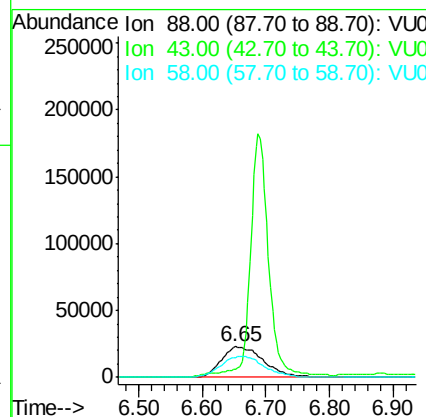
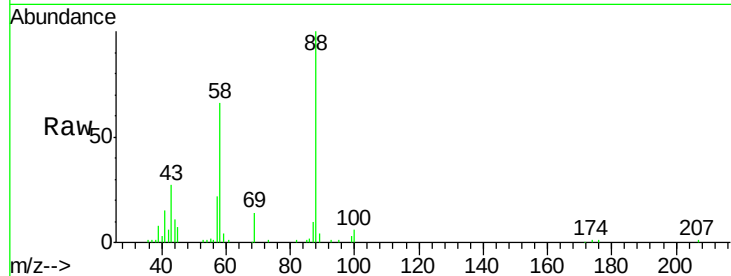
#49
1,4-Dioxane
Concen: 1095.358 ug/l
RT: 6.65 min Scan# 1730
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100	105625		
43	0.0	0.0	0.0	0.0
58	70.8	56.6	85.0	

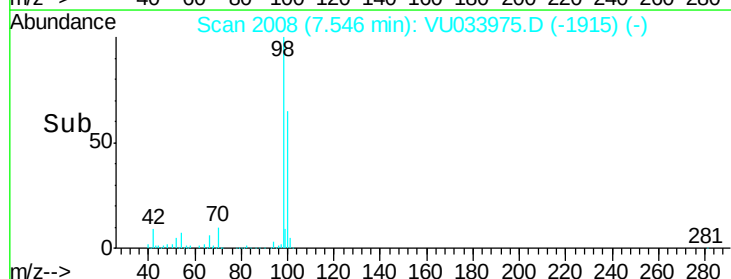
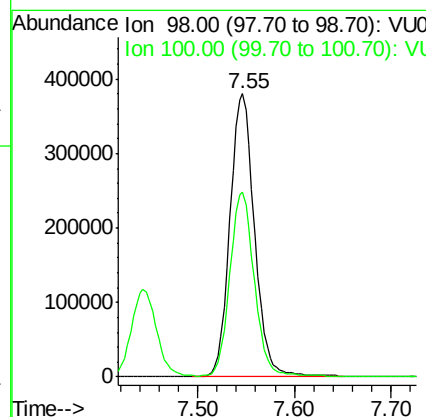
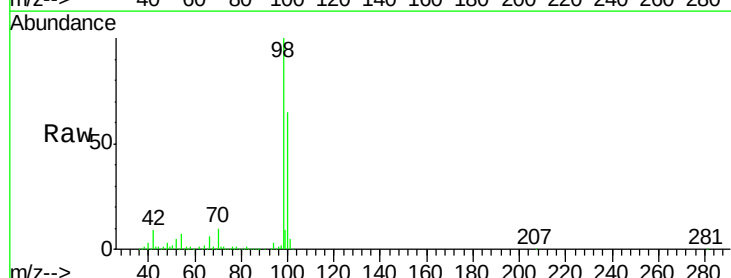
Manual Integrations
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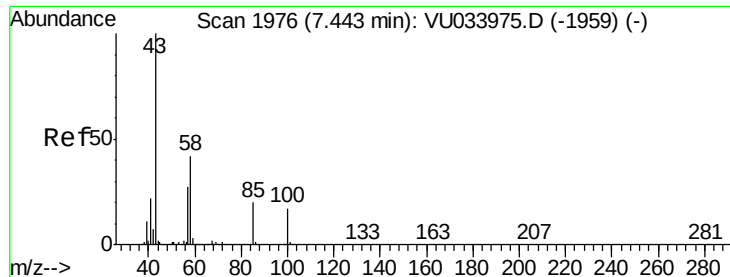
MMDadoda
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#50
Toluene-d8
Concen: 48.885 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	673050		
100	64.4	51.5	77.3	





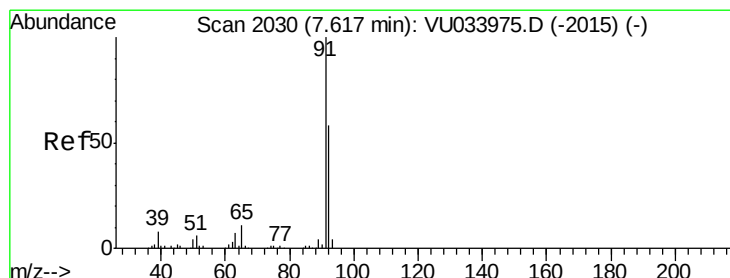
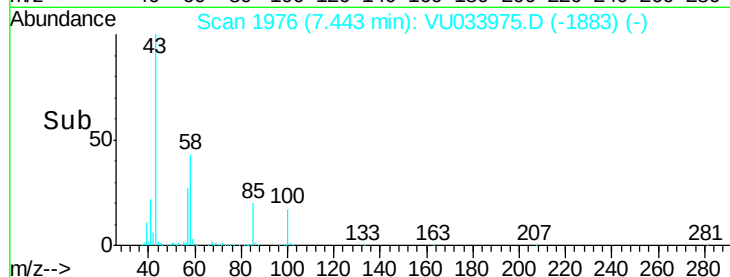
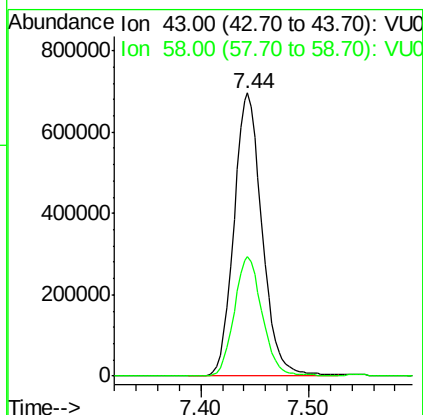
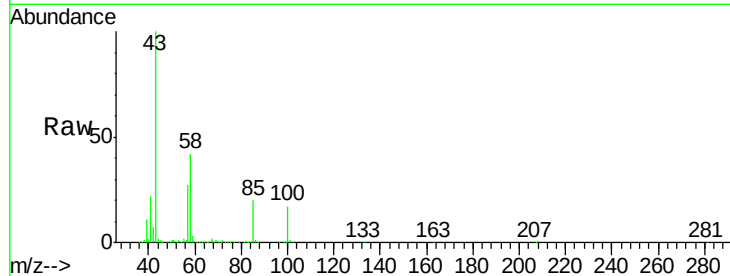
#51
 4-Methyl-2-Pentanone
 Concen: 205.510 ug/l
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion: 43 Resp: 1264860
 Ion Ratio Lower Upper
 43 100
 58 42.0 33.6 50.4

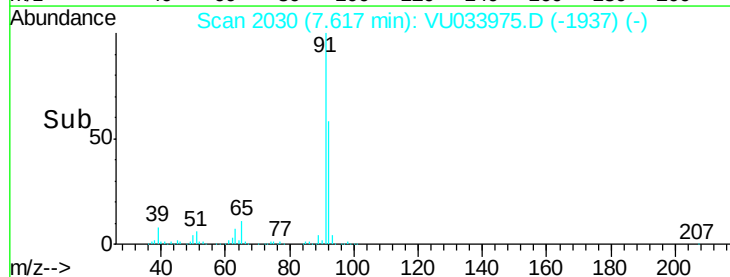
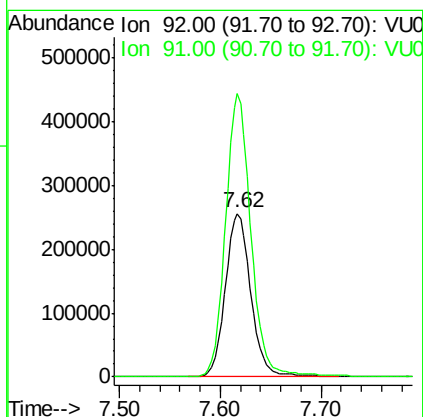
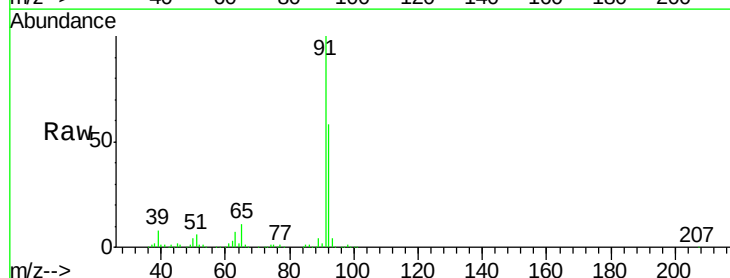
Manual Integrations
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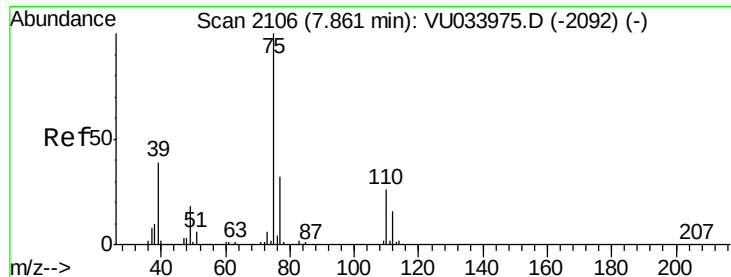
MMDadoda
 8/28/2019 9:57:50 AM



#52
 Toluene
 Concen: 48.740 ug/l
 RT: 7.62 min Scan# 2030
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion: 92 Resp: 452966
 Ion Ratio Lower Upper
 92 100
 91 173.5 138.8 208.2





#53

t-1,3-Dichloropropene

Concen: 45.718 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tot Ion: 75 Resp: 270476

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2

Instrument :

MSVOA_U

ClientSampleId :

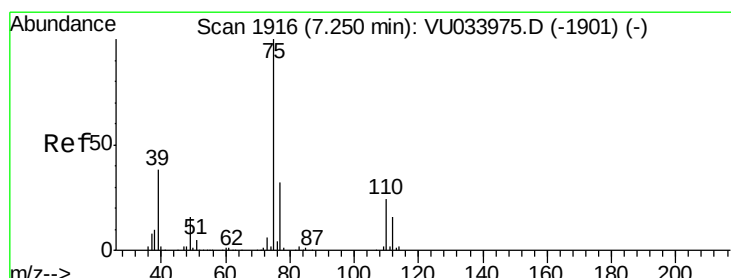
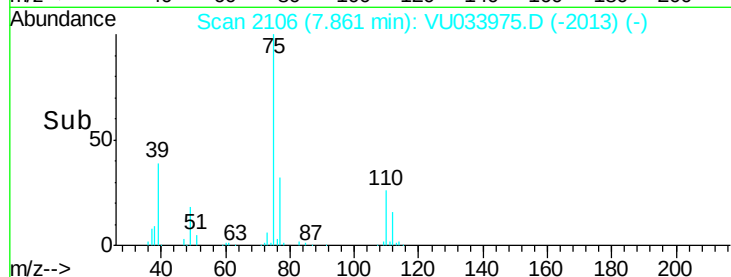
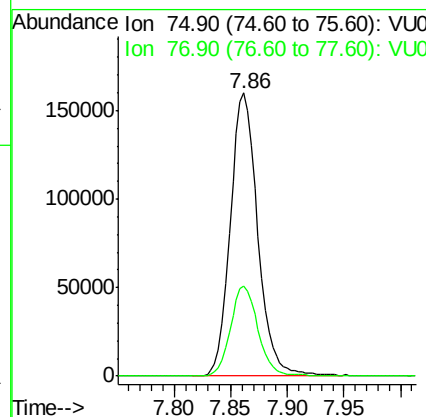
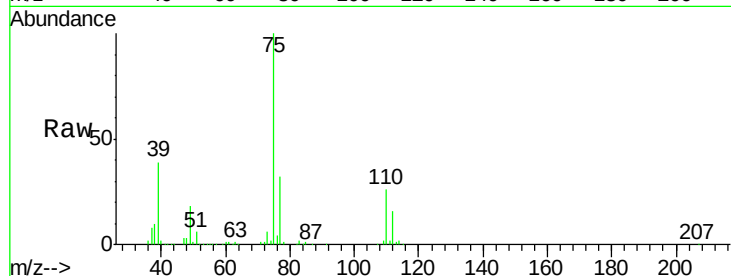
VSTDICCC050

Manual Integrations

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8/28/2019 9:57:50 AM



#54

cis-1,3-Dichloropropene

Concen: 46.136 ug/l

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

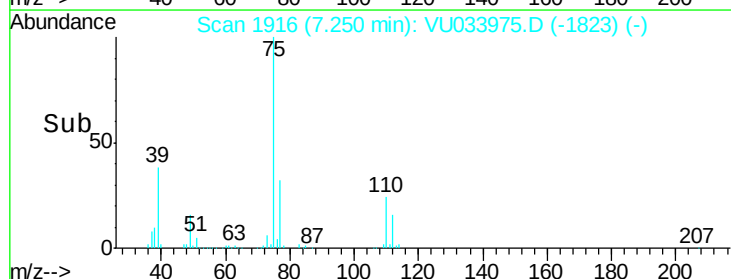
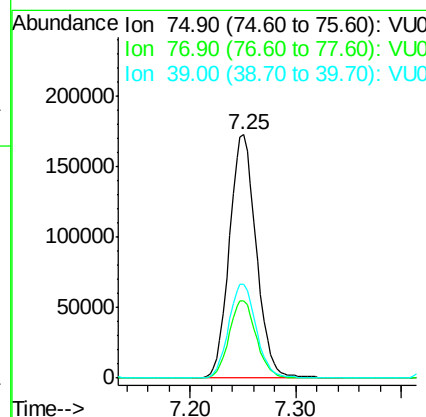
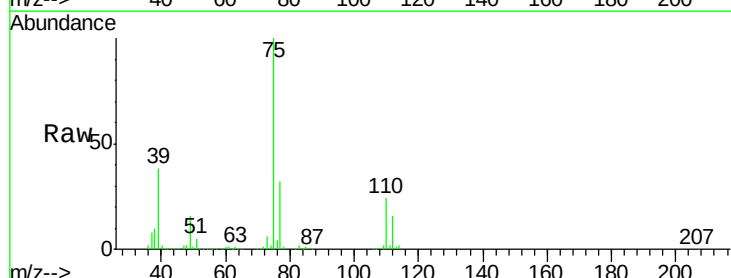
Tgt Ion: 75 Resp: 304088

