

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111318\
 Data File : VU028108.D
 Acq On : 13 Nov 2018 21:43
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:41 AM

Quant Time: Nov 14 08:13:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	208601	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	359803	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	333228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	163727	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	162516	52.40	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.80%		
35) Dibromofluoromethane	4.88	113	123473	54.43	ug/l	0.00
Spiked Amount 50.000			Recovery =	108.86%		
50) Toluene-d8	7.57	98	482089	55.01	ug/l	0.00
Spiked Amount 50.000			Recovery =	110.02%		
62) 4-Bromofluorobenzene	10.31	95	180095	55.72	ug/l	0.00
Spiked Amount 50.000			Recovery =	111.44%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	104444	39.403	ug/l	99
3) Chloromethane	1.33	50	156669	48.872	ug/l	98
4) Vinyl Chloride	1.40	62	163132	51.272	ug/l	100
5) Bromomethane	1.61	94	82175	60.300	ug/l	96
6) Chloroethane	1.69	64	99435	54.231	ug/l	100
7) Trichlorofluoromethane	1.88	101	188056	51.149	ug/l	95
8) Diethyl Ether	2.11	74	90134	57.255	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.29	101	115605	52.930	ug/l	98
10) Methyl Iodide	2.41	142	136623	65.300	ug/l	98
11) Tert butyl alcohol	2.83	59	213706	260.287	ug/l	100
12) 1,1-Dichloroethene	2.28	96	112286	51.360	ug/l	94
13) Acrolein	2.20	56	85428	283.781	ug/l	98
14) Allyl chloride	2.59	41	241940	45.279	ug/l	96
15) Acrylonitrile	2.94	53	516028	255.864	ug/l	99
16) Acetone	2.32	43	444796	231.158	ug/l	99
17) Carbon Disulfide	2.48	76	326442	45.682	ug/l	99
18) Methyl Acetate	2.62	43	270100	51.028	ug/l	95
19) Methyl tert-butyl Ether	3.00	73	457409	51.881	ug/l	99
20) Methylene Chloride	2.70	84	142304	50.651	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	122163	48.419	ug/l	99
22) Diisopropyl ether	3.58	45	542298	49.160	ug/l	99
23) Vinyl Acetate	3.53	43	2329398	245.699	ug/l	98
24) 1,1-Dichloroethane	3.45	63	270424	49.215	ug/l	99
25) 2-Butanone	4.26	43	741711	242.291	ug/l	97
26) 2,2-Dichloropropane	4.23	77	200611	48.650	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	147766	52.227	ug/l	98
28) Bromochloromethane	4.55	49	132955	51.614	ug/l	96
29) Tetrahydrofuran	4.64	42	475621	232.679	ug/l	96
30) Chloroform	4.67	83	248652	49.354	ug/l	97
31) Cyclohexane	5.00	56	253375	46.885	ug/l	97
32) 1,1,1-Trichloroethane	4.92	97	203606	50.769	ug/l	99
36) 1,1-Dichloropropene	5.14	75	185019	49.098	ug/l	99
37) Ethyl Acetate	4.38	43	263870	47.790	ug/l	98
38) Carbon Tetrachloride	5.14	117	163533	48.969	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111318\
 Data File : VU028108.D
 Acq On : 13 Nov 2018 21:43
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:41 AM

Quant Time: Nov 14 08:13:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	222436	48.940	ug/l	97
40) Benzene	5.39	78	583253	50.624	ug/l	99
41) Methacrylonitrile	4.54	41	149056	50.585	ug/l	96
42) 1,2-Dichloroethane	5.40	62	205684	50.225	ug/l	99
43) Isopropyl Acetate	5.55	43	427190	49.383	ug/l	99
44) Trichloroethene	6.19	130	128115	51.732	ug/l	98
45) 1,2-Dichloropropane	6.43	63	167499	50.411	ug/l	97
46) Dibromomethane	6.56	93	100798	52.777	ug/l	96
47) Bromodichloromethane	6.76	83	192138	52.203	ug/l	99
48) Methyl methacrylate	6.62	41	217292	51.259	ug/l	97
49) 1,4-Dioxane	6.61	88	84216	1217.676	ug/l	93
51) 4-Methyl-2-Pentanone	7.46	43	1419616	245.733	ug/l	98
52) Toluene	7.64	92	344406	50.848	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	223124	48.910	ug/l	98
54) cis-1,3-Dichloropropene	7.27	75	241353	53.193	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	145866	52.933	ug/l	97
56) Ethyl methacrylate	8.02	69	256145	52.709	ug/l	98
57) 1,3-Dichloropropane	8.24	76	256029	51.005	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.13	63	688255	264.441	ug/l	98
59) 2-Hexanone	8.36	43	1108069	247.991	ug/l	97
60) Dibromochloromethane	8.48	129	140558	53.903	ug/l	99
61) 1,2-Dibromoethane	8.59	107	152150	51.962	ug/l	99
64) Tetrachloroethene	8.23	164	111313	51.516	ug/l	99
65) Chlorobenzene	9.12	112	360810	51.250	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	128113	53.276	ug/l	98
67) Ethyl Benzene	9.25	91	678601	52.366	ug/l	99
68) m/p-Xylenes	9.38	106	492722	104.791	ug/l	98
69) o-Xylene	9.78	106	248749	52.391	ug/l	99
70) Styrene	9.79	104	403589	53.199	ug/l	99
71) Bromoform	9.96	173	107432	53.308	ug/l #	98
73) Isopropylbenzene	10.17	105	659878	52.025	ug/l	100
74) N-amyl acetate	10.01	43	391636	51.063	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	262065	51.222	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	234231m	52.302	ug/l	
77) Bromobenzene	10.45	156	155115	53.333	ug/l	98
78) n-propylbenzene	10.59	91	793792	52.284	ug/l	100
79) 2-Chlorotoluene	10.66	91	463491	50.931	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	548873	52.238	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	73489m	41.019	ug/l	
82) 4-Chlorotoluene	10.77	91	527730	51.080	ug/l	99
83) tert-Butylbenzene	11.10	119	534132	50.850	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	561828	53.102	ug/l	99
85) sec-Butylbenzene	11.32	105	670301	52.471	ug/l	100
86) p-Isopropyltoluene	11.48	119	562111	52.636	ug/l	100
87) 1,3-Dichlorobenzene	11.42	146	279993	52.115	ug/l	100
88) 1,4-Dichlorobenzene	11.51	146	280375	50.915	ug/l	99
89) n-Butylbenzene	11.89	91	536607	52.871	ug/l	100
90) Hexachloroethane	12.15	117	97413	51.235	ug/l	97
91) 1,2-Dichlorobenzene	11.88	146	283518	52.475	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	57523	53.358	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
Data File : VU028108.D
Acq On : 13 Nov 2018 21:43
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

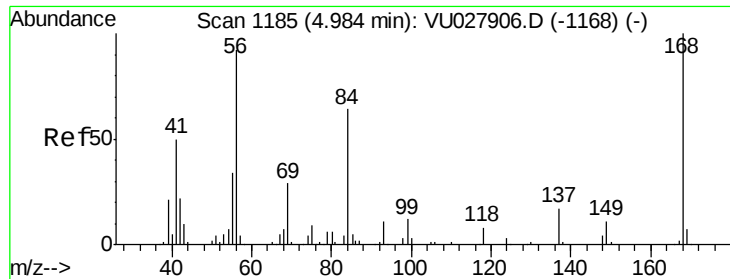
Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM

Quant Time: Nov 14 08:13:13 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	185739	49.032	ug/l	99
94) Hexachlorobutadiene	13.69	225	86580	50.420	ug/l	98
95) Naphthalene	13.74	128	676361	50.363	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	190254	52.477	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 208601

Ion Ratio Lower Upper

168 100

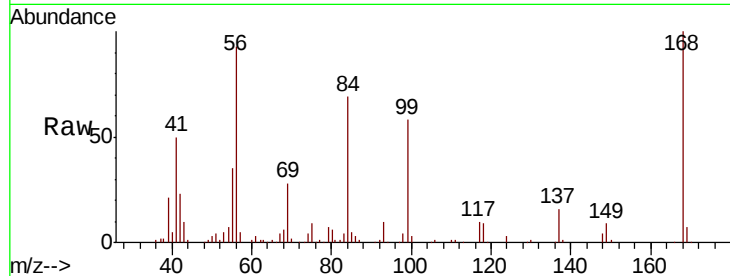
99 57.6 47.9 71.9

Manual Integrations

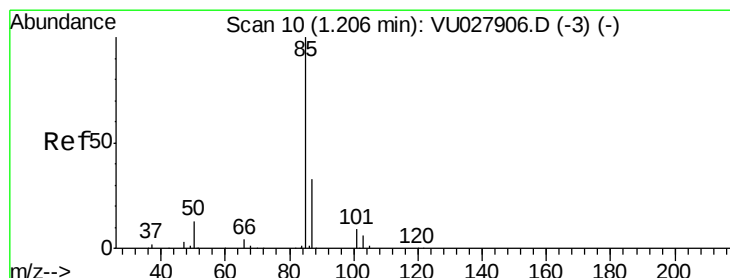
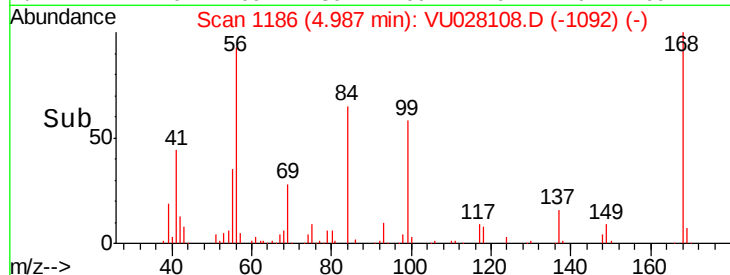
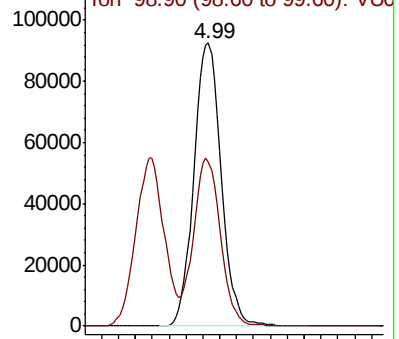
APPROVED

MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)



#2

Dichlorodifluoromethane

Concen: 39.403 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028108.D

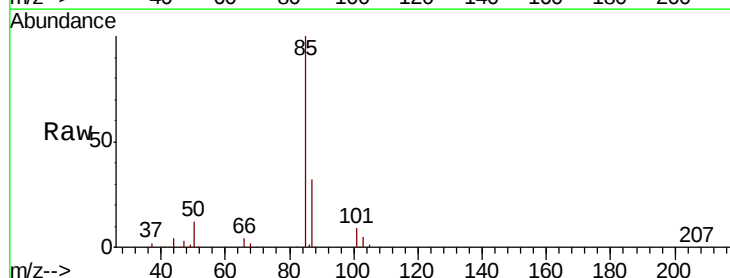
Acq: 13 Nov 2018 21:43

Tgt Ion: 85 Resp: 104444

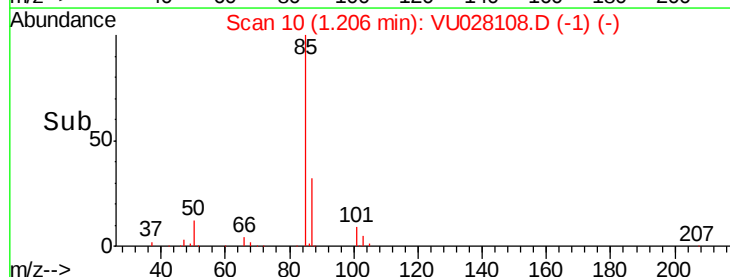
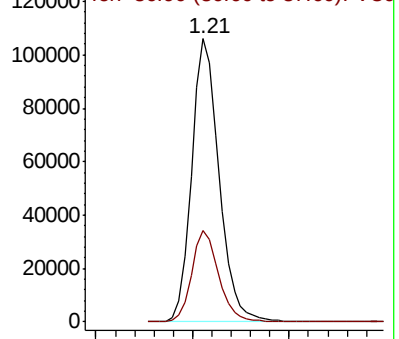
Ion Ratio Lower Upper

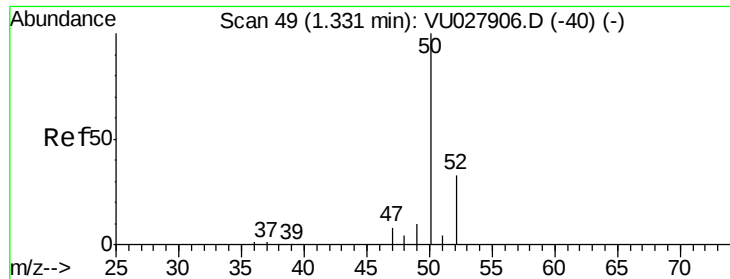
85 100

87 32.3 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU027906.D (-3) (-)





#3

Chloromethane

Concen: 48.872 ug/l

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 156669

Ion Ratio Lower Upper

50 100

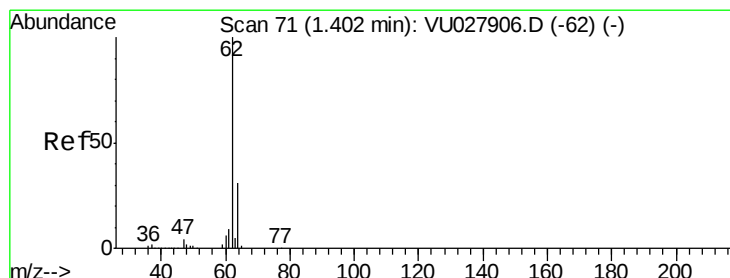
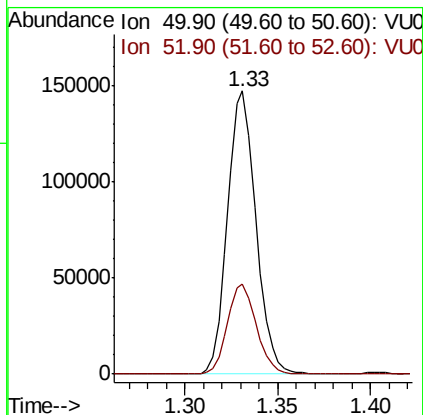
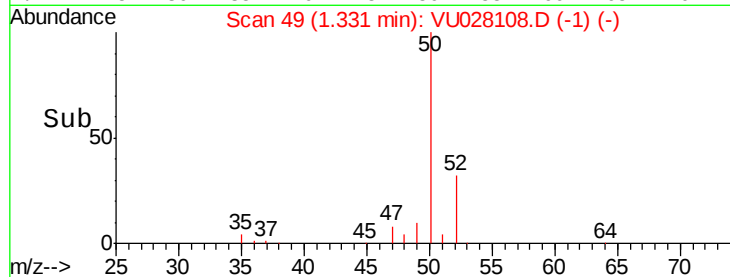
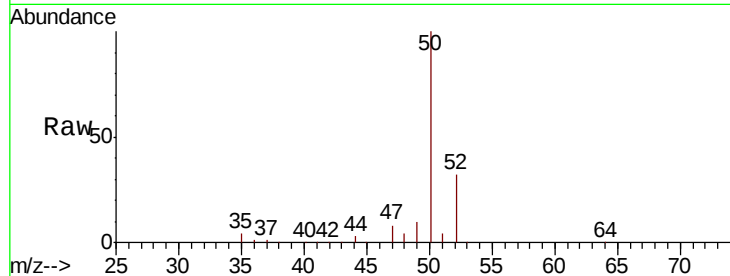
52 31.9 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



#4

Vinyl Chloride

Concen: 51.272 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028108.D

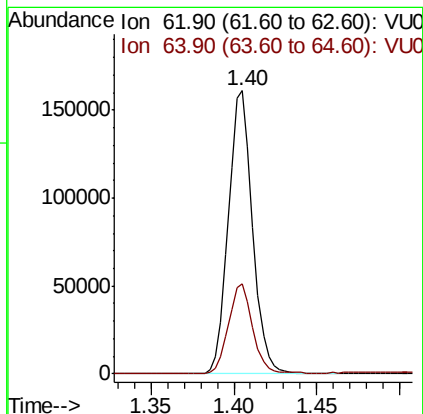
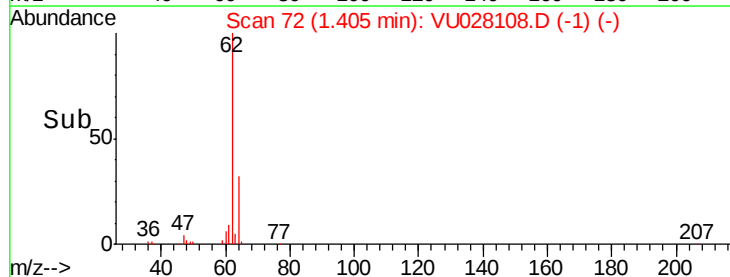
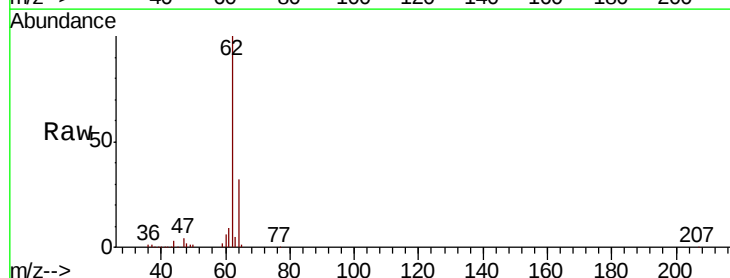
Acq: 13 Nov 2018 21:43

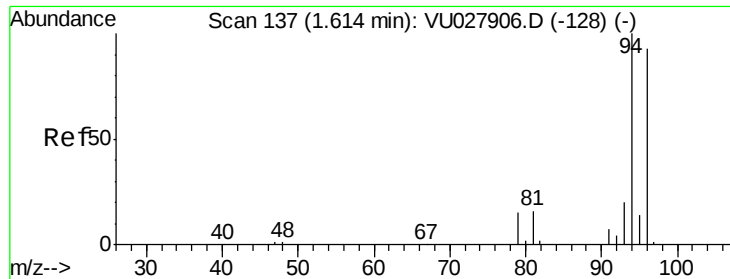
Tgt Ion: 62 Resp: 163132

Ion Ratio Lower Upper

62 100

64 31.7 25.2 37.8





#5

Bromomethane

Concen: 60.300 ug/l

RT: 1.61 min Scan# 136

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 82175

Ion Ratio Lower Upper

94 100

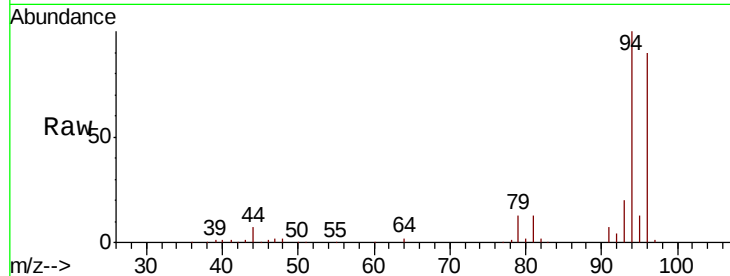
96 89.7 74.8 112.2

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.61

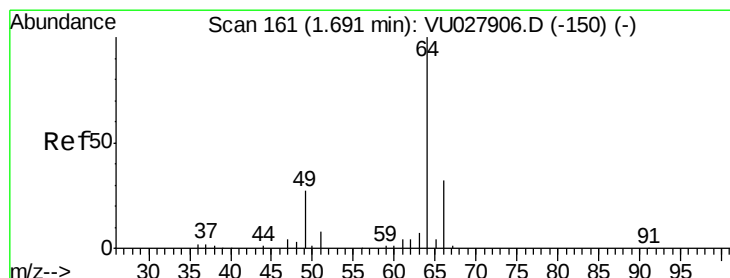
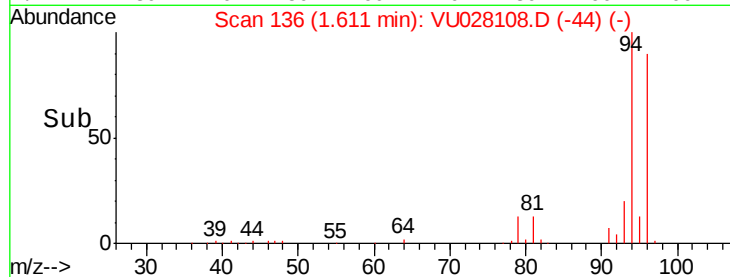
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 54.231 ug/l