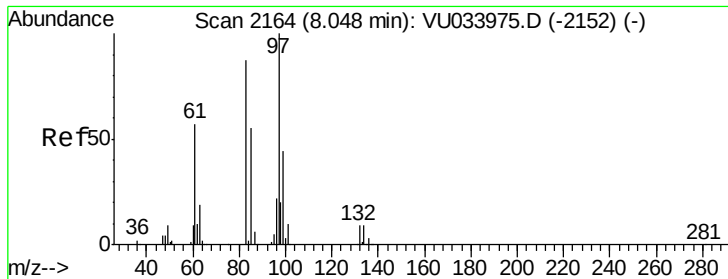
Ion Ratio Lower Upper

75 100

77 32.0 25.6 38.4

39 38.4 30.7 46.1





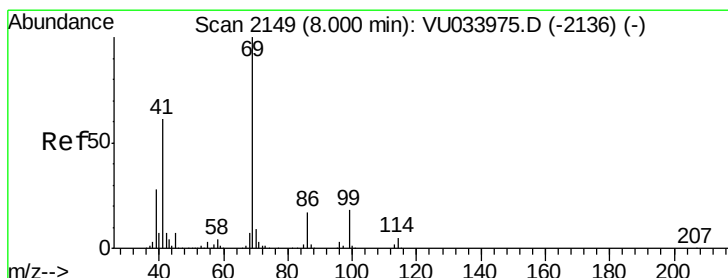
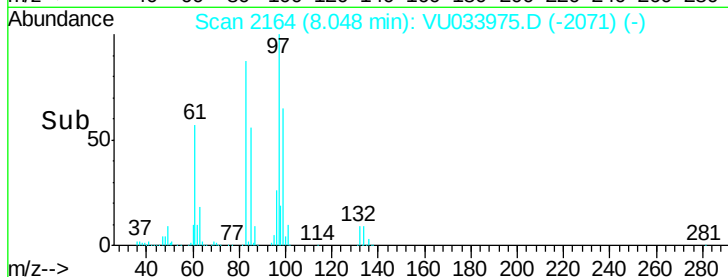
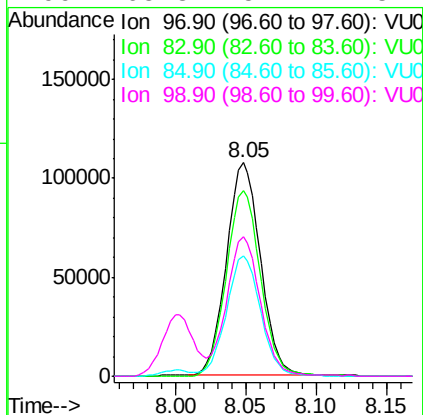
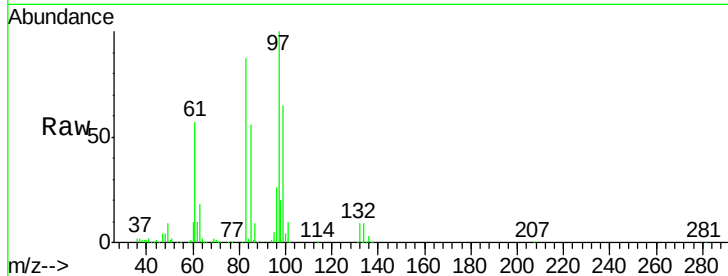
#55
 1,1,2-Trichloroethane
 Concen: 44.426 ug/l
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion:	97	Resp:	181042
Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.8	104.6
85	56.5	45.2	67.8
99	65.3	52.2	78.4

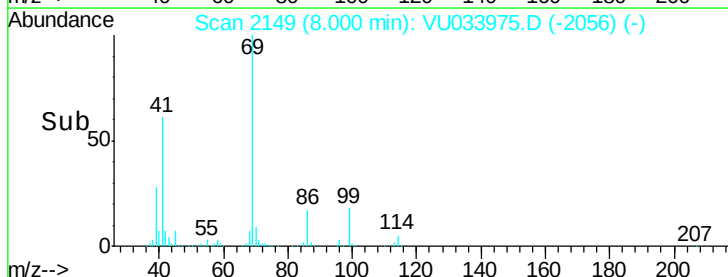
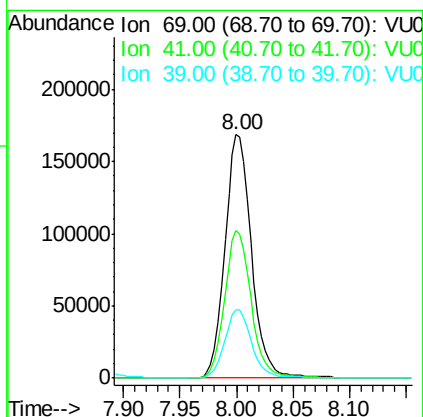
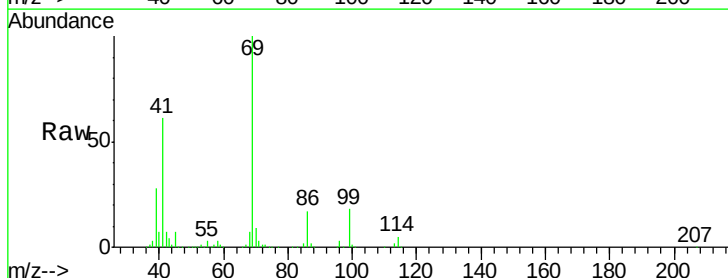
Manual Integrations
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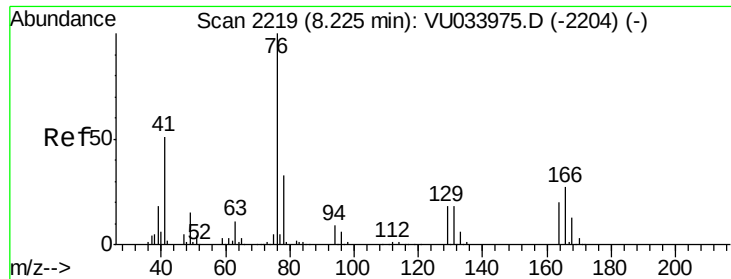
MMDadoda
 8/28/2019 9:57:50 AM



#56
 Ethyl methacrylate
 Concen: 49.879 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion:	69	Resp:	276131
Ion	Ratio	Lower	Upper
69	100		
41	60.7	48.6	72.8
39	28.0	22.4	33.6





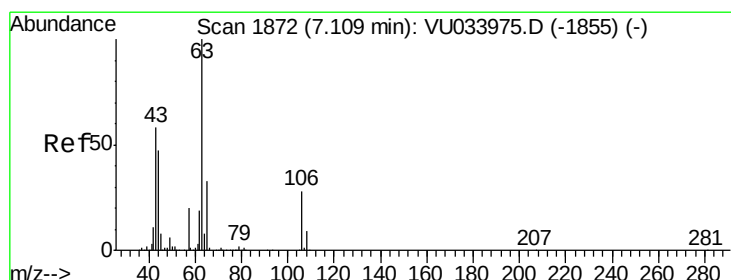
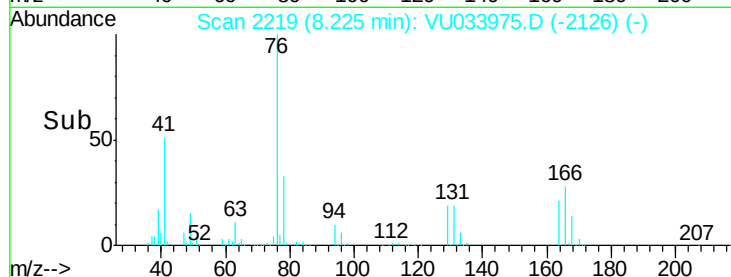
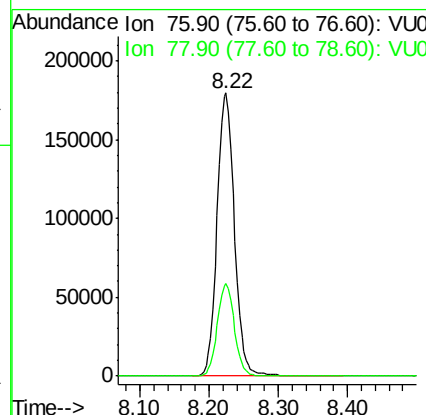
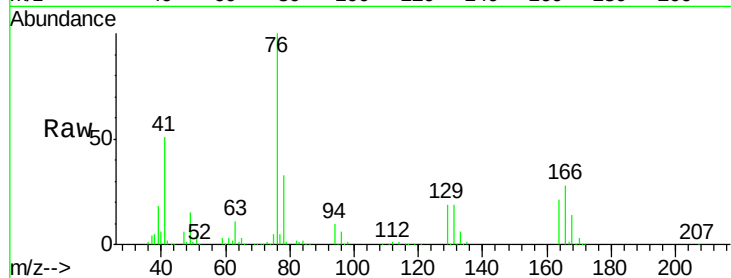
#57
 1,3-Dichloropropane
 Concen: 44.175 ug/l
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.7	38.5

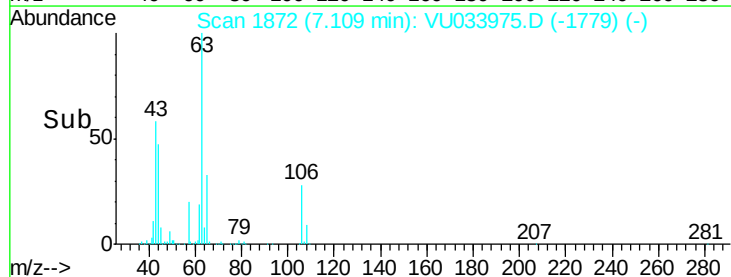
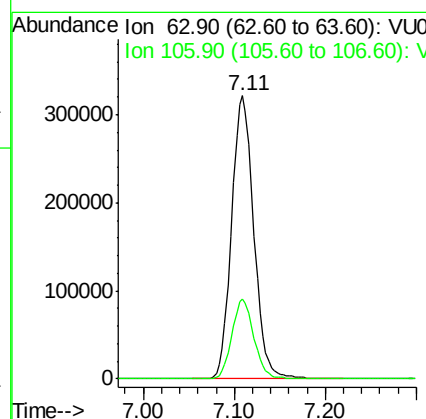
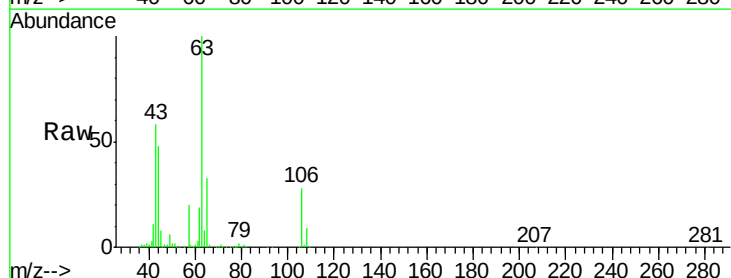
Manual Integrations
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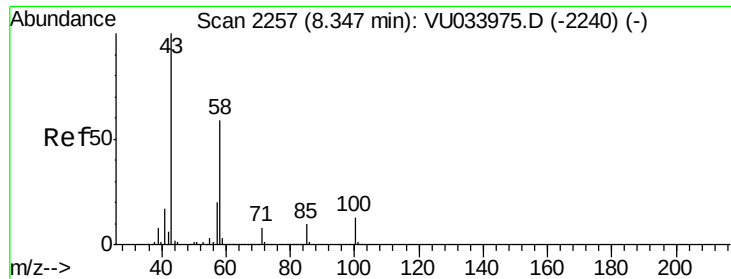
MMDadoda
 8/28/2019 9:57:50 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 276.183 ug/l
 RT: 7.11 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.4	33.6





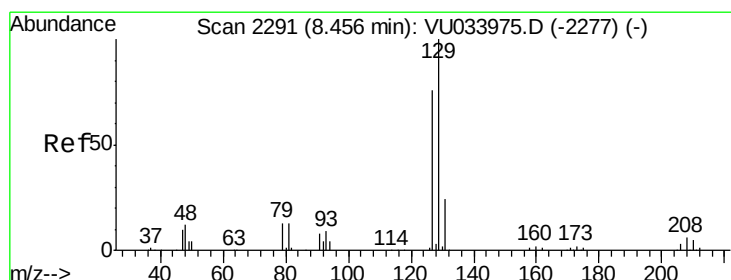
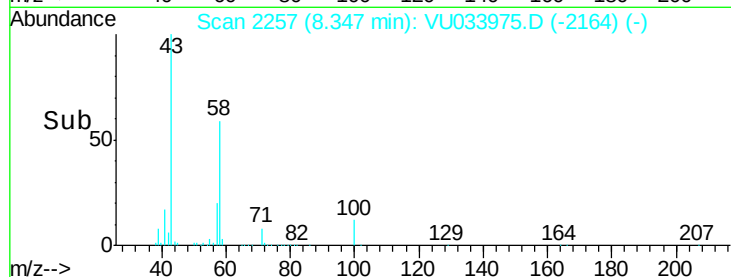
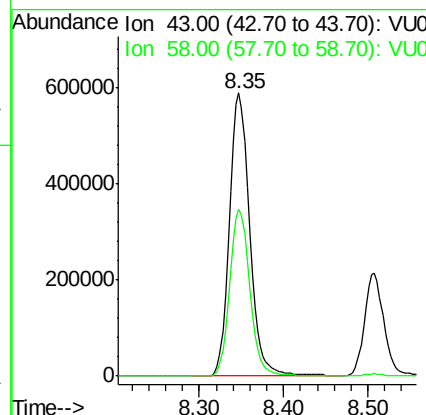
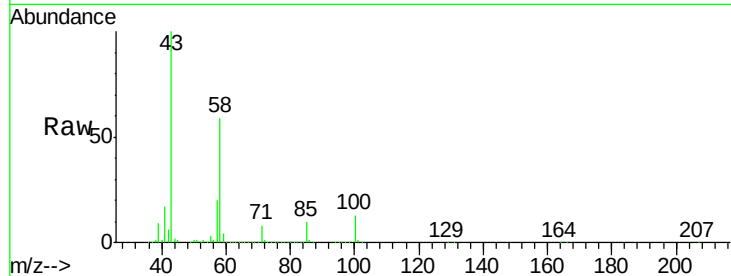
#59
2-Hexanone
Concen: 209.487 ug/l
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
58	59.1	29.5	88.6	

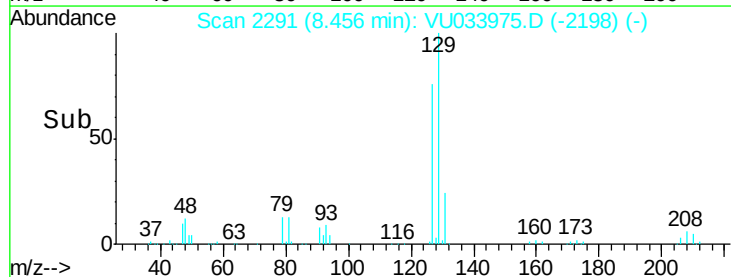
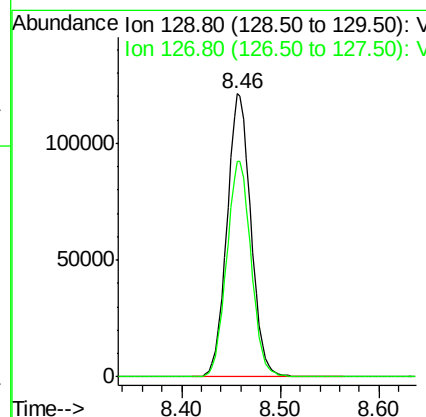
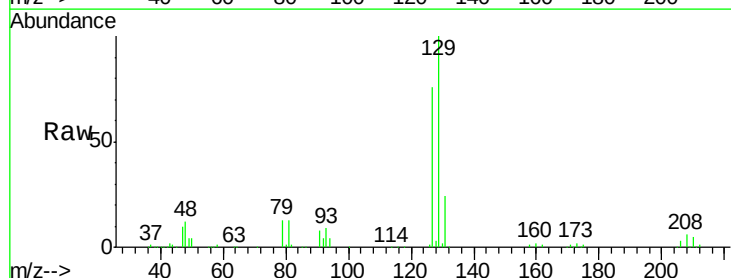
Manual Integrations
APPROVED

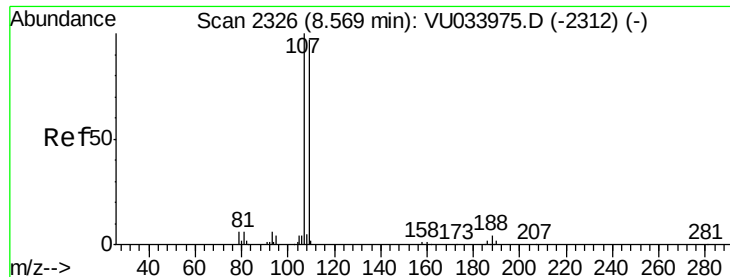
MMDadoda
8/28/2019 9:57:50 AM



#60
Dibromochloromethane
Concen: 48.079 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Resp	Lower	Upper
129	100			
127	77.6	38.8	116.4	