RT: 1.69 min Scan# 160

Delta R.T. -0.00 min

Lab File: VU028108.D

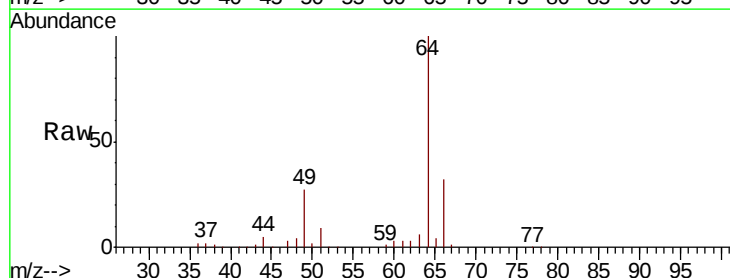
Acq: 13 Nov 2018 21:43

Tgt Ion: 64 Resp: 99435

Ion Ratio Lower Upper

64 100

66 32.2 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.69

80000

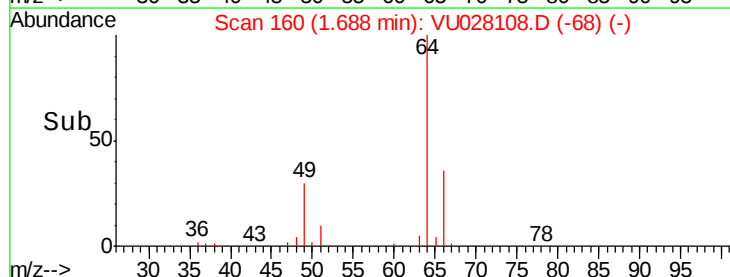
60000

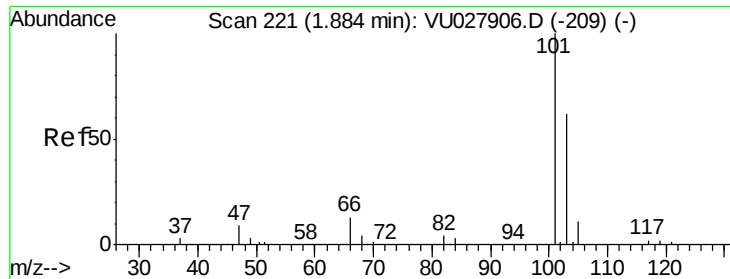
40000

20000

0

Time-->





#7

Trichlorofluoromethane

Concen: 51.149 ug/l

RT: 1.88 min Scan# 220

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:101 Resp: 188056

Ion Ratio Lower Upper

101 100

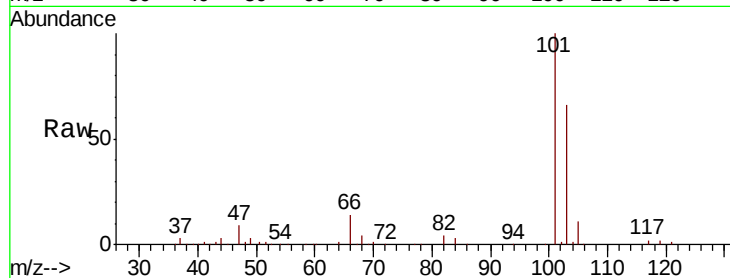
103 65.9 49.4 74.2

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

150000

100000

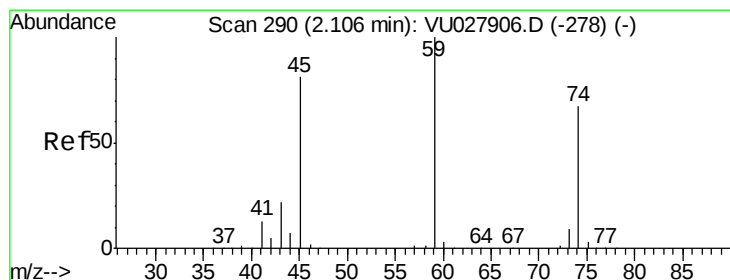
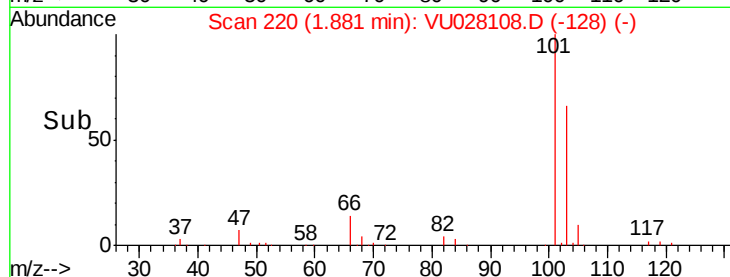
50000

0

1.88

1.85 1.90 1.95

Time-->



#8

Diethyl Ether

Concen: 57.255 ug/l

RT: 2.11 min Scan# 290

Delta R.T. -0.00 min

Lab File: VU028108.D

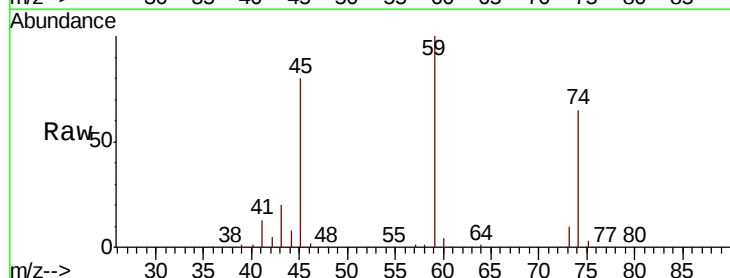
Acq: 13 Nov 2018 21:43

Tgt Ion: 74 Resp: 90134

Ion Ratio Lower Upper

74 100

45 120.5 60.5 181.5



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

80000

60000

40000

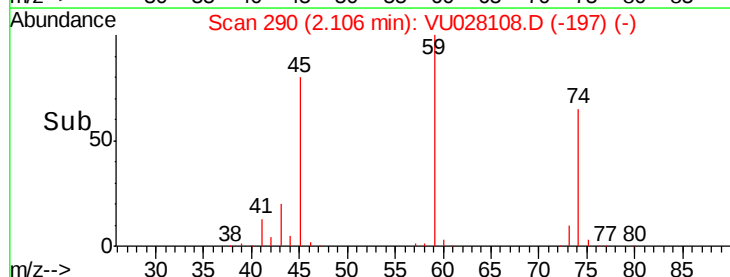
20000

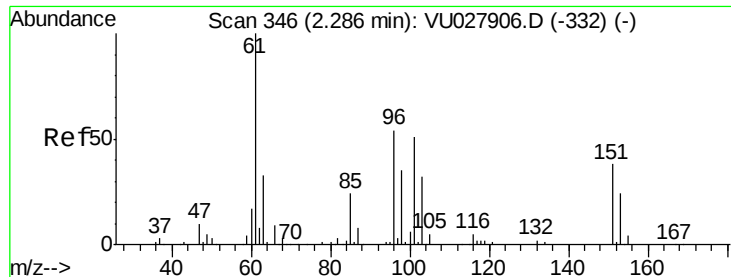
0

2.11

2.05 2.10 2.15

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.930 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

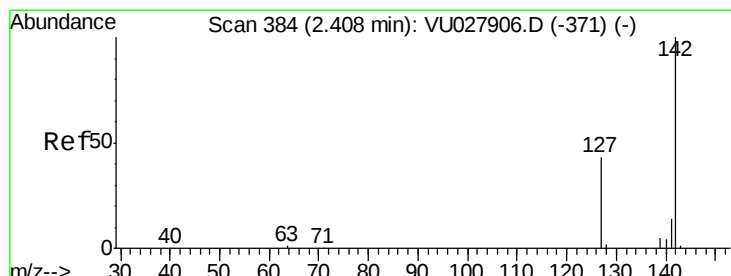
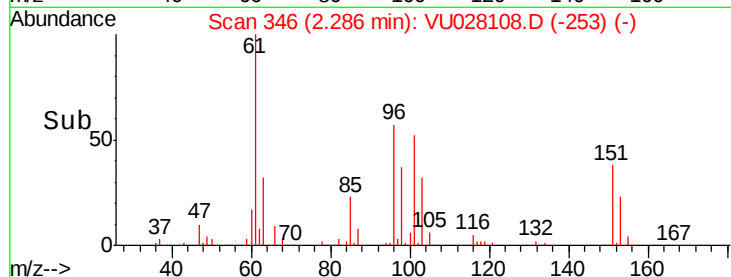
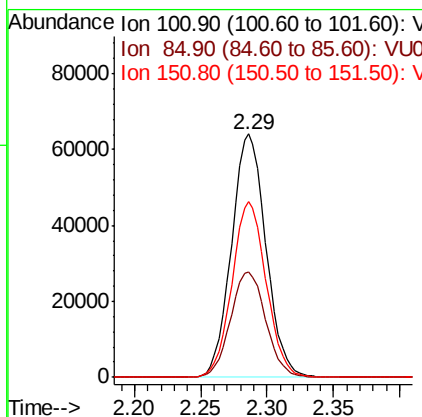
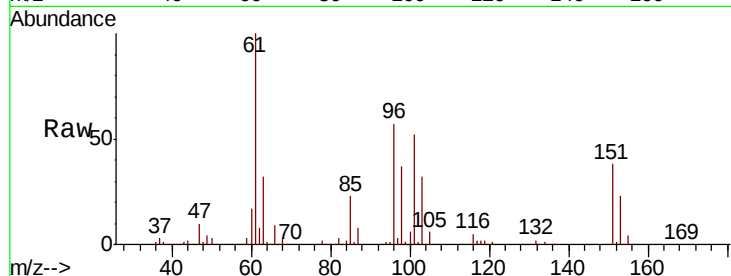
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	115605
Ion Ratio	Lower	Upper	
101	100		
85	44.3	36.9	55.3
151	71.8	58.0	87.0

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#10

Methyl Iodide

Concen: 65.300 ug/l

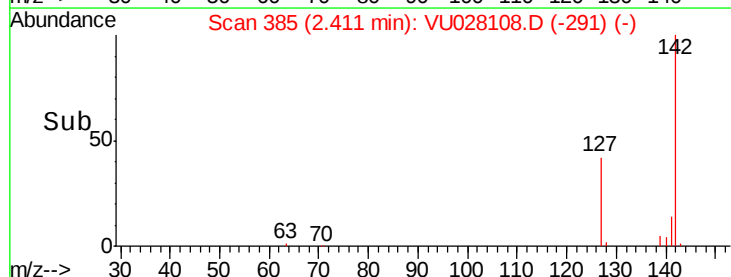
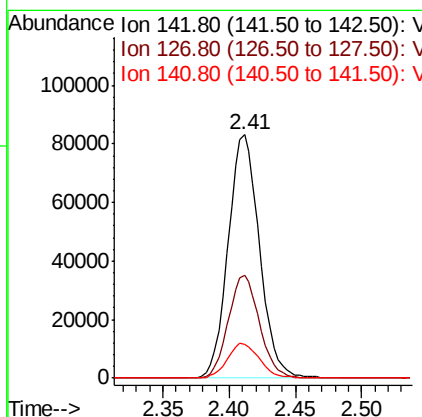
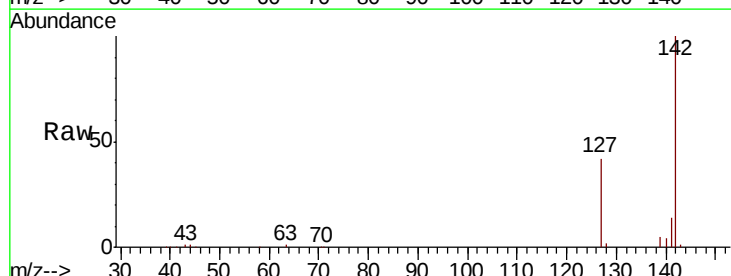
RT: 2.41 min Scan# 385

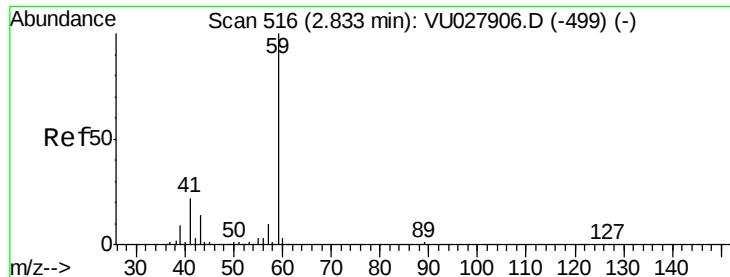
Delta R.T. 0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion:	142	Resp:	136623
Ion Ratio	Lower	Upper	
142	100		
127	42.2	35.2	52.8
141	14.5	11.8	17.8





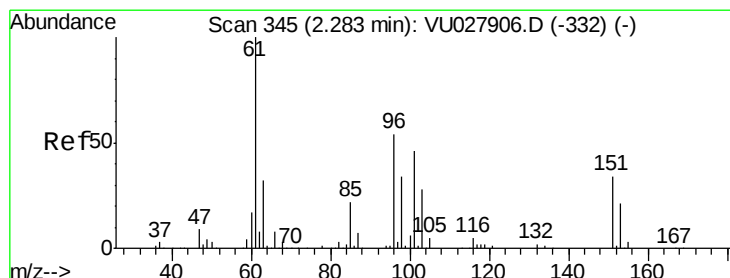
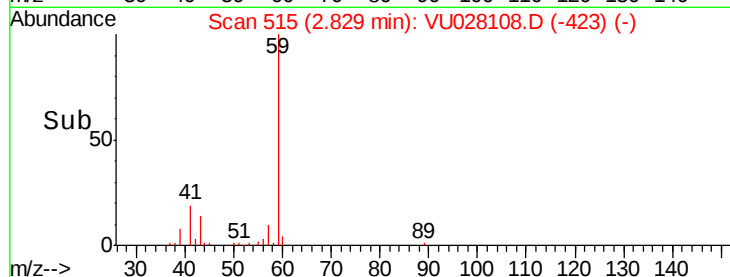
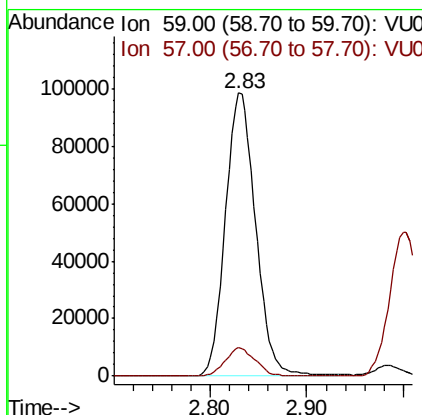
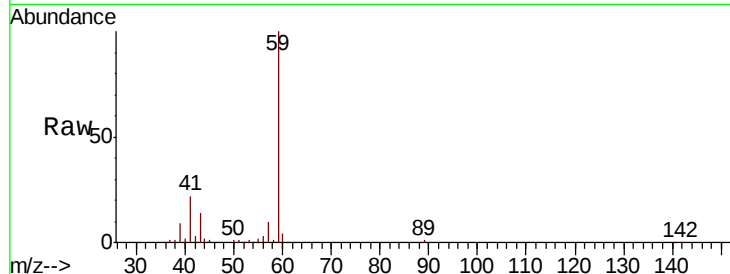
#11
Tert butyl alcohol
Concen: 260.287 ug/l
RT: 2.83 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.8	11.8

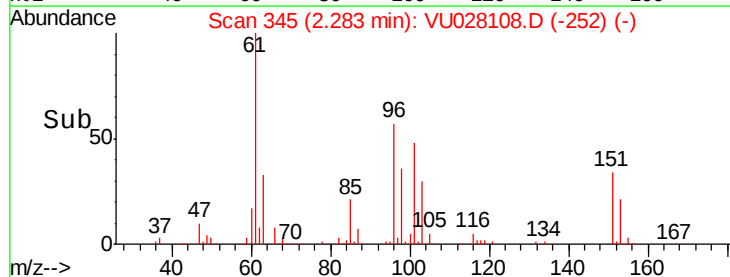
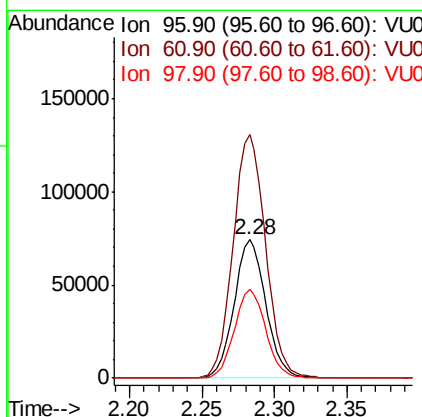
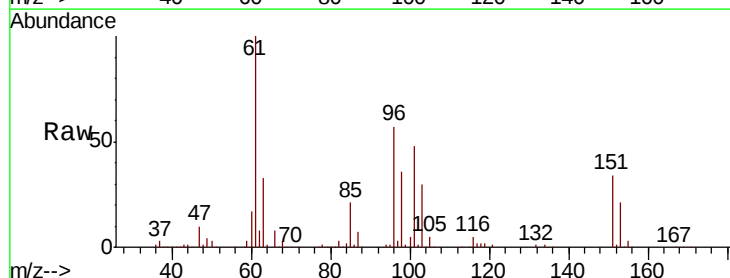
Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#12
1,1-Dichloroethene
Concen: 51.360 ug/l
RT: 2.28 min Scan# 345
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.1	149.3	223.9
98	63.8	50.6	75.8





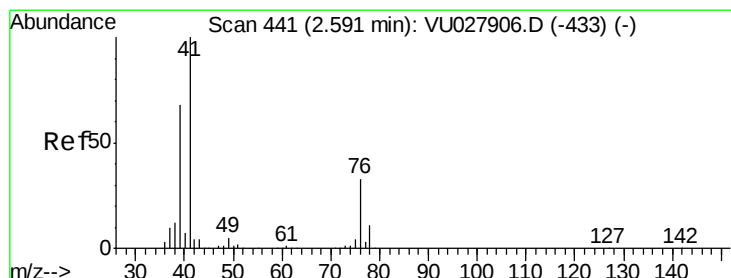
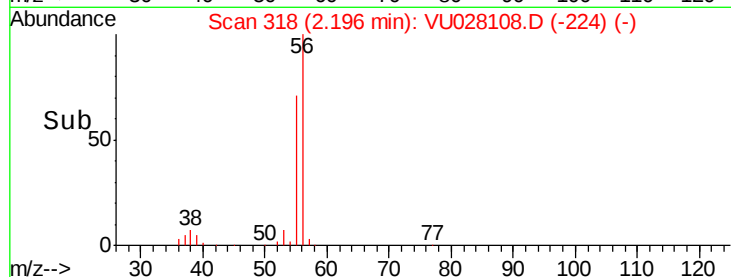
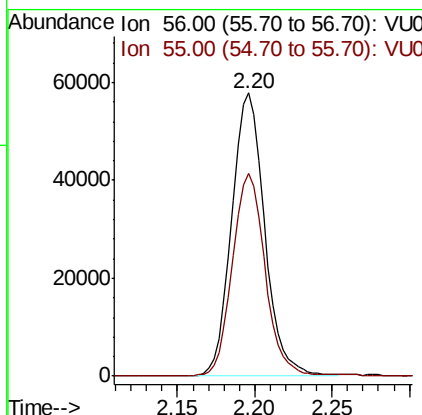
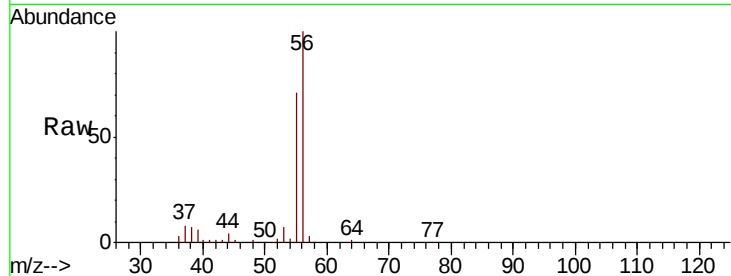
#13
Acrolein
Concen: 283.781 ug/l
RT: 2.20 min Scan# 318
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	56	55	Ratio	Lower	Upper
56	100				
55	72.0		56.2	84.4	