#61

1,2-Dibromoethane

Concen: 46.546 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 107 Resp: 197160

Ion Ratio Lower Upper

107 100

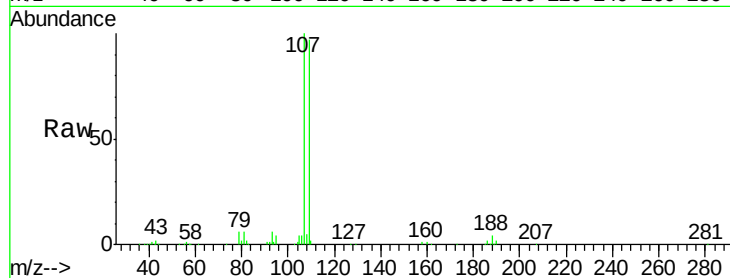
109 94.6 75.7 113.5

Manual Integrations

APPROVED

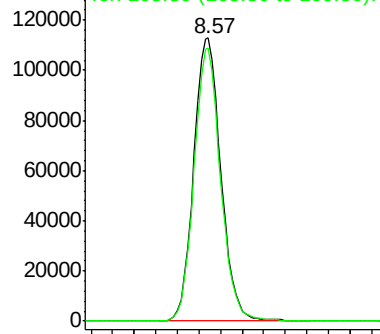
MMDadoda

8/28/2019 9:57:50 AM

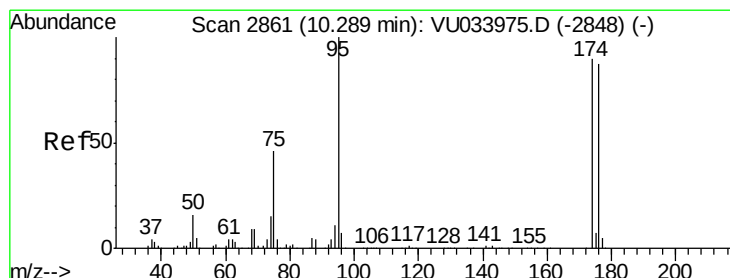
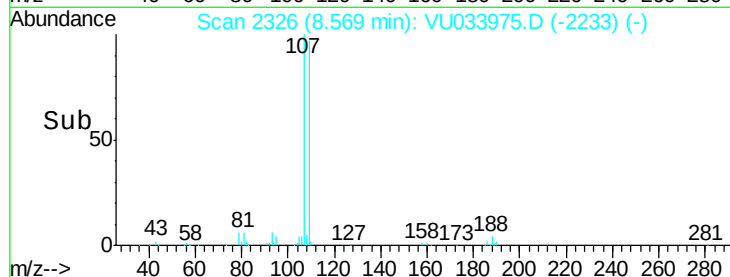


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 44.871 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

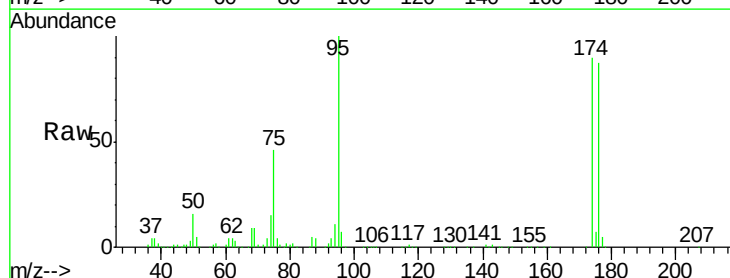
Tgt Ion: 95 Resp: 235984

Ion Ratio Lower Upper

95 100

174 91.9 0.0 183.8

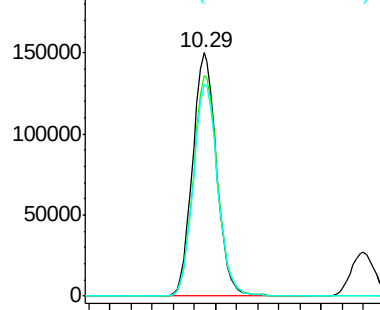
176 88.2 0.0 176.4



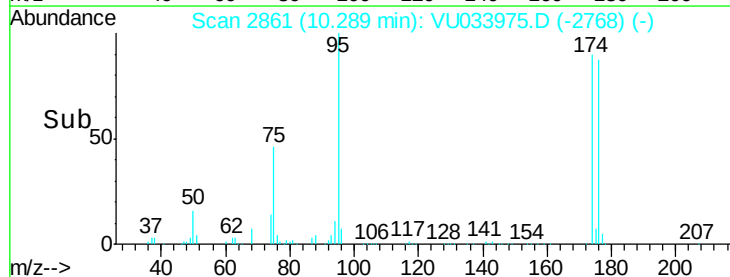
Abundance Ion 94.90 (94.60 to 95.60): VU0

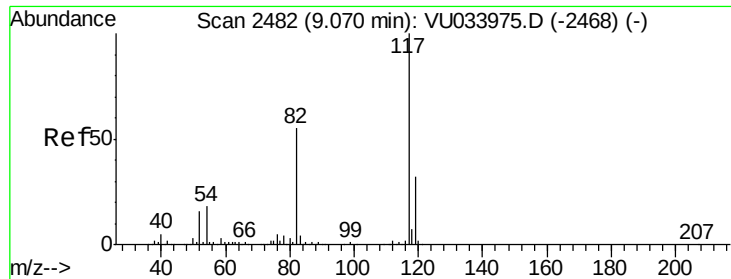
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->





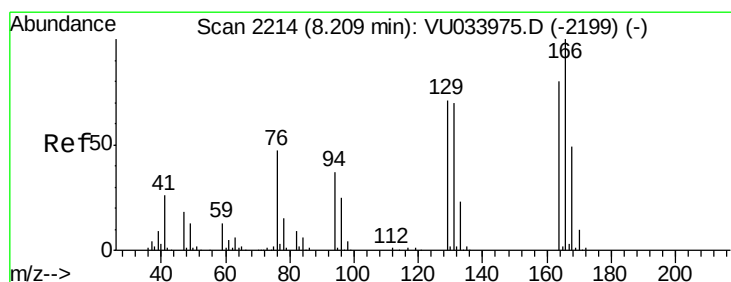
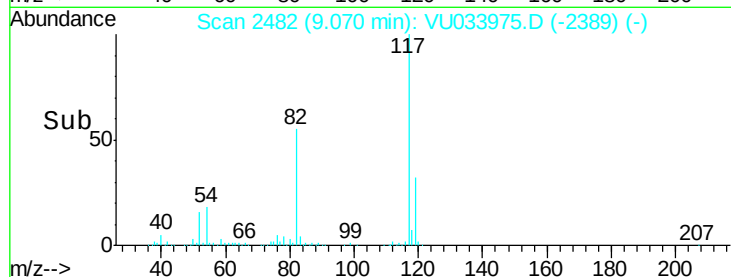
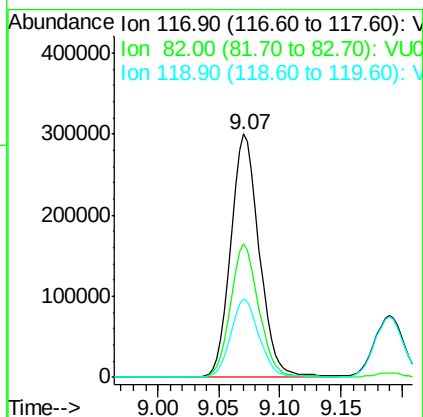
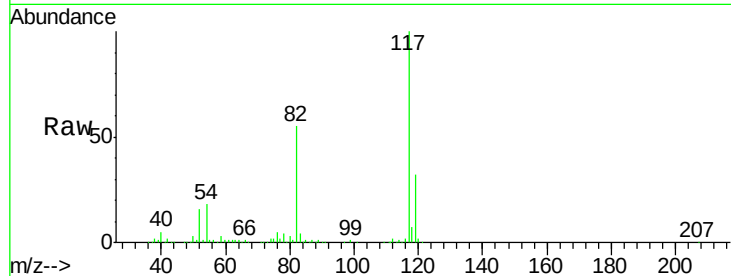
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.8	65.8
119	32.1	25.7	38.5

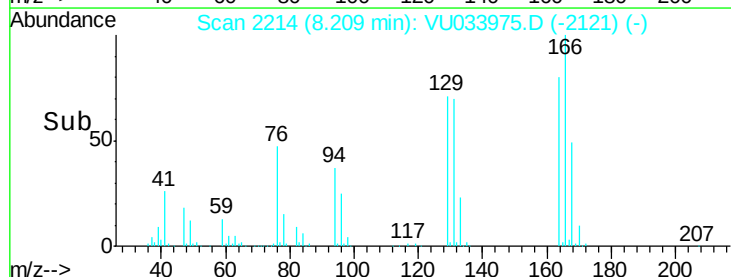
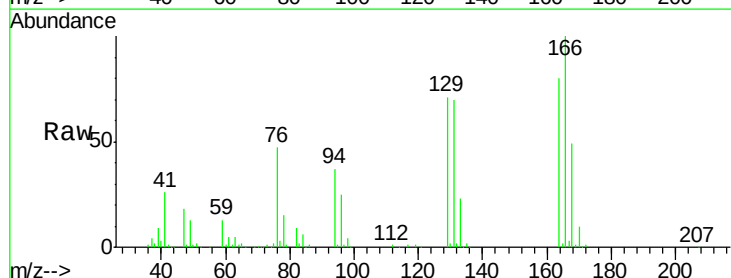
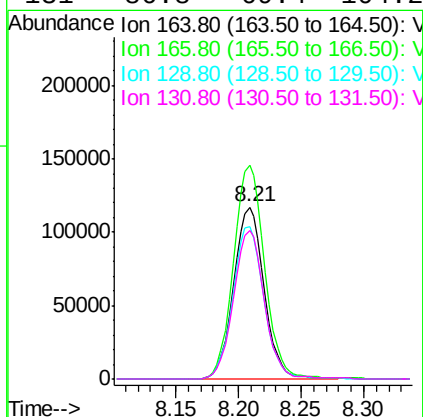
Manual Integrations
APPROVED

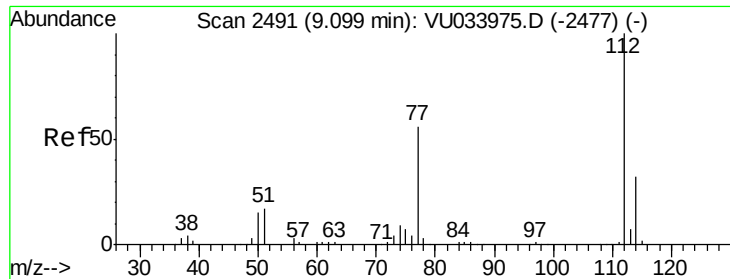
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8/28/2019 9:57:50 AM



#64
Tetrachloroethene
Concen: 54.711 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.4	99.5	149.3
129	88.6	70.9	106.3
131	86.8	69.4	104.2





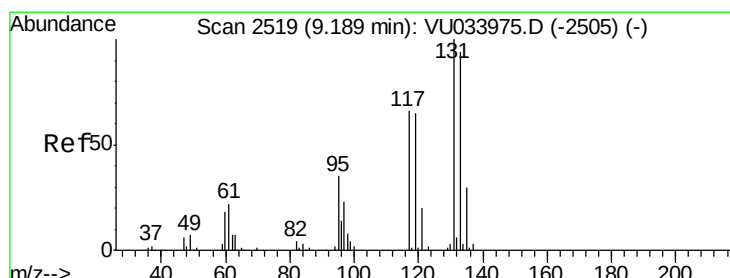
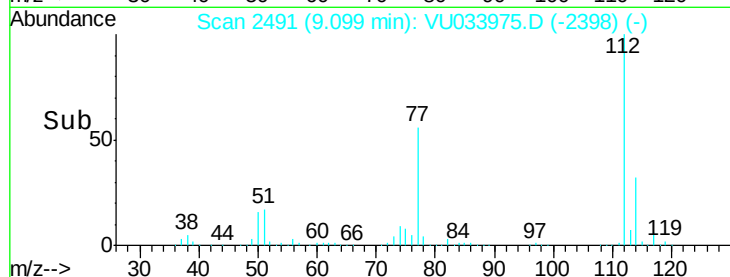
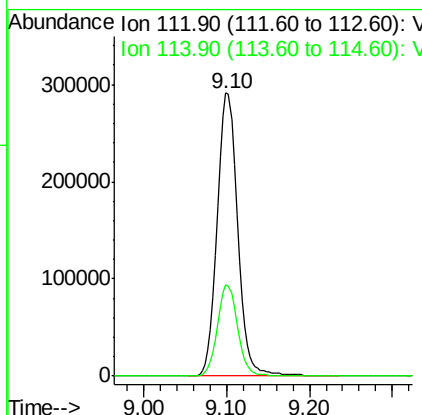
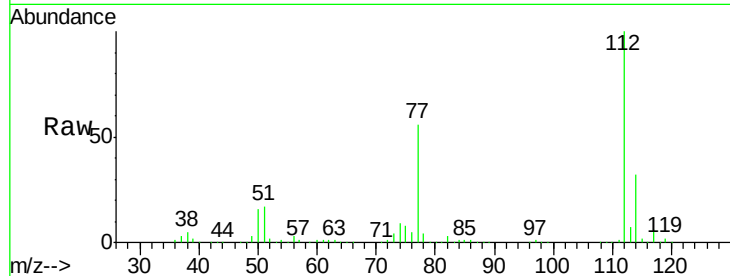
#65
Chlorobenzene
Concen: 49.196 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

Tot Ion:112 Resp: 497794
Ion Ratio Lower Upper
112 100
114 32.3 25.8 38.8

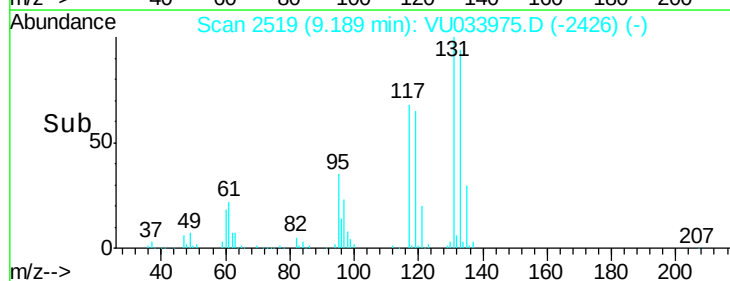
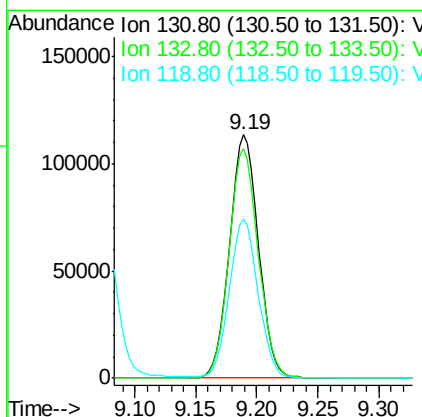
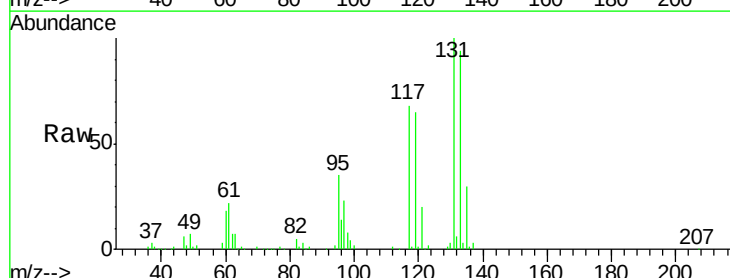
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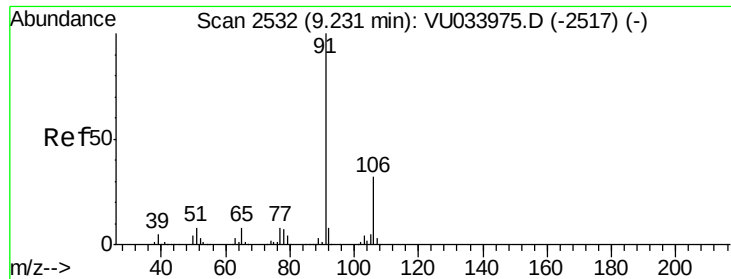
MMDadoda
8/28/2019 9:57:50 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.012 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion:131 Resp: 187836
Ion Ratio Lower Upper
131 100
133 95.3 47.6 142.9
119 65.9 33.0 98.9