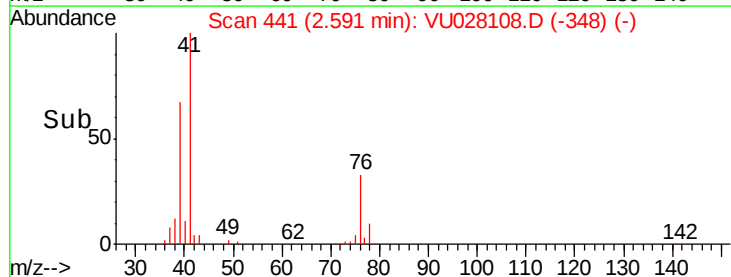
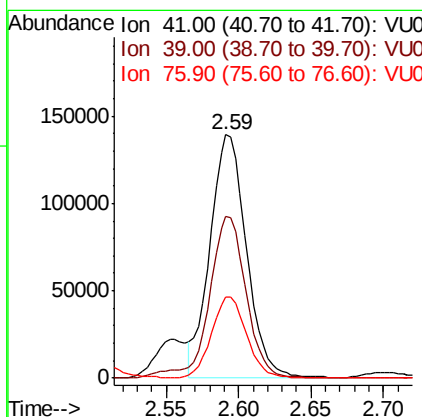
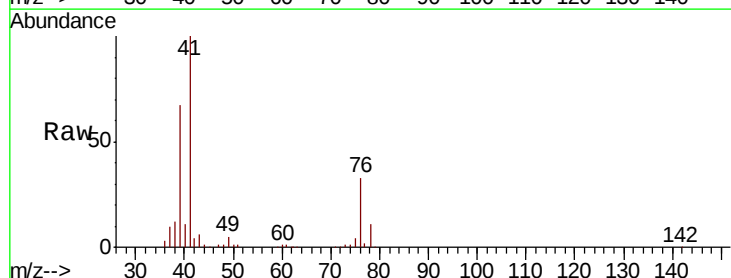
Manual Integrations
APPROVED

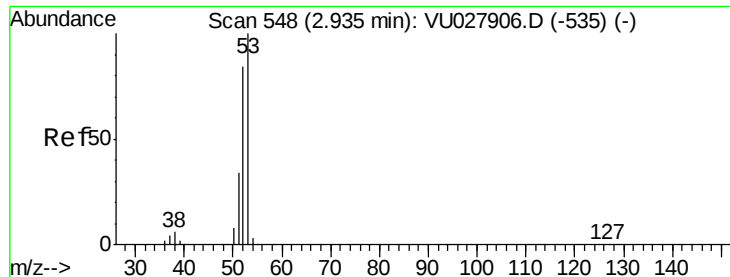
MMDadoda
11/14/2018 9:34:41 AM



#14
Allyl chloride
Concen: 45.279 ug/l
RT: 2.59 min Scan# 441
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	41	39	76	Ratio	Lower	Upper
41	100					
39	67.4			51.9	77.9	
76	32.3			23.8	35.6	





#15

Acrylonitrile

Concen: 255.864 ug/l

RT: 2.94 min Scan# 548

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

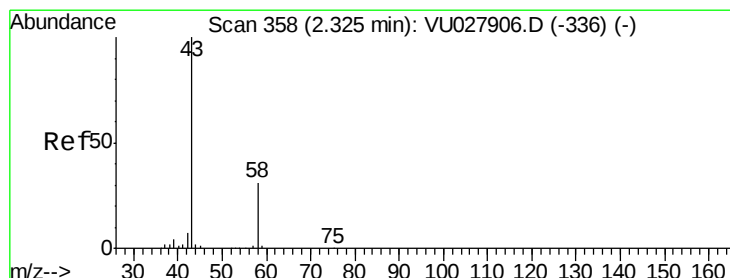
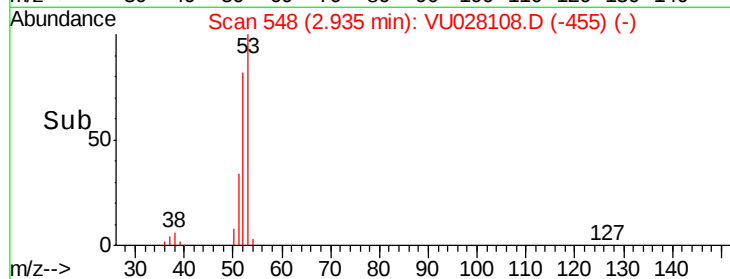
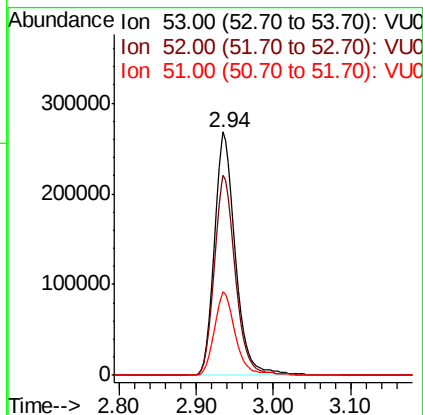
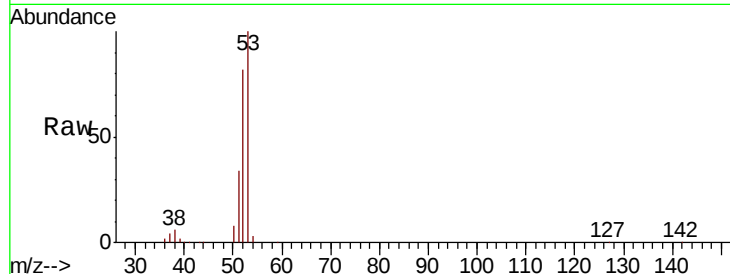
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	516028
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.2	99.2
51	34.9	27.0	40.4

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#16

Acetone

Concen: 231.158 ug/l

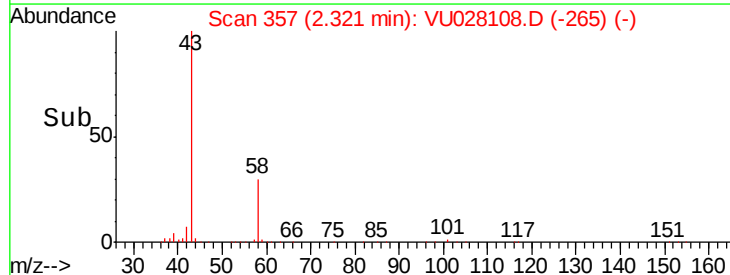
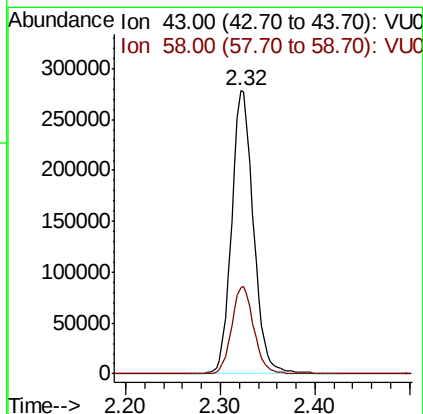
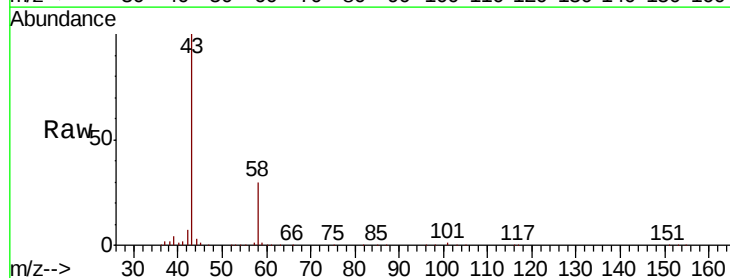
RT: 2.32 min Scan# 357

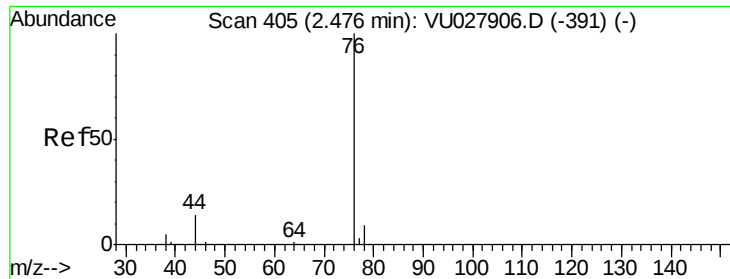
Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion:	43	Resp:	444796
Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.6	37.0





#17

Carbon Disulfide

Concen: 45.682 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 326442

Ion Ratio Lower Upper

76 100

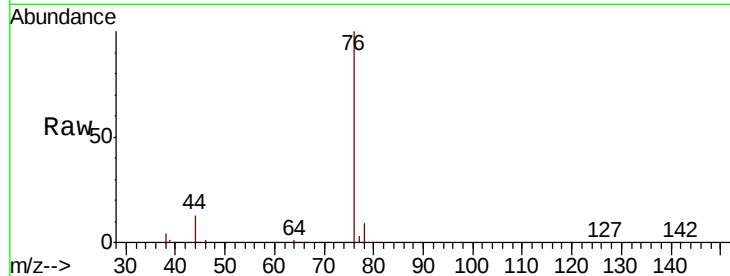
78 8.8 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 75.90 (75.60 to 76.60): VU028108.D (-312) (-)

Ion 77.90 (77.60 to 78.60): VU028108.D (-312) (-)

2.48

200000

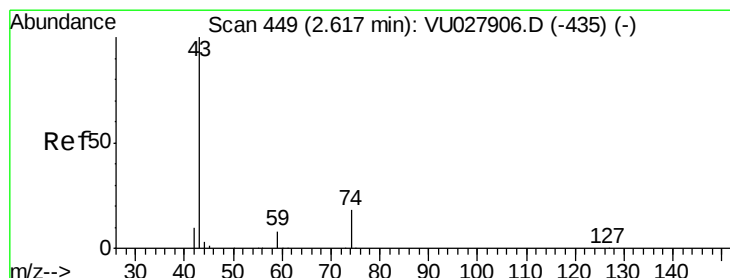
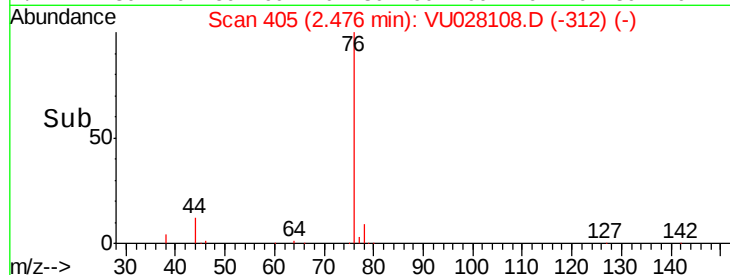
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 51.028 ug/l

RT: 2.62 min Scan# 449

Delta R.T. -0.00 min

Lab File: VU028108.D

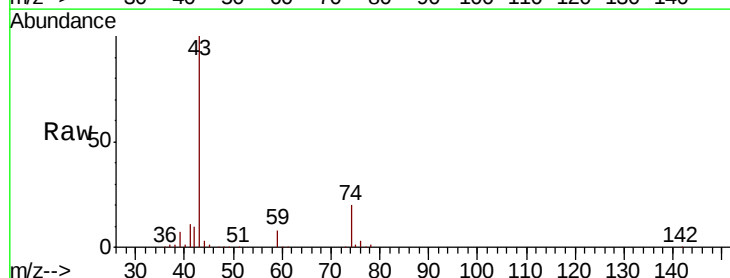
Acq: 13 Nov 2018 21:43

Tgt Ion: 43 Resp: 270100

Ion Ratio Lower Upper

43 100

74 21.0 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU028108.D (-356) (-)

Ion 74.00 (73.70 to 74.70): VU028108.D (-356) (-)

2.62

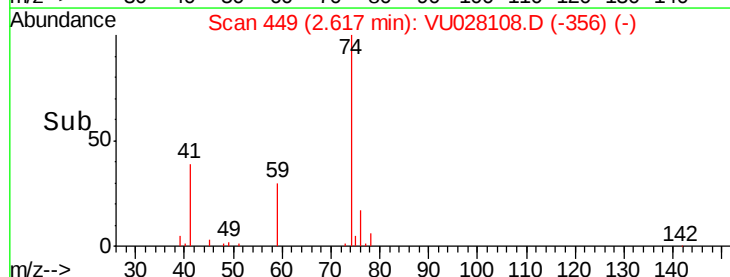
150000

100000

50000

0

Time-->





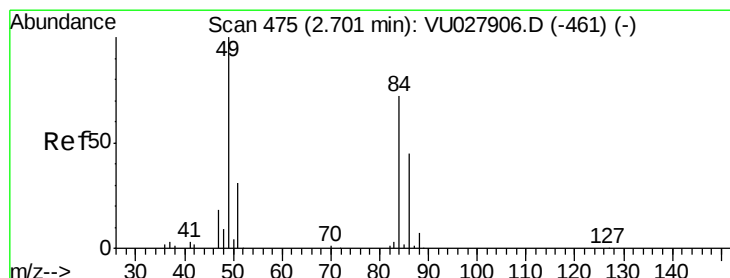
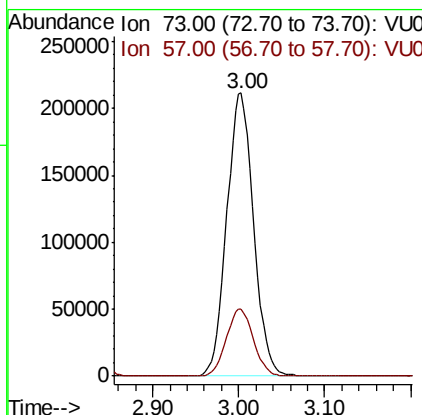
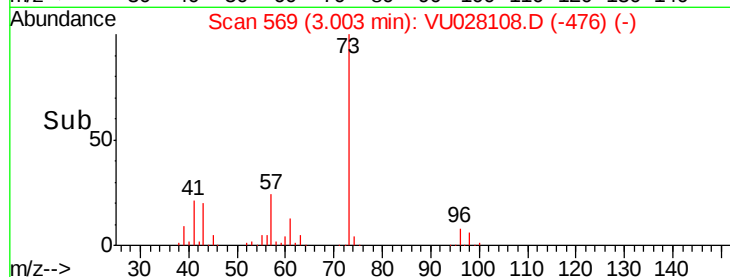
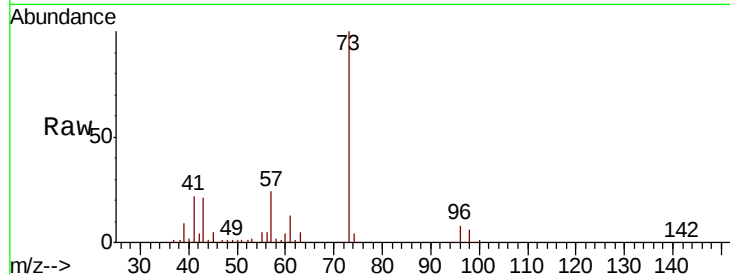
#19
Methvl tert-butvl Ether
Concen: 51.881 ug/l
RT: 3.00 min Scan# 569
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.6	19.3	28.9

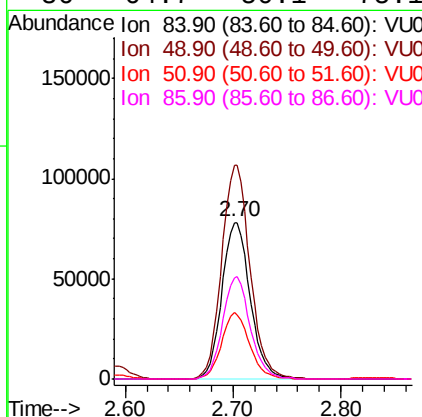
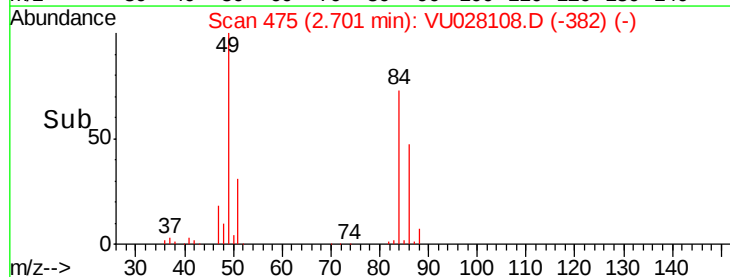
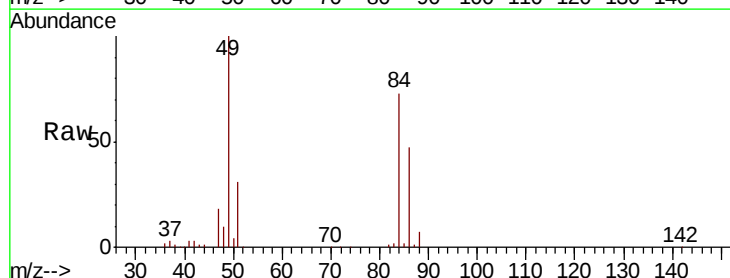
Manual Integrations
APPROVED

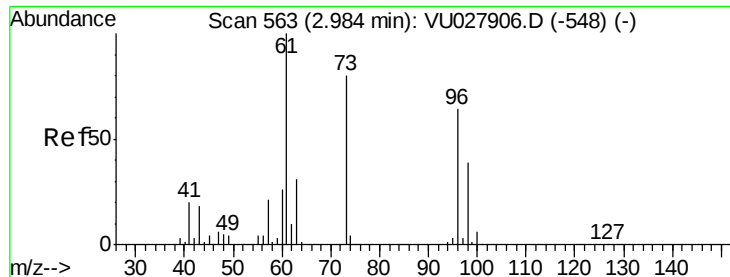
MMDadoda
11/14/2018 9:34:41 AM



#20
Methylene Chloride
Concen: 50.651 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	136.5	111.6	167.4
51	42.2	34.8	52.2
86	64.7	50.1	75.1





#21

trans-1,2-Dichloroethene

Concen: 48.419 ug/l

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 122163

Ion Ratio Lower Upper

96 100

61 157.1 125.0 187.6

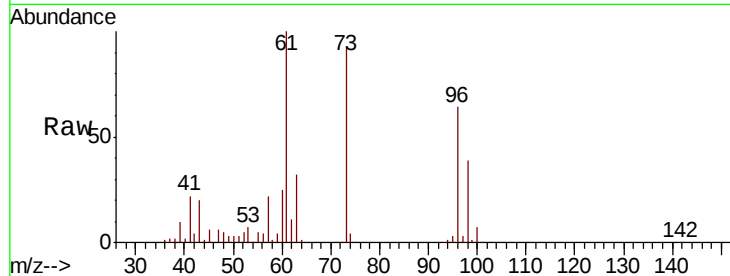
98 61.2 48.2 72.4

Manual Integrations

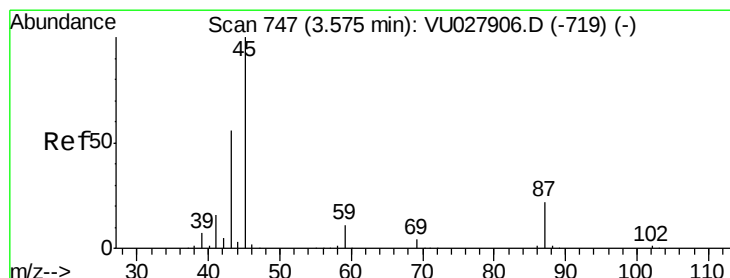
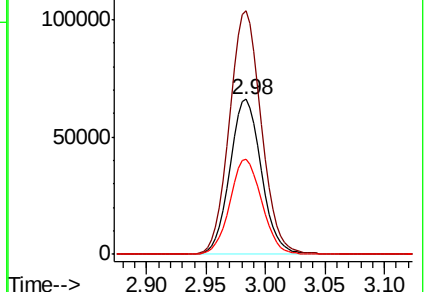
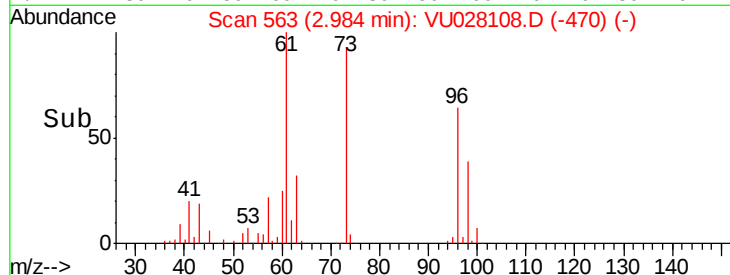
APPROVED

MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 95.90 (95.60 to 96.60): VU028108.D (-470) (-)