#67

Ethyl Benzene

Concen: 51.462 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 850242

Ion Ratio Lower Upper

91 100

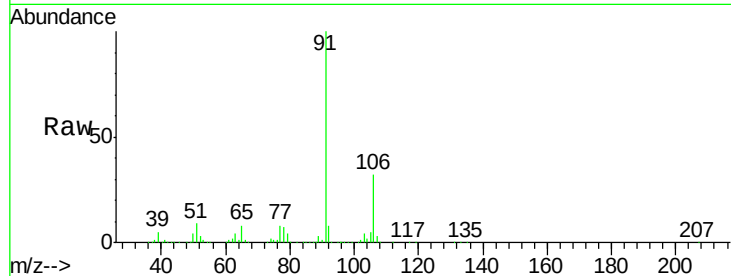
106 31.7 25.4 38.0

Manual Integrations

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MMDadoda

8/28/2019 9:57:50 AM



Abundance Ion 91.00 (90.70 to 91.70): VU033975.D (-2517) (-)

Ion 106.00 (105.70 to 106.70): VU033975.D (-2517) (-)

800000

600000

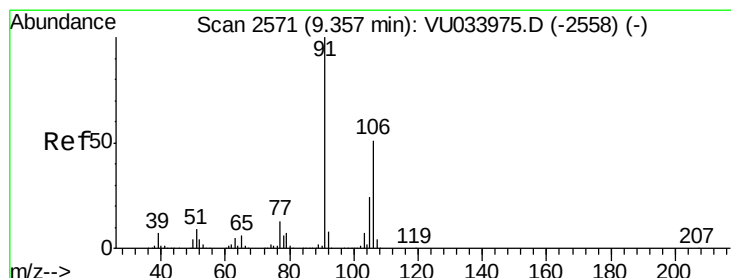
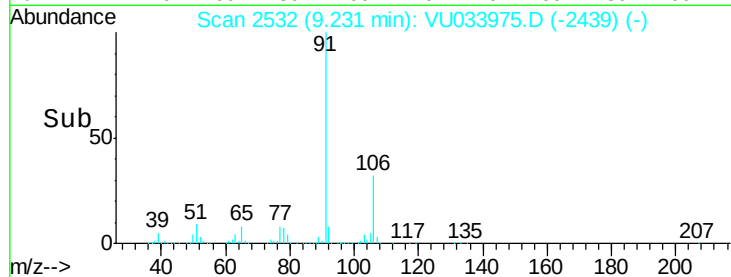
400000

200000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#68

m/p-Xylenes

Concen: 108.589 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033975.D

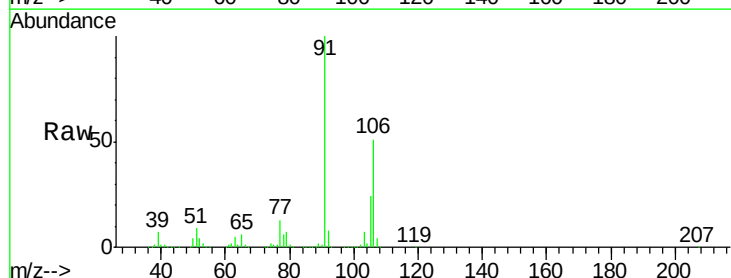
Acq: 27 Aug 2019 15:54

Tgt Ion: 106 Resp: 664128

Ion Ratio Lower Upper

106 100

91 198.0 158.4 237.6



Abundance Ion 106.00 (105.70 to 106.70): VU033975.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033975.D (-2558) (-)

800000

600000

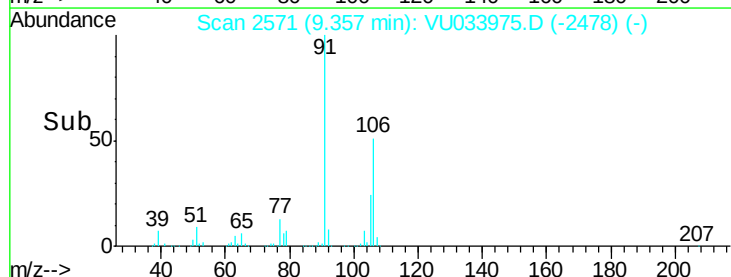
400000

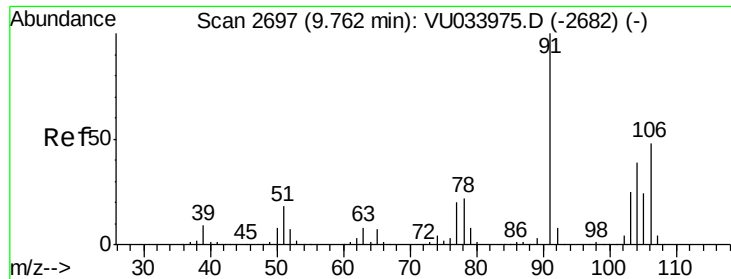
200000

0

9.30 9.40 9.50

Time-->





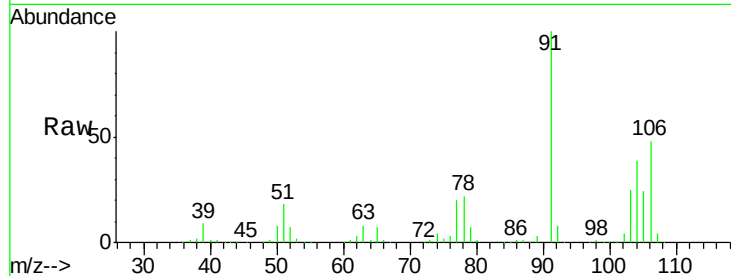
#69
o-Xylene
Concen: 53.984 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

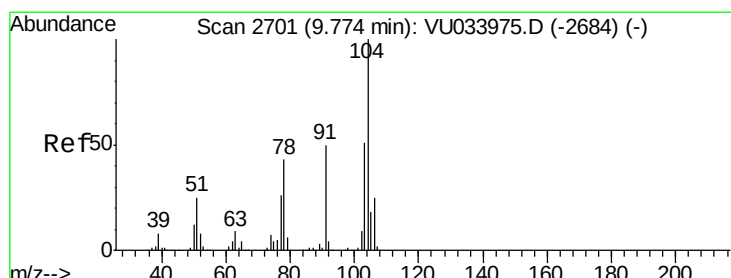
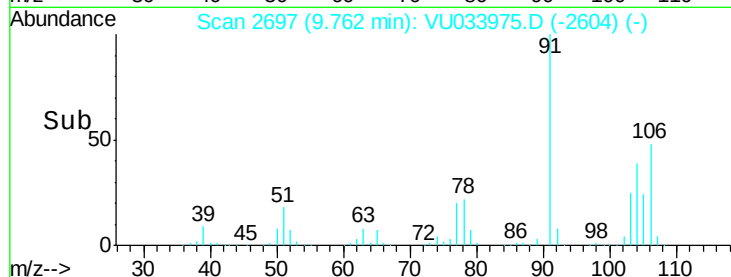
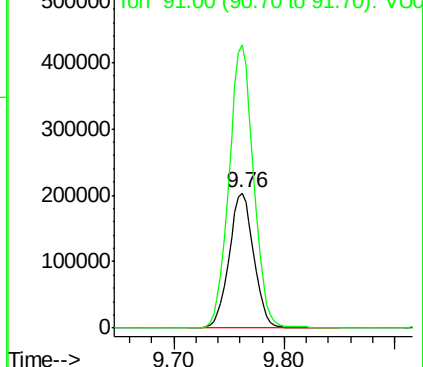
Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		315795		
91	208.9	104.5	313.3		

Manual Integrations
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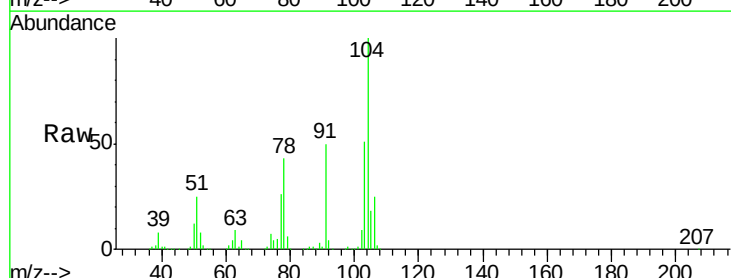


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

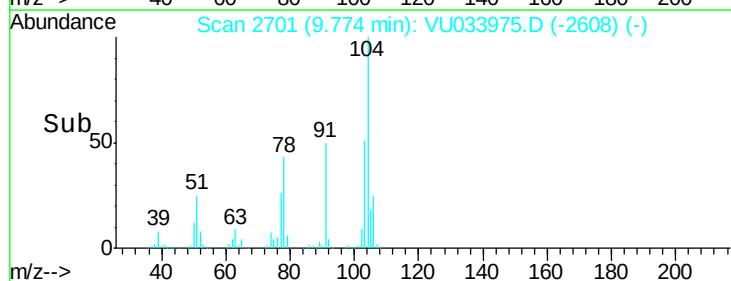
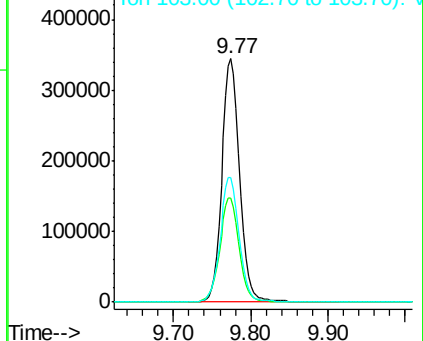


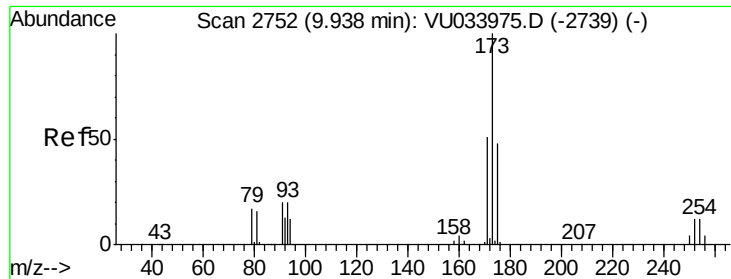
#70
Styrene
Concen: 54.647 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU033975.D
Acq: 27 Aug 2019 15:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		552219		
78	46.9	37.5	56.3		
103	54.9	43.9	65.9		



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





#71

Bromoform

Concen: 51.630 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

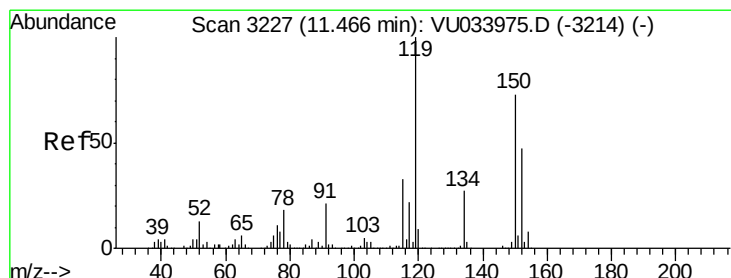
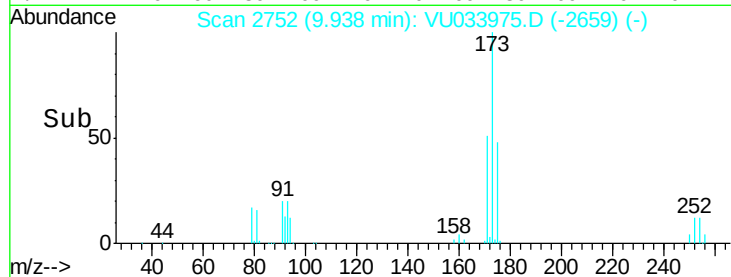
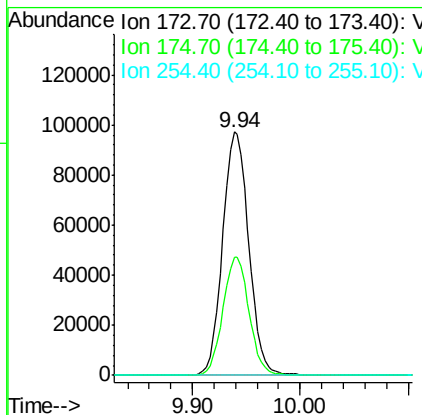
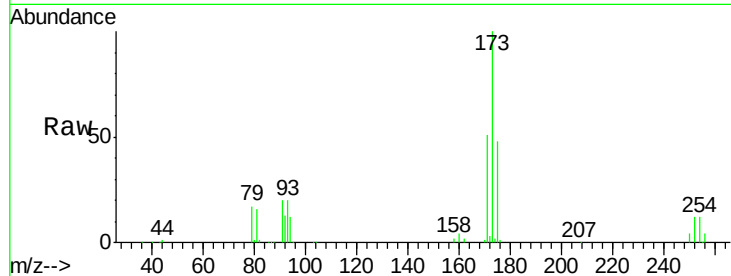
ClientSampleId :

VSTDICCC050

Tot Ion:	173	Resp:	163920
Ion Ratio	Lower	Upper	
173	100		
175	48.6	24.3	72.9
254	0.1	0.1	0.1

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

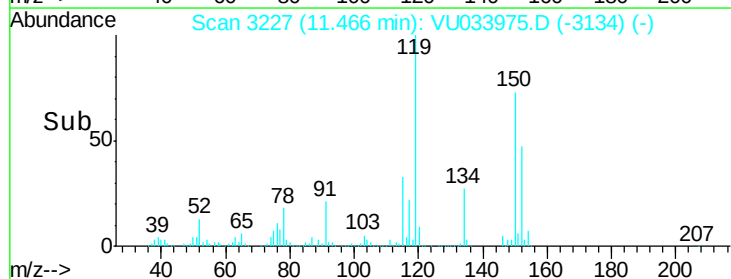
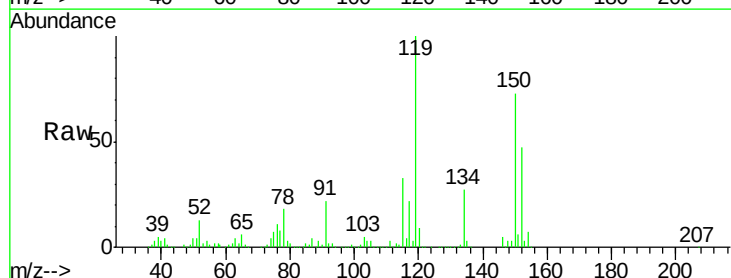
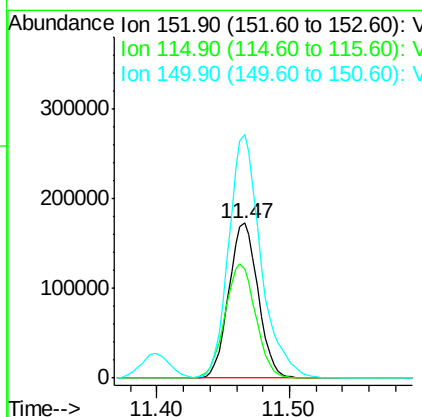
RT: 11.47 min Scan# 3227

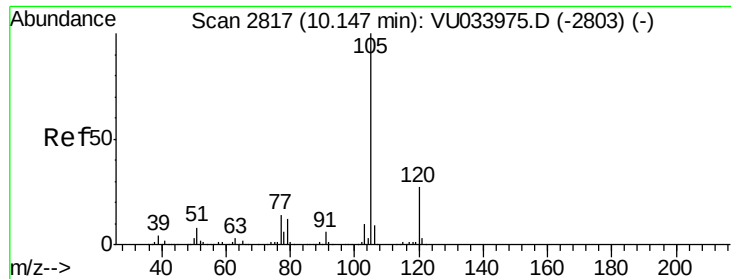
Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion:	152	Resp:	265279
Ion Ratio	Lower	Upper	
152	100		
115	77.1	38.6	115.7
150	171.9	0.0	343.8





#73

Isopropylbenzene

Concen: 52.234 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 105 Resp: 854332

Ion Ratio Lower Upper

105 100

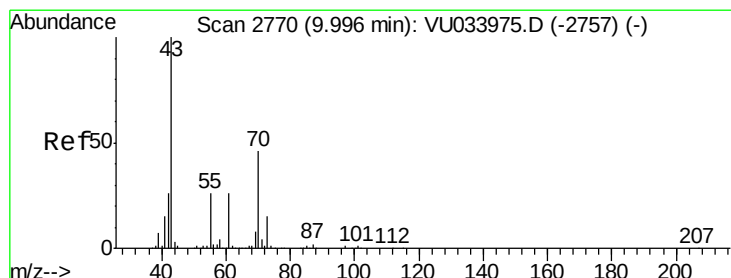
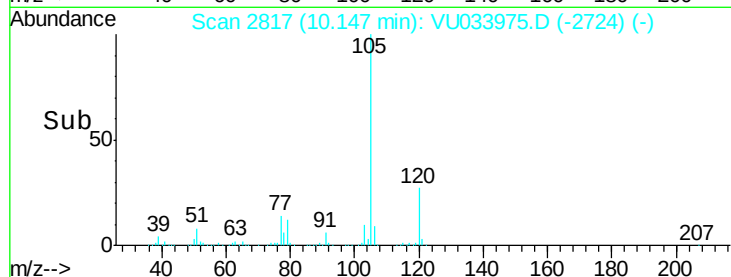
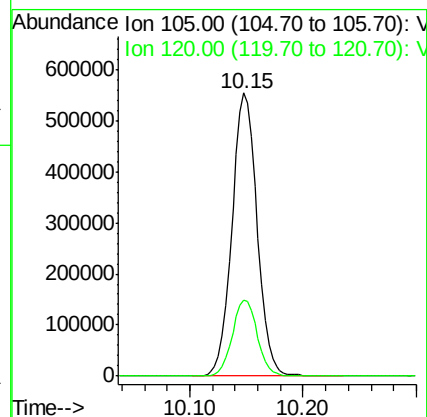
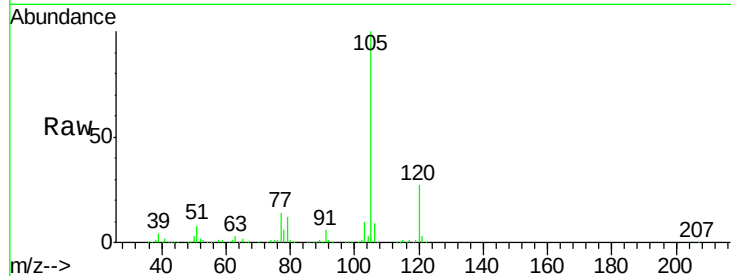
120 27.0 13.5 40.5

Manual Integrations

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8/28/2019 9:57:50 AM



#74

N-ethyl acetate

Concen: 48.937 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion: 43 Resp: 336110

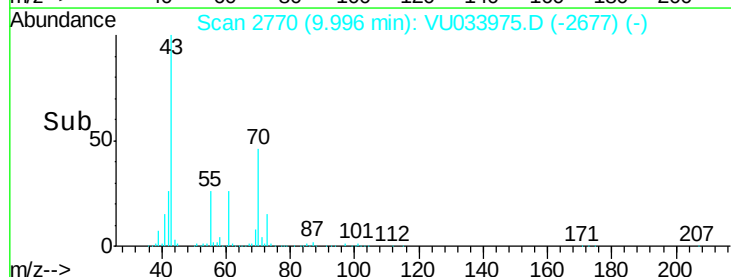
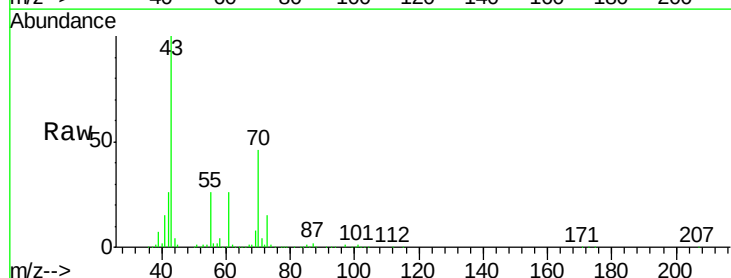
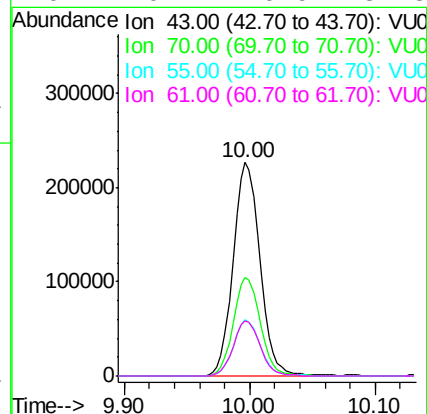
Ion Ratio Lower Upper

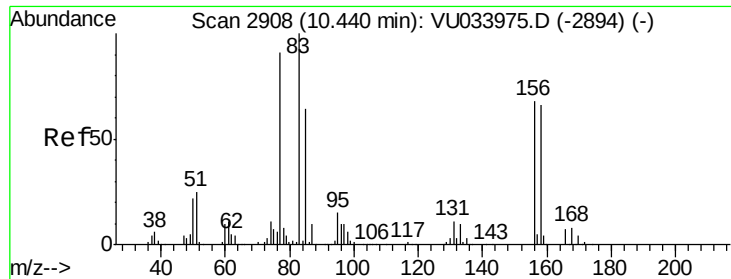
43 100

70 46.7 37.4 56.0

55 26.2 21.0 31.4

61 26.1 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 42.138 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

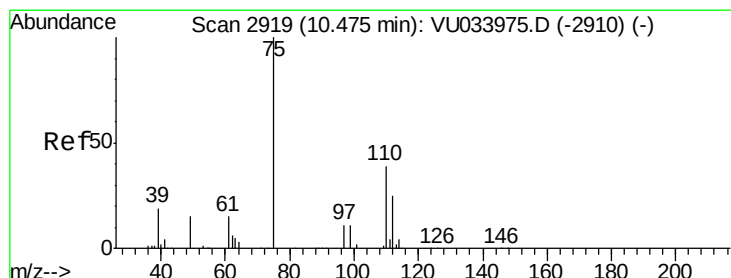
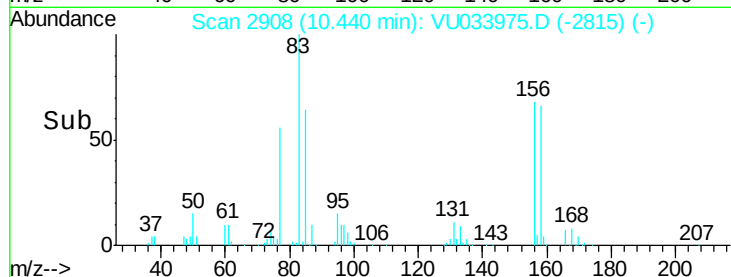
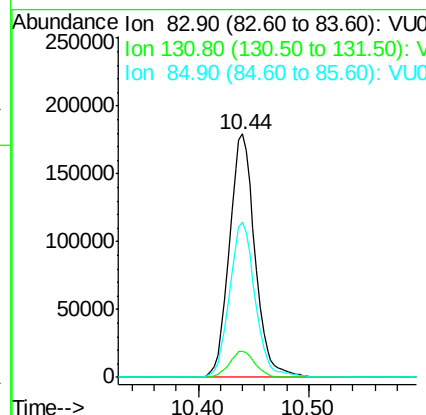
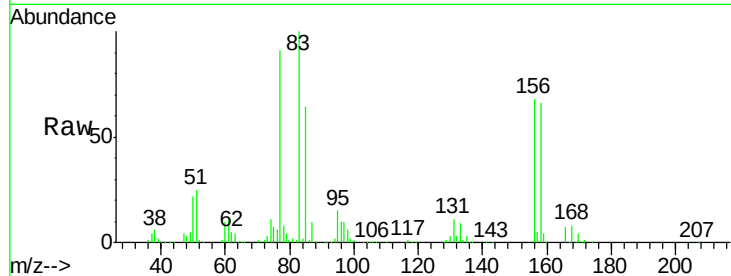
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	288553
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.3	16.1
85	64.0	32.0	96.0

Manual Integrations
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8/28/2019 9:57:50 AM



#76

1,2,3-Trichloropropane

Concen: 42.614 ug/l m

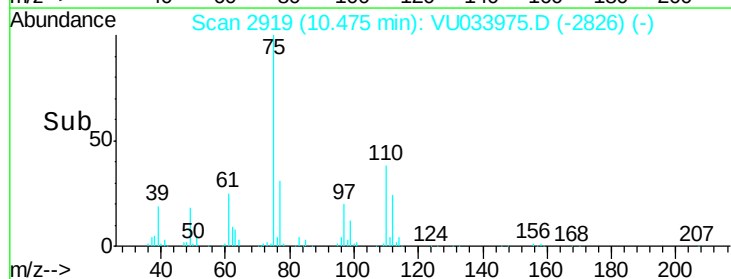
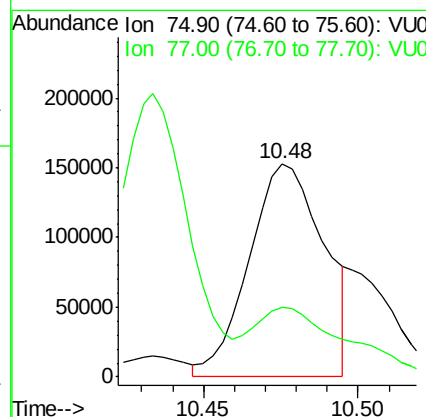
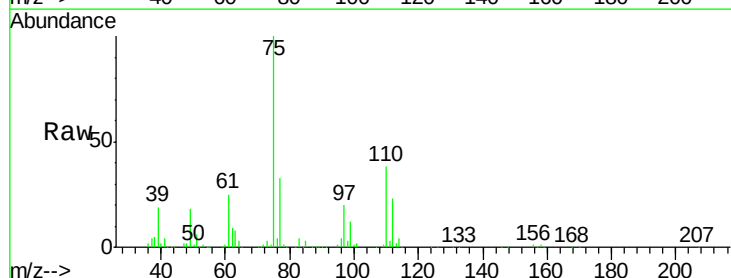
RT: 10.48 min Scan# 2919

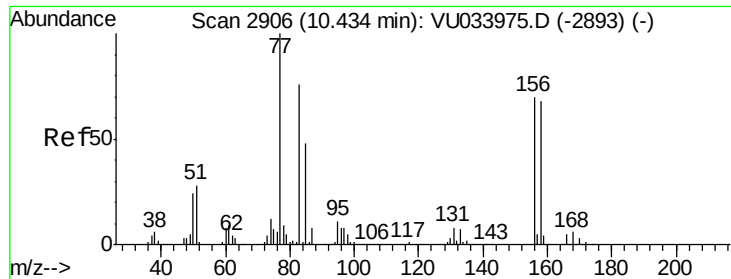
Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion:	75	Resp:	256904
Ion Ratio	Lower	Upper	
75	100		
77	42.0	21.0	63.0





#77

Bromobenzene

Concen: 52.203 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

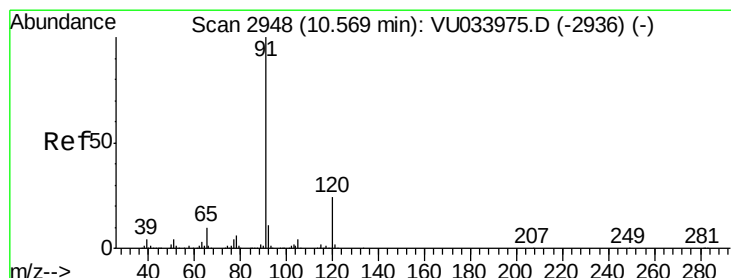
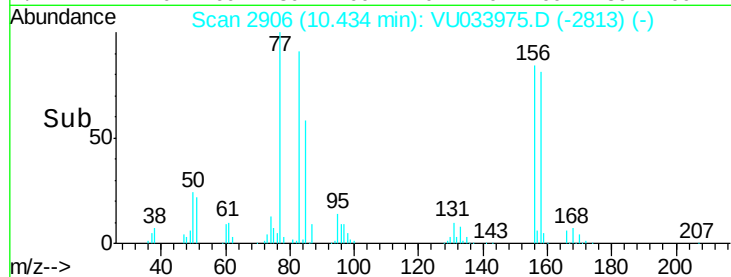
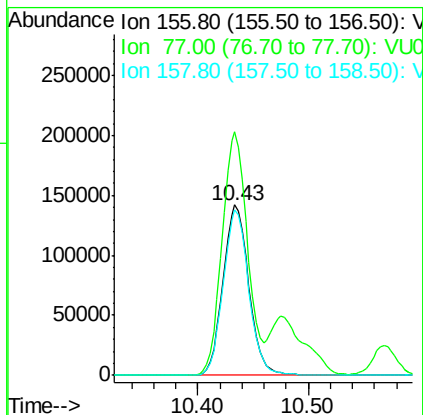
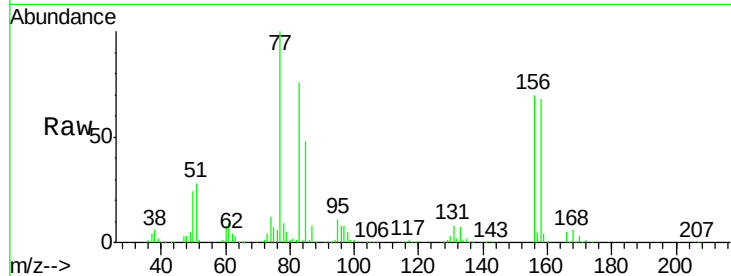
ClientSampleId :

VSTDICCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	140.7	70.3	211.1
158	96.5	48.3	144.8

Manual Integrations
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#78

n-propylbenzene

Concen: 50.390 ug/l

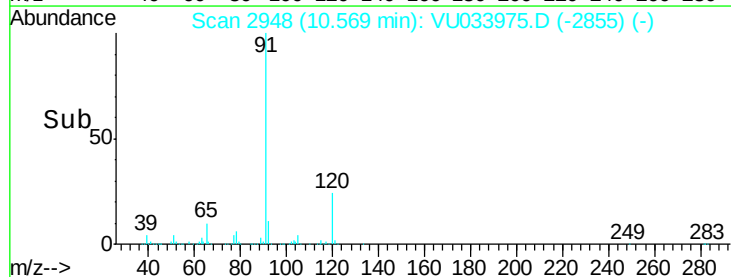
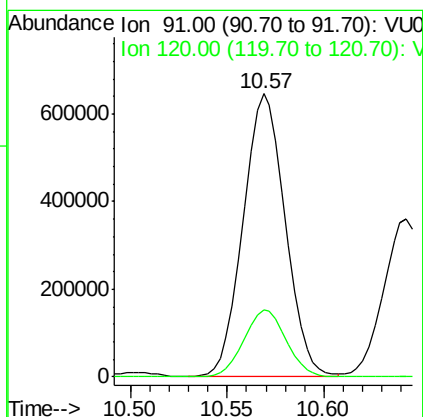
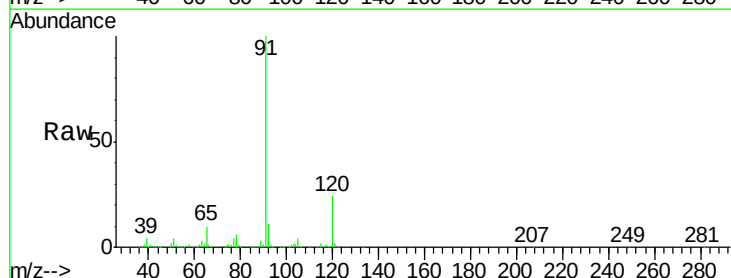
RT: 10.57 min Scan# 2948