#22

Diisopropyl ether

Concen: 49.160 ug/l

RT: 3.58 min Scan# 747

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion: 45 Resp: 542298

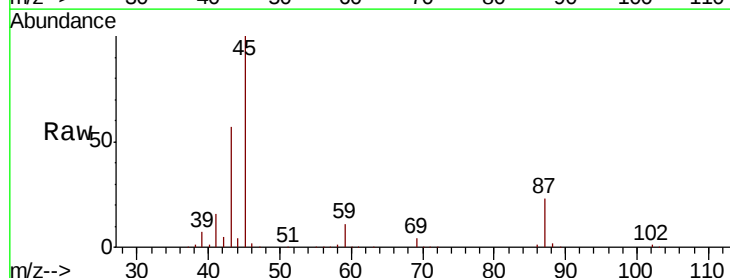
Ion Ratio Lower Upper

45 100

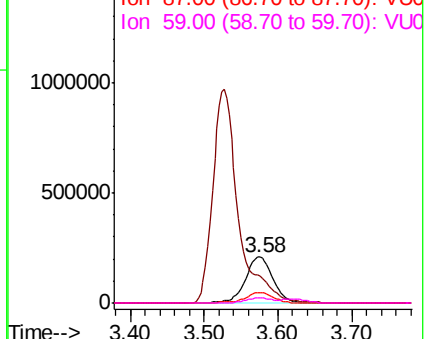
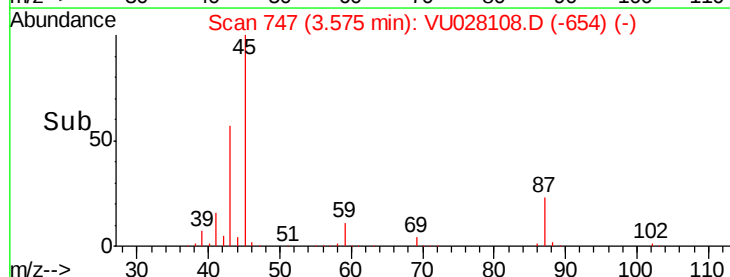
43 57.1 45.0 67.6

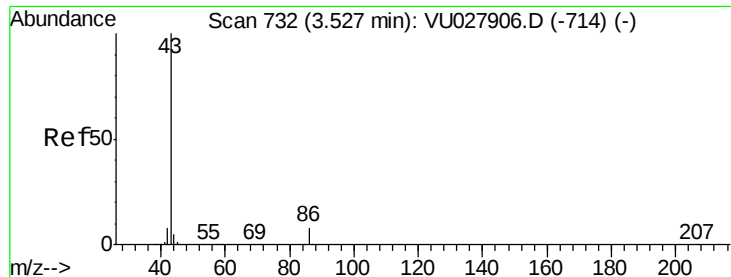
87 23.2 17.9 26.9

59 10.7 8.6 12.8



Abundance Ion 45.00 (44.70 to 45.70): VU028108.D (-654) (-)





#23

Vinyl Acetate

Concen: 245.699 ug/l

RT: 3.53 min Scan# 732

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 2329398

Ion Ratio Lower Upper

43 100

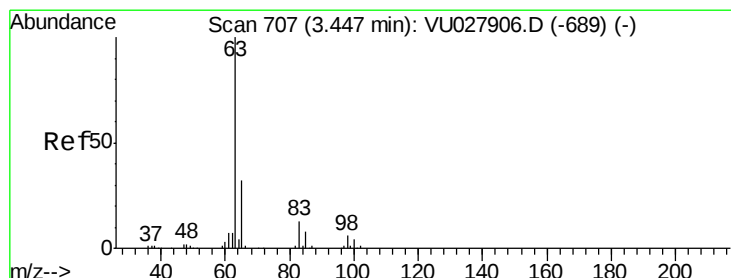
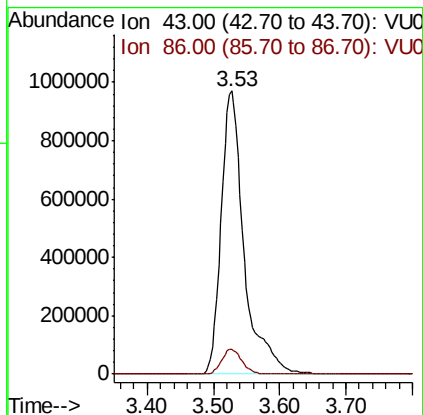
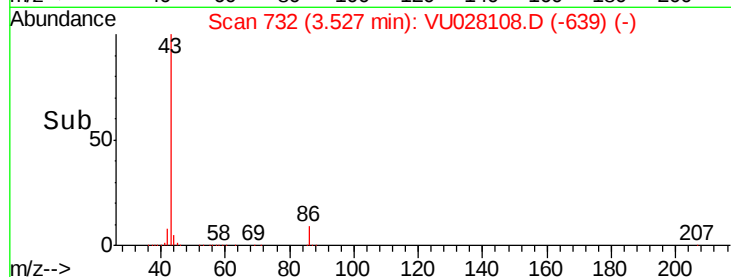
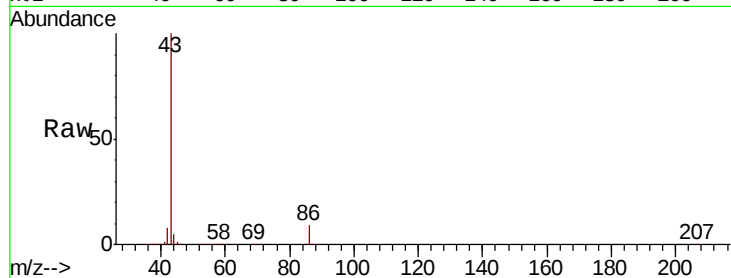
86 8.8 6.6 9.8

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



#24

1,1-Dichloroethane

Concen: 49.215 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

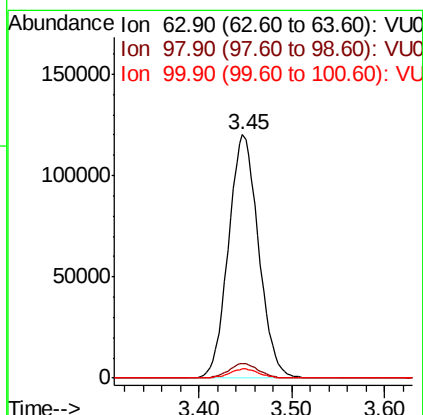
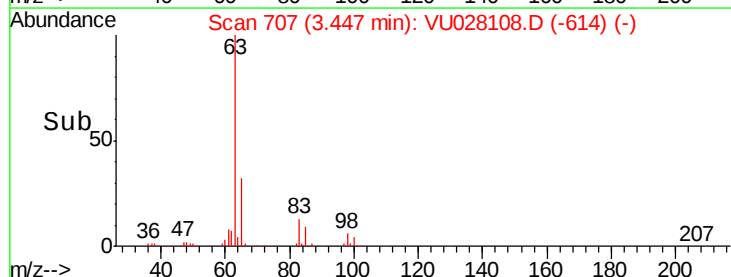
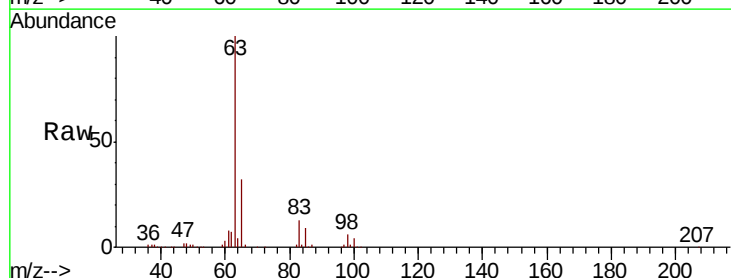
Tgt Ion: 63 Resp: 270424

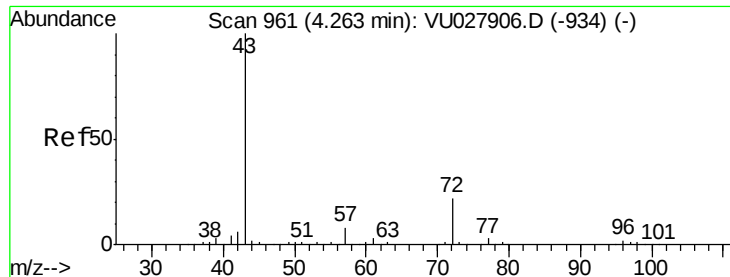
Ion Ratio Lower Upper

63 100

98 6.2 2.9 8.6

100 3.7 2.0 6.0





#25

2-Butanone

Concen: 242.291 ug/l

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 741711

Ion Ratio Lower Upper

43 100

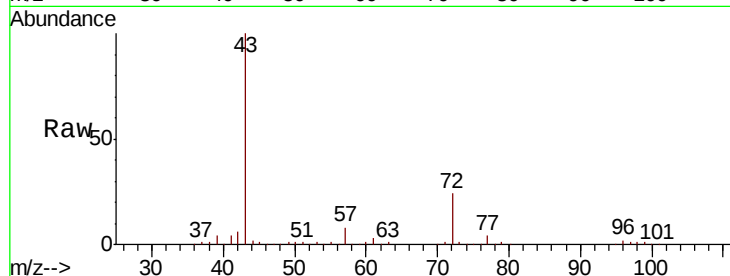
72 23.7 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 43.00 (42.70 to 43.70): VU028108.D (-868) (-)

Ion 72.00 (71.70 to 72.70): VU028108.D (-868) (-)

300000

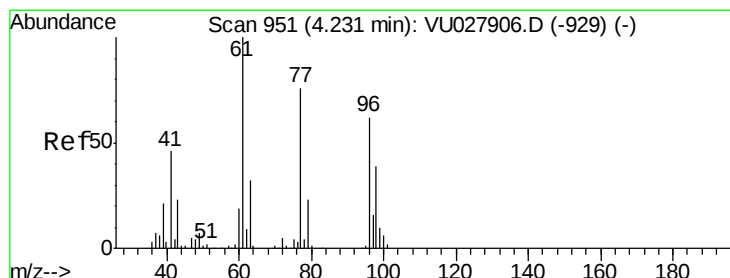
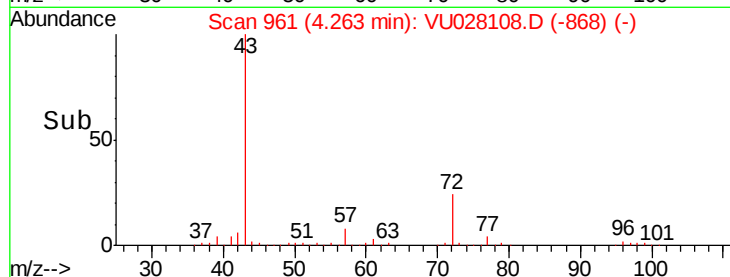
200000