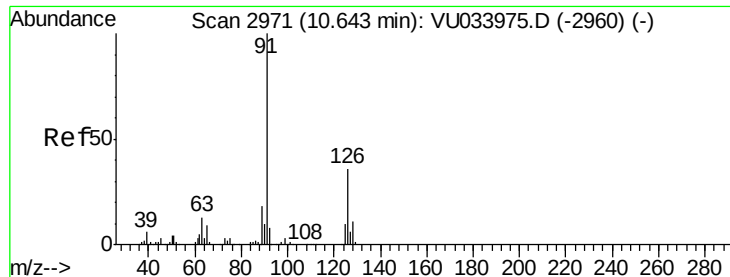
Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	12.0	36.0





#79

2-Chlorotoluene

Concen: 49.087 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 569744

Ion Ratio Lower Upper

91 100

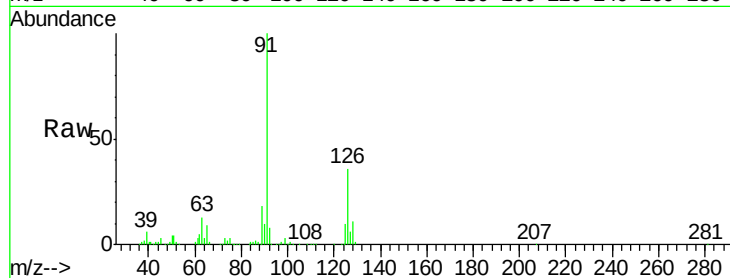
126 35.7 17.8 53.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU033975.D (-2960) (-)

Ion 125.90 (125.60 to 126.60): VU033975.D (-2960) (-)

600000

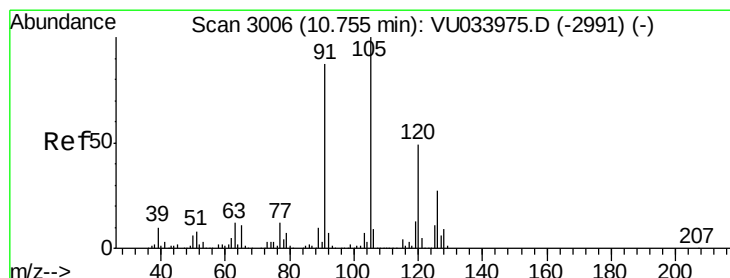
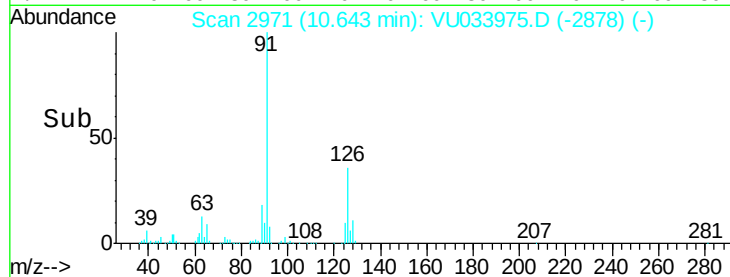
400000

200000

0

10.60 10.65 10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 53.196 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU033975.D

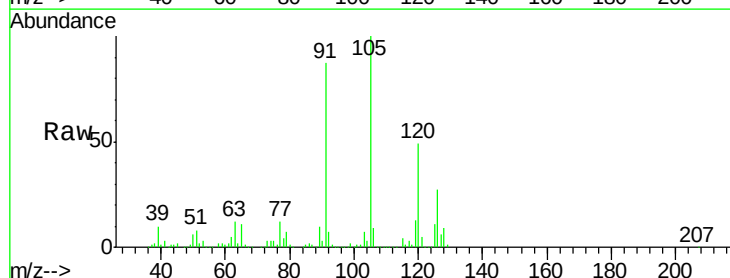
Acq: 27 Aug 2019 15:54

Tgt Ion: 105 Resp: 744394

Ion Ratio Lower Upper

105 100

120 49.1 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): VU033975.D (-2991) (-)

Ion 120.00 (119.70 to 120.70): VU033975.D (-2991) (-)

500000

400000

300000

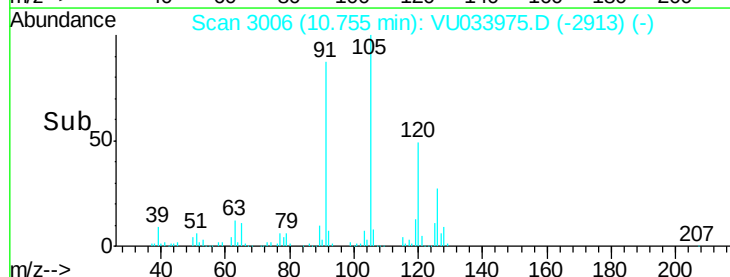
200000

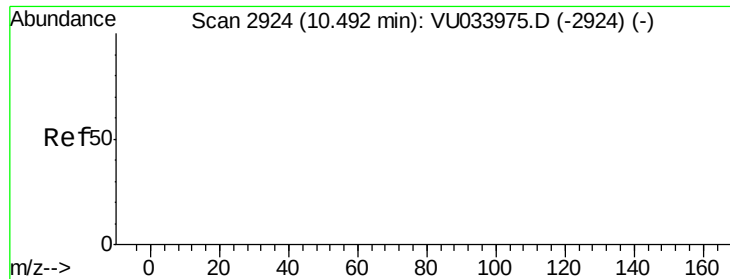
100000

0

10.70 10.80 10.90

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 43.893 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU033975.D

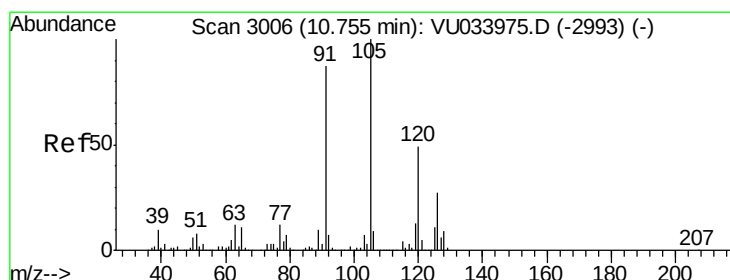
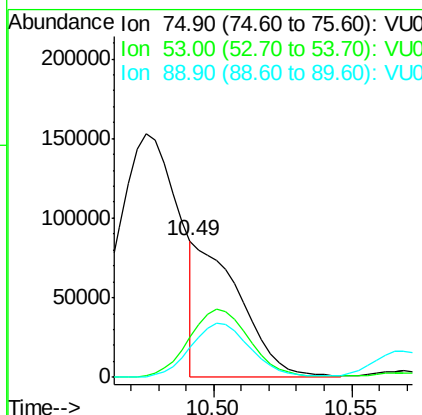
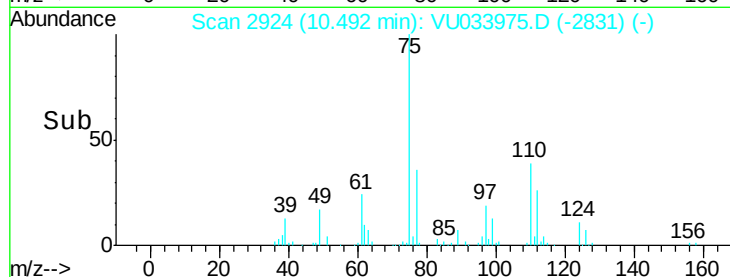
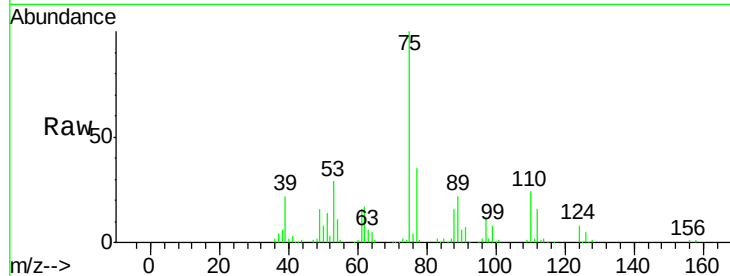
Acq: 27 Aug 2019 15:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC050

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

Manual Integrations
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#82

4-Chlorotoluene

Concen: 48.945 ug/l

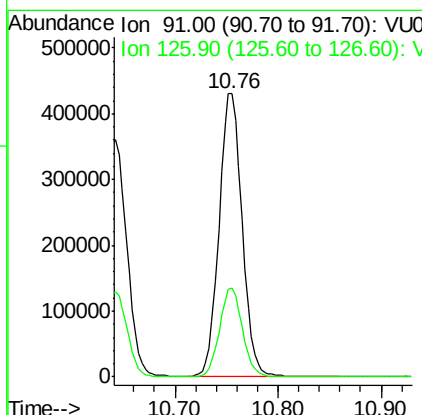
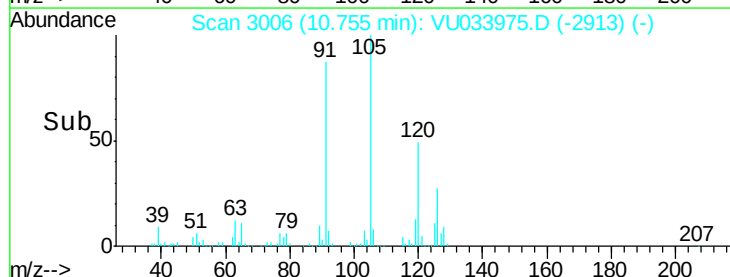
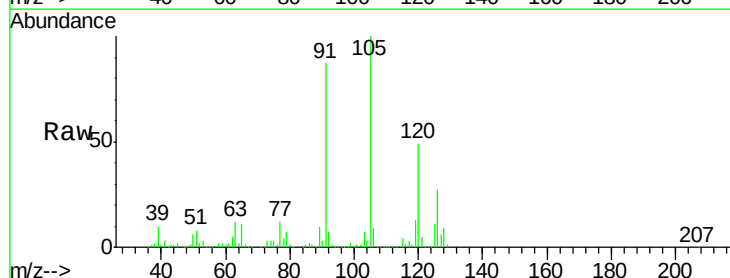
RT: 10.76 min Scan# 3006

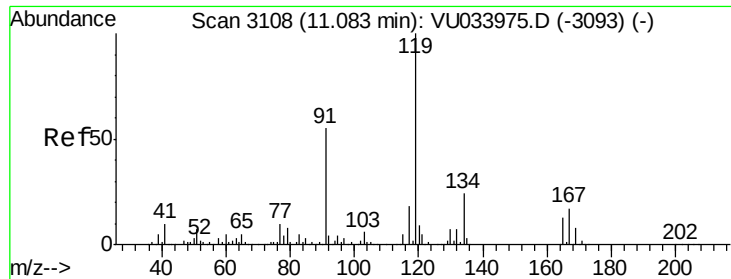
Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.4	46.4





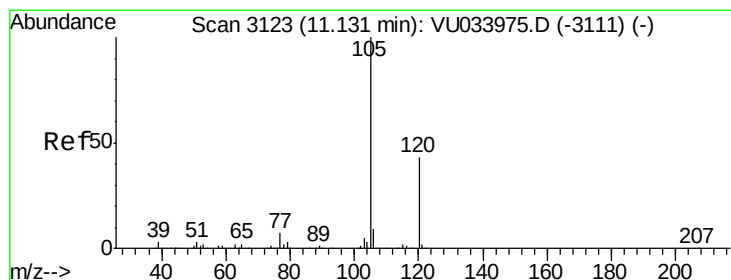
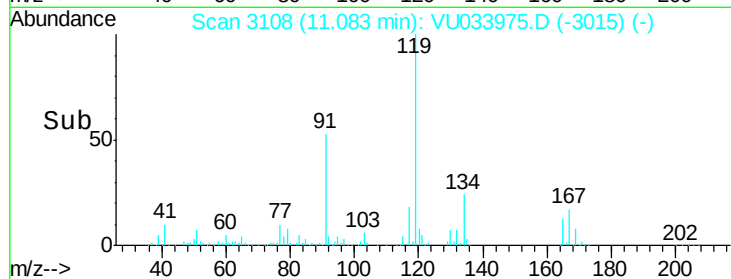
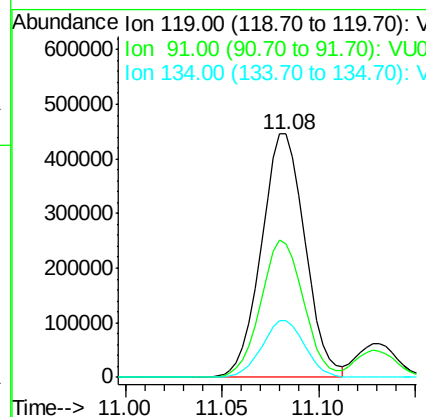
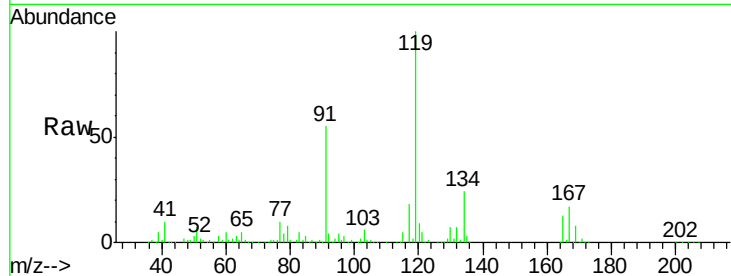
#83
 tert-Butylbenzene
 Concen: 53.350 ug/l
 RT: 11.08 min Scan# 3108
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	55.2	27.6	82.8
134	23.1	11.6	34.7

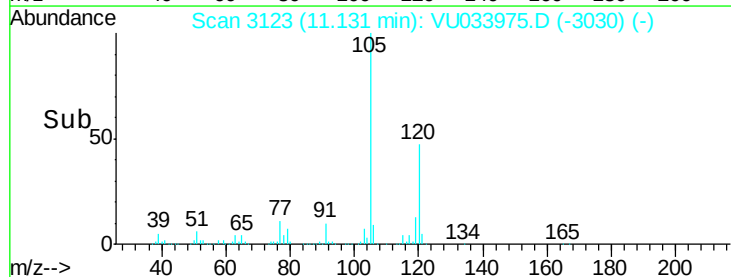
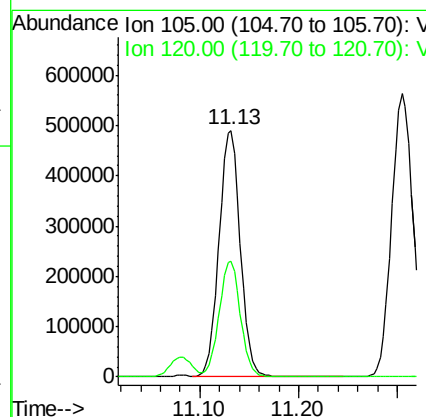
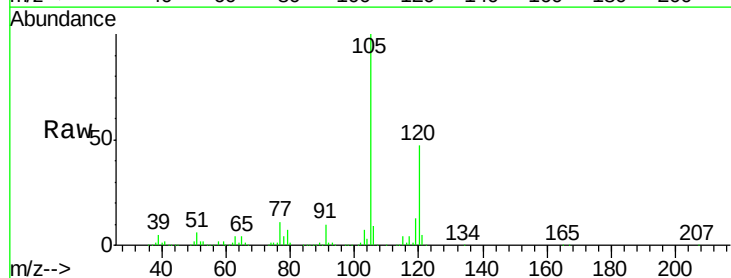
Manual Integrations
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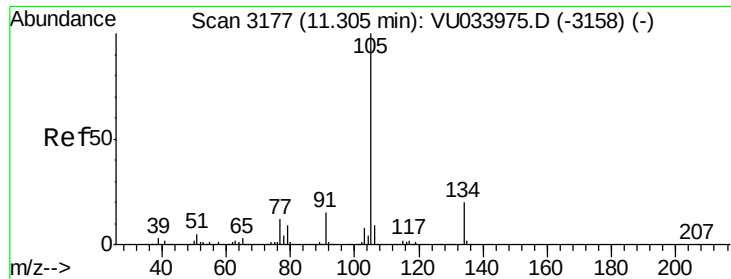
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#84
 1,2,4-Trimethylbenzene
 Concen: 54.486 ug/l
 RT: 11.13 min Scan# 3123
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.3	69.9





#85

sec-Butylbenzene

Concen: 52.174 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 854066

Ion Ratio Lower Upper

105 100

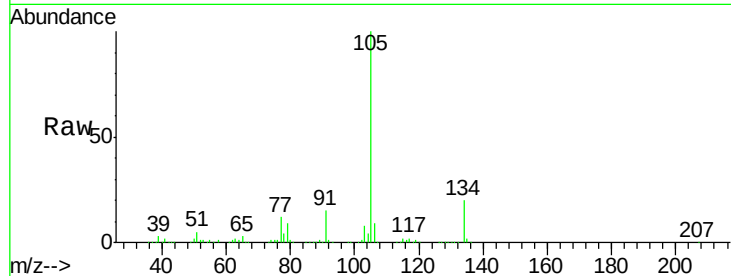
134 20.4 10.2 30.6

Manual Integrations

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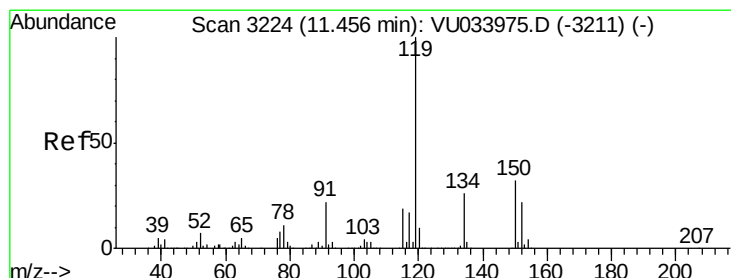
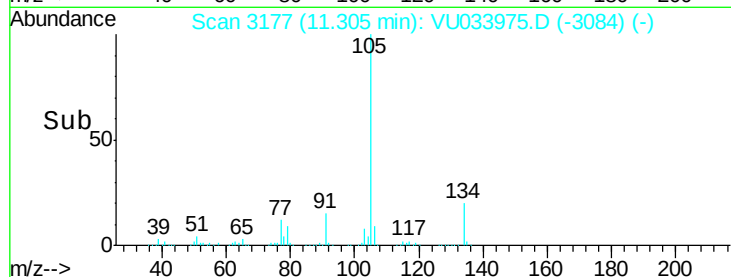
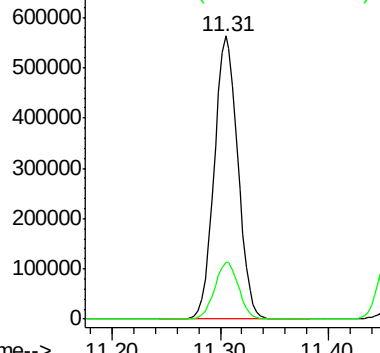
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 54.345 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

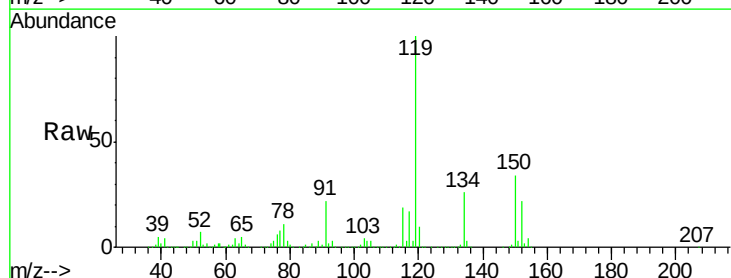
Tgt Ion:119 Resp: 810816

Ion Ratio Lower Upper

119 100

134 25.9 13.0 38.9

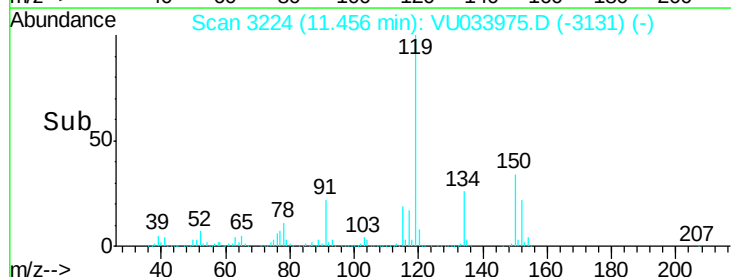
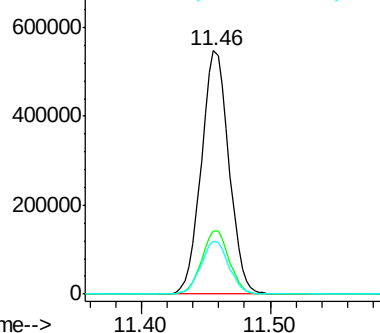
91 21.9 10.9 32.9

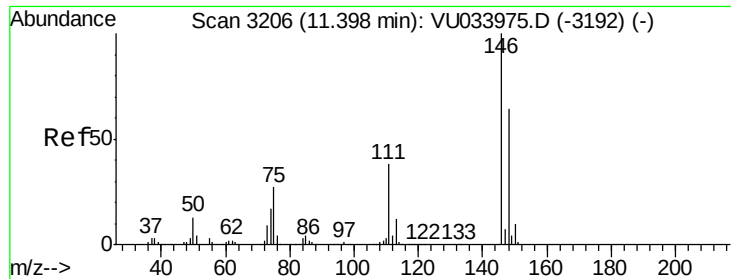


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU





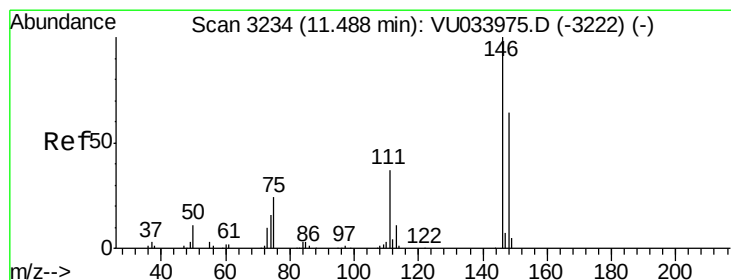
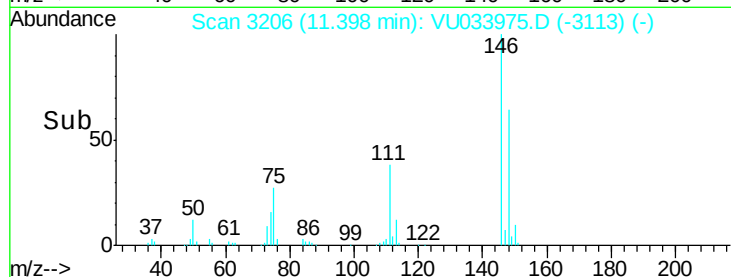
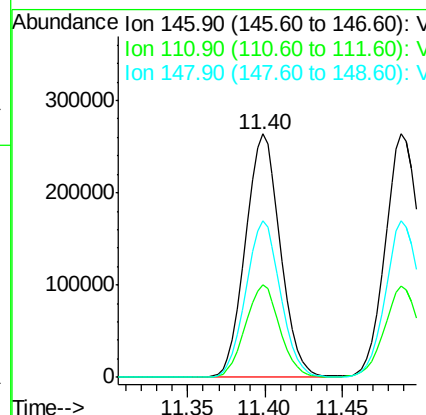
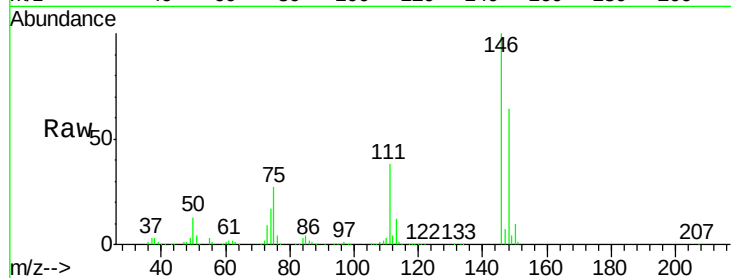
#87
 1,3-Dichlorobenzene
 Concen: 49.721 ug/l
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.8	56.4
148	63.8	31.9	95.7

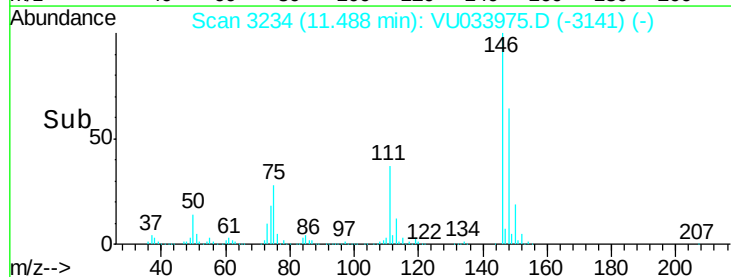
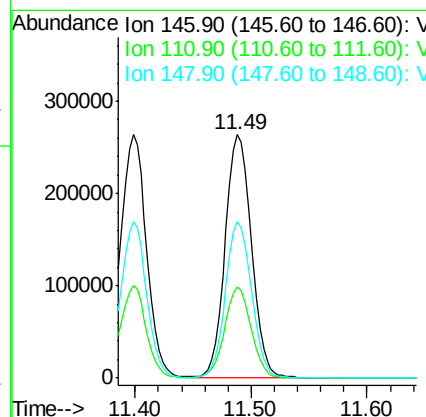
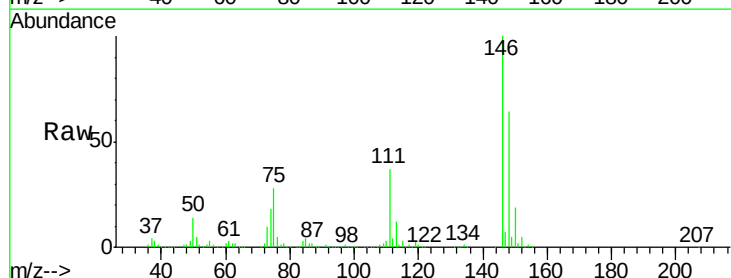
Manual Integrations
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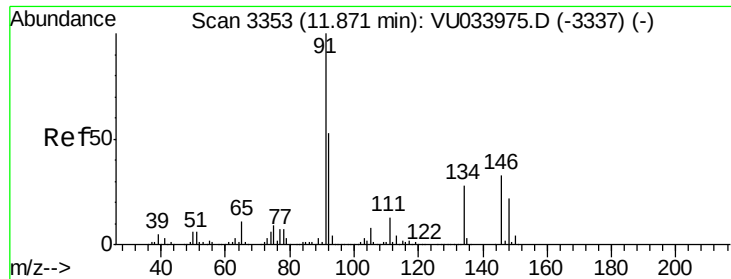
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#88
 1,4-Dichlorobenzene
 Concen: 48.198 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.8	56.4
148	63.8	31.9	95.7





#89

n-Butylbenzene

Concen: 52.072 ug/l

RT: 11.87 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

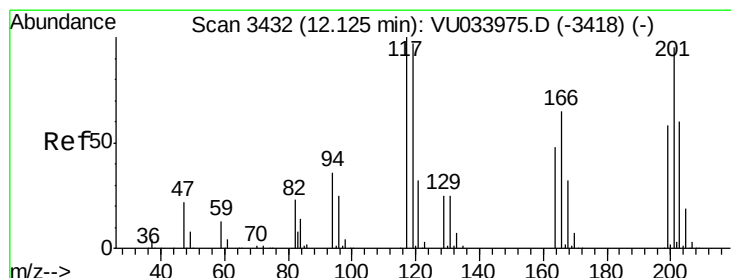
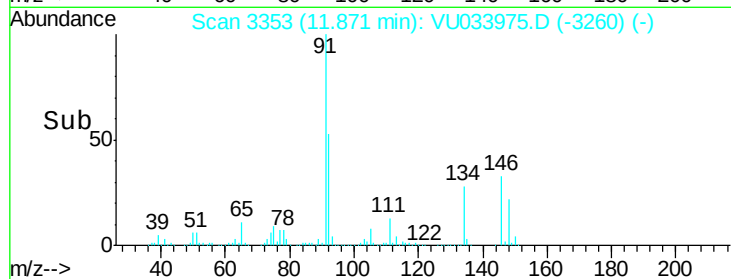
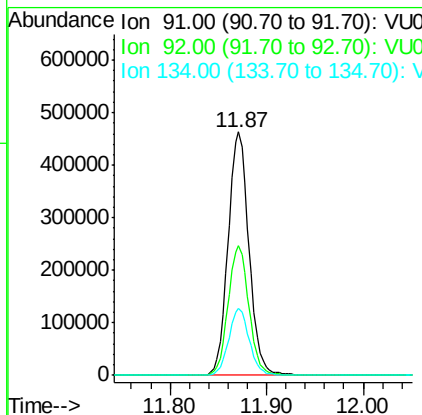
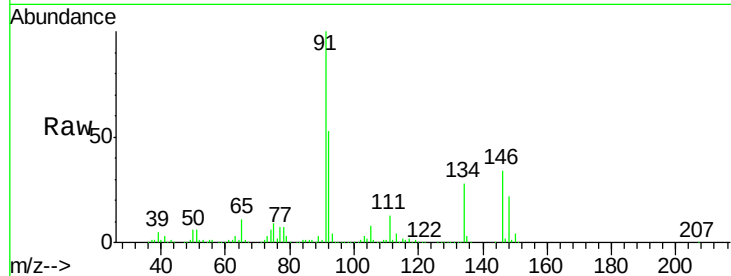
ClientSampleId :

VSTDICCC050

Tot Ion:	91	Resp:	693121
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.7	80.0
134	27.2	13.6	40.8

Manual Integrations
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#90

Hexachloroethane

Concen: 44.707 ug/l

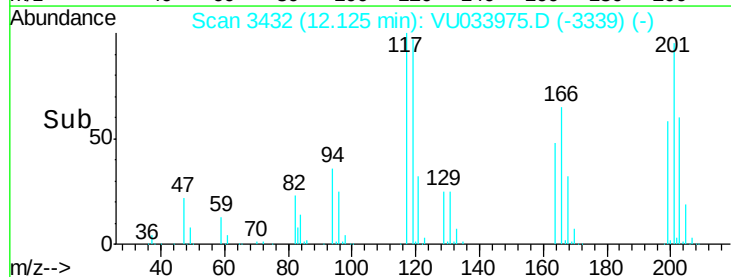
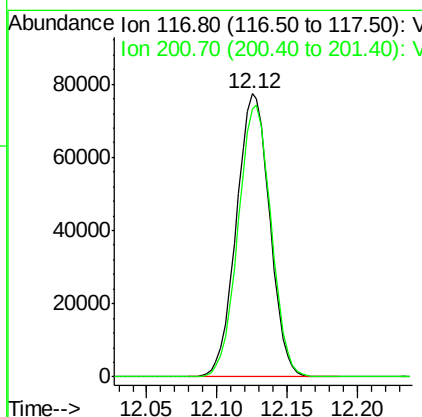
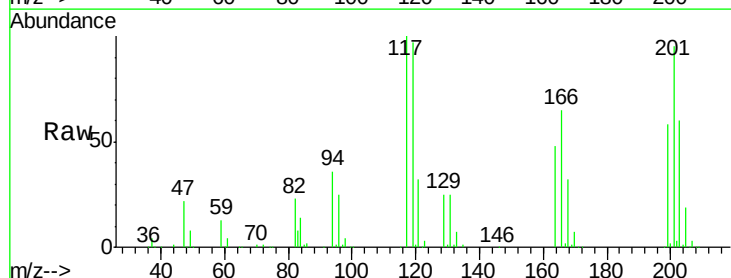
RT: 12.12 min Scan# 3432

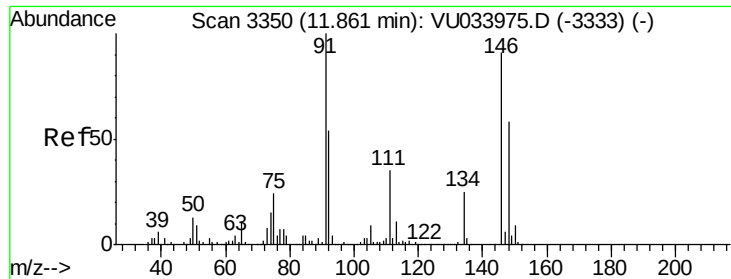
Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion:	117	Resp:	128326
Ion	Ratio	Lower	Upper
117	100		
201	95.0	47.5	142.5





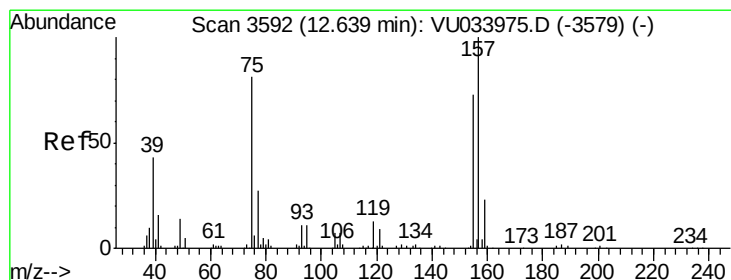
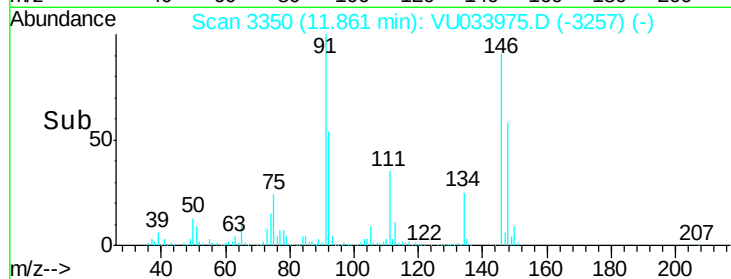
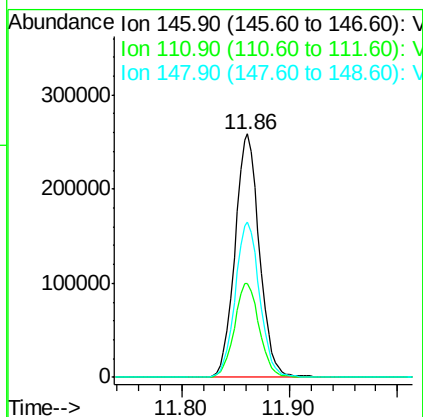
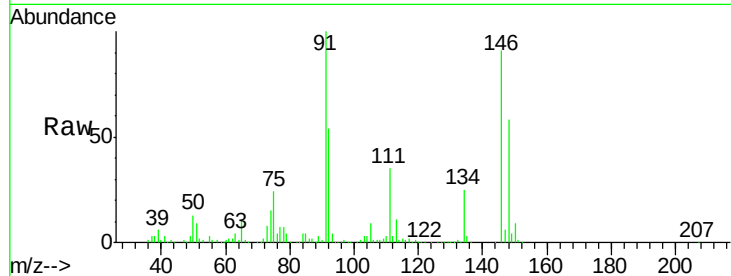
#91
 1,2-Dichlorobenzene
 Concen: 51.191 ug/l
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	64.1	32.0	96.2

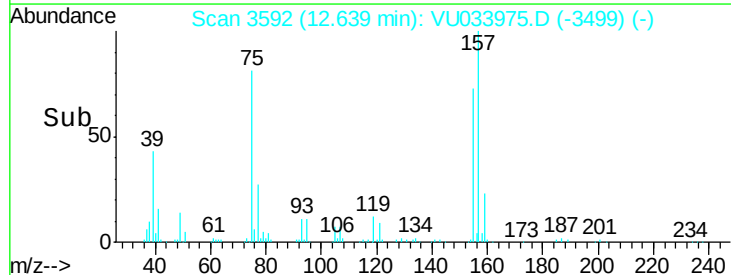
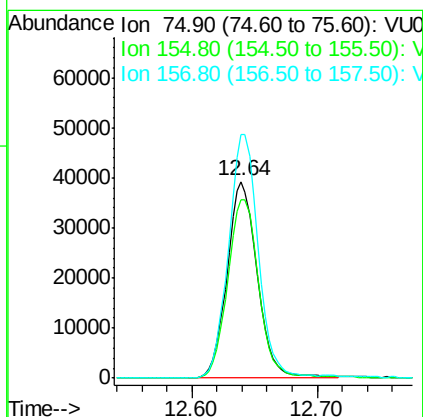
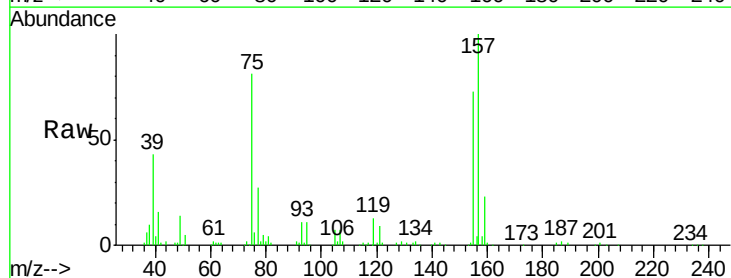
Manual Integrations
 APPROVED

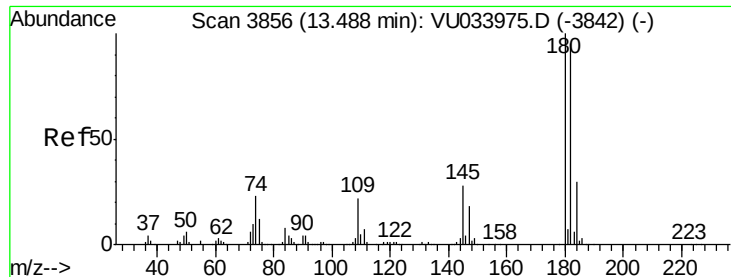
MMDadoda
 8/28/2019 9:57:50 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.510 ug/l
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.7	46.9	140.6
157	122.4	61.2	183.6





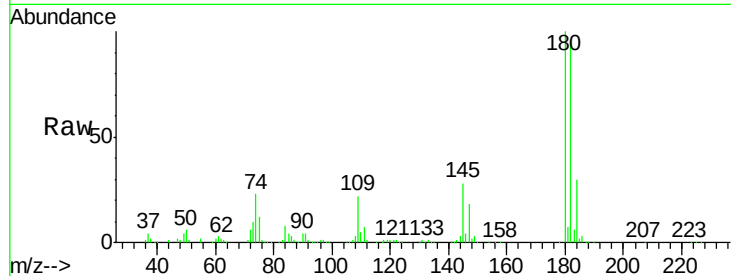
#93
 1,2,4-Trichlorobenzene
 Concen: 61.301 ug/l
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC050

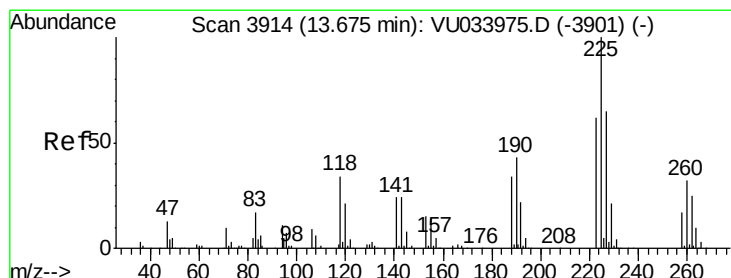
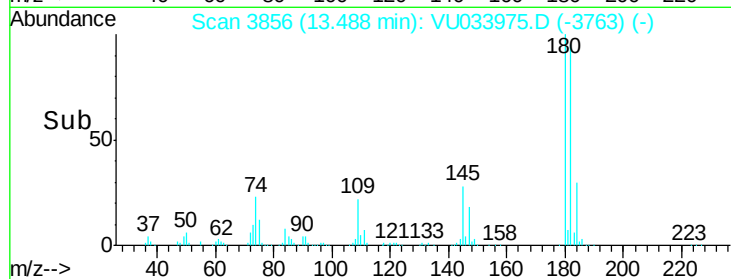
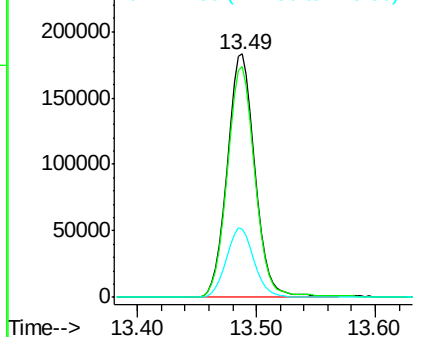
Tot Ion:	180	Resp:	295407
Ion Ratio	Lower	Upper	
180	100		
182	94.8	47.4	142.2
145	28.8	14.4	43.2

Manual Integrations
 APPROVED

MMDadoda
 8/28/2019 9:57:50 AM

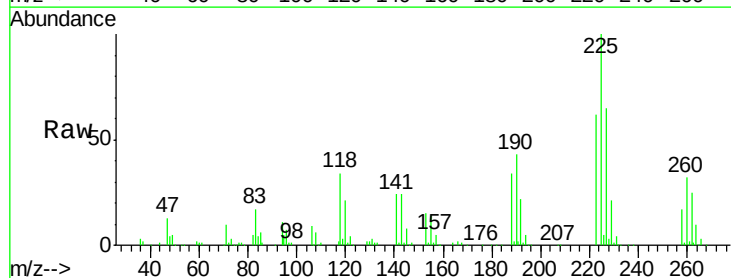


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

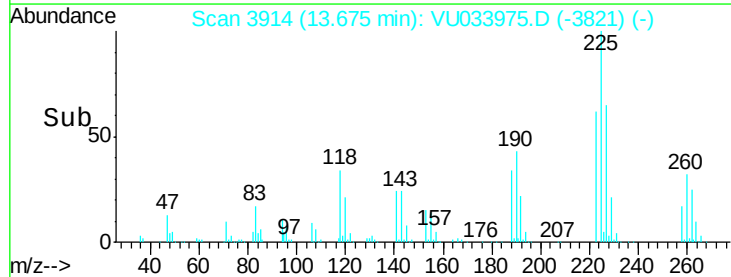
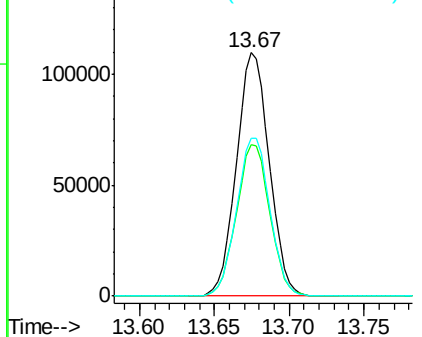


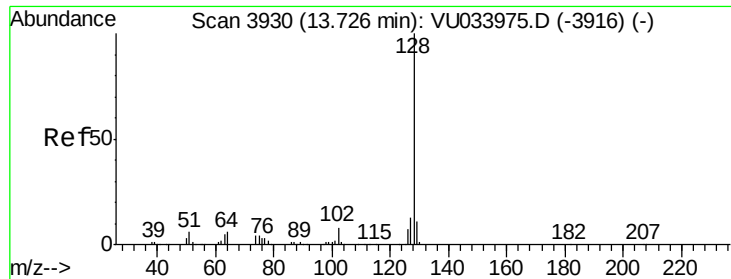
#94
 Hexachlorobutadiene
 Concen: 55.293 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU033975.D
 Acq: 27 Aug 2019 15:54

Tgt Ion:	225	Resp:	167820
Ion Ratio	Lower	Upper	
225	100		
223	63.4	31.7	95.1
227	66.0	33.0	99.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 63.512 ug/l

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Instrument :

MSVOA_U

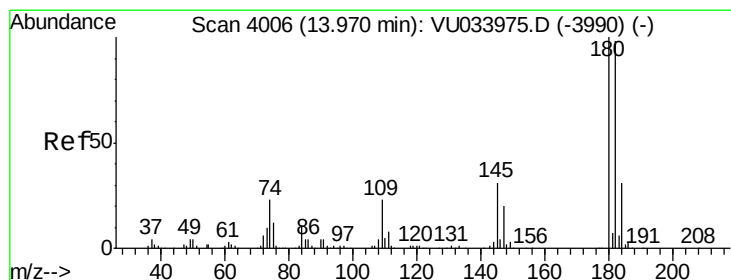
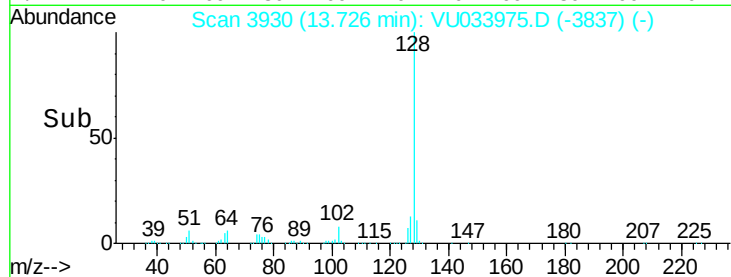
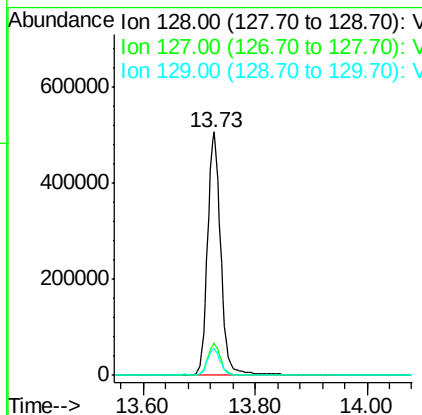
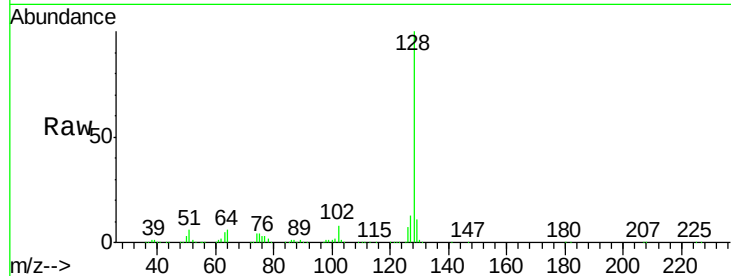
ClientSampleId :

VSTDICCC050

Tot Ion:	128	Resp:	837342
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.6	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
8/28/2019 9:57:50 AM



#96

1,2,3-Trichlorobenzene

Concen: 61.214 ug/l

RT: 13.97 min Scan# 4006

Delta R.T. 0.00 min

Lab File: VU033975.D

Acq: 27 Aug 2019 15:54

Tgt Ion:	180	Resp:	296517
Ion Ratio	Lower	Upper	
180	100		
182	96.9	48.4	145.3
145	30.2	15.1	45.3