100000

0

4.20 4.30

Time-->



#26

2,2-Dichloropropane

Concen: 48.650 ug/l

RT: 4.23 min Scan# 951

Delta R.T. -0.00 min

Lab File: VU028108.D

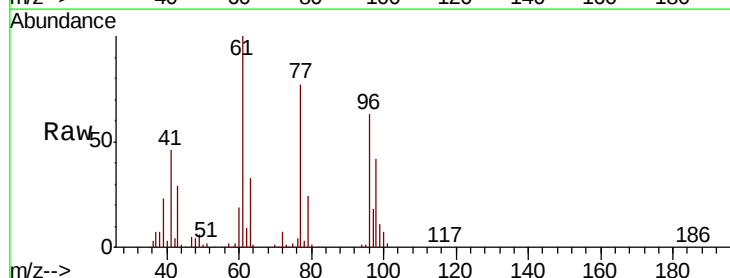
Acq: 13 Nov 2018 21:43

Tgt Ion: 77 Resp: 200611

Ion Ratio Lower Upper

77 100

97 22.5 11.2 33.5



Abundance Ion 76.90 (76.60 to 77.60): VU028108.D (-858) (-)

Ion 96.90 (96.60 to 97.60): VU028108.D (-858) (-)

80000

60000

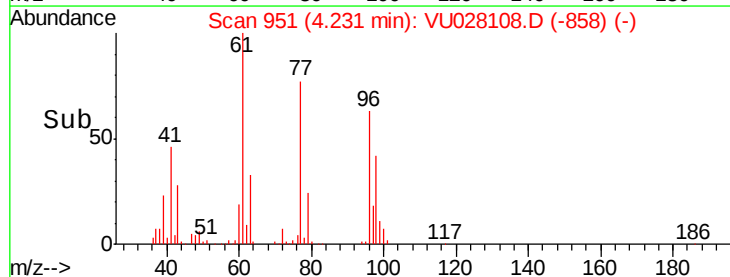
40000

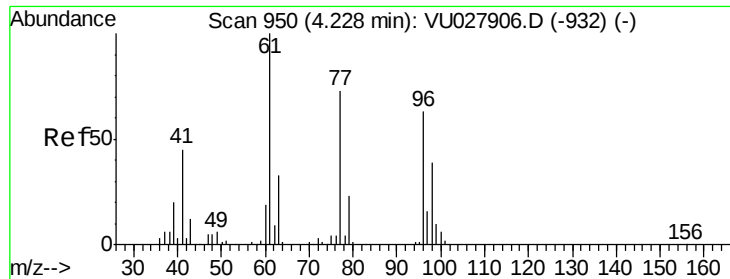
20000

0

4.10 4.20 4.30

Time-->





#27

cis-1,2-Dichloroethene

Concen: 52.227 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

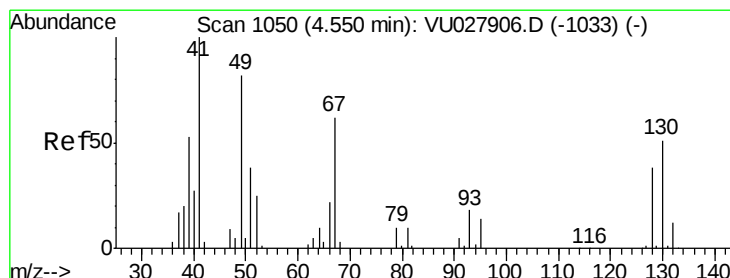
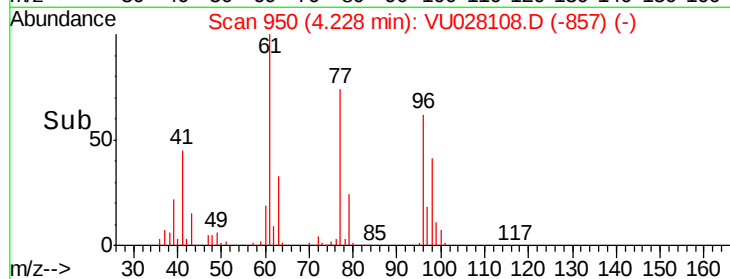
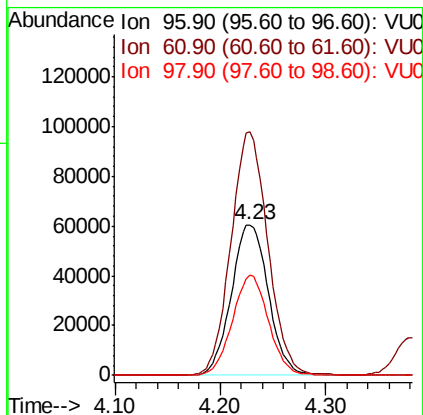
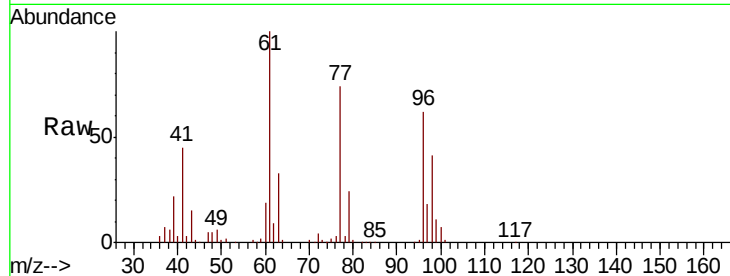
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	147766
Ion	Ratio	Lower	Upper
96	100		
61	160.9	0.0	329.6
98	64.7	0.0	127.2

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#28

Bromochloromethane

Concen: 51.614 ug/l

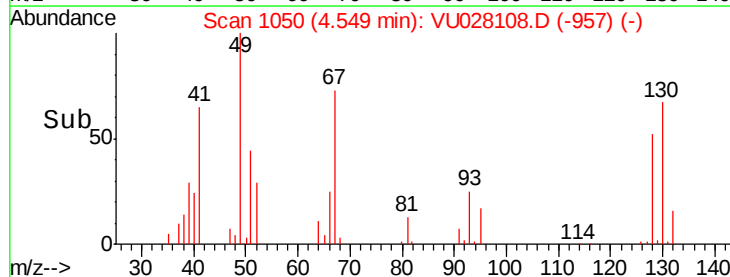
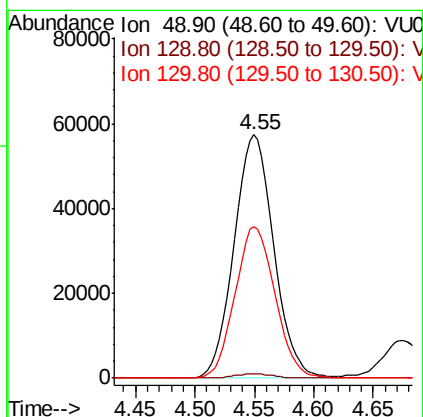
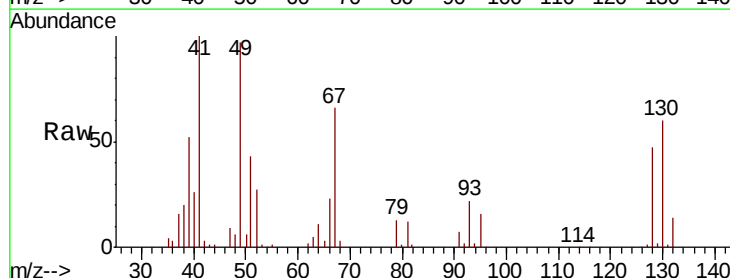
RT: 4.55 min Scan# 1050

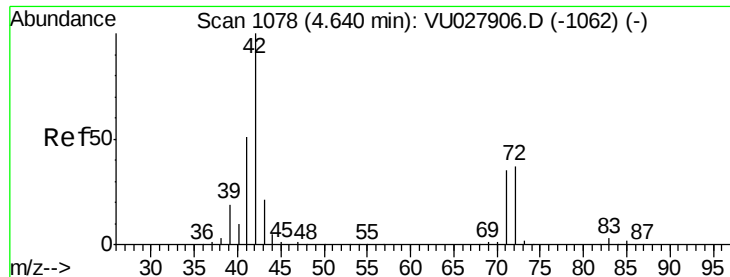
Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion:	49	Resp:	132955
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.0
130	62.6	47.8	71.6





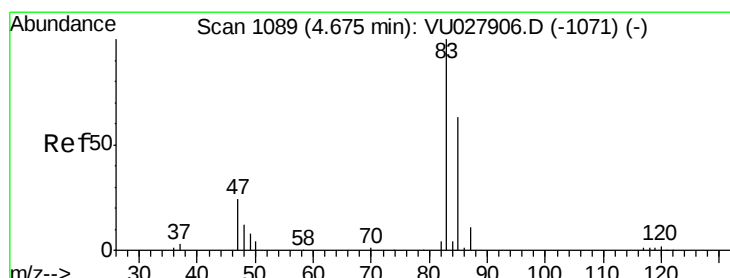
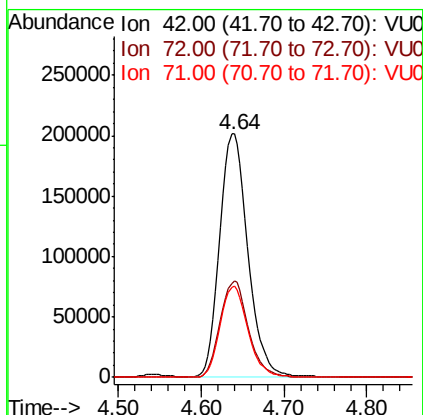
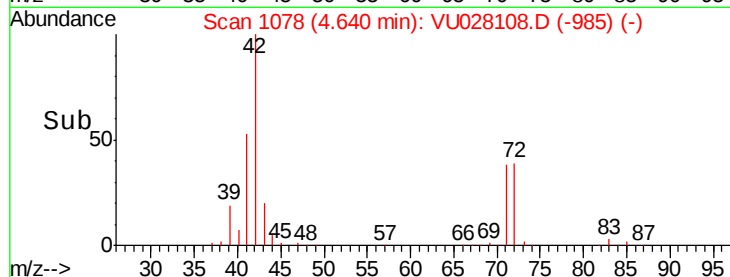
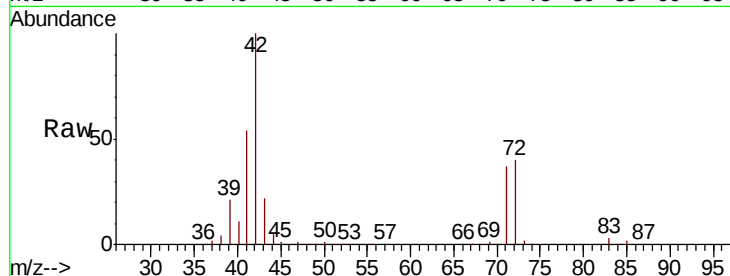
#29
Tetrahydrofuran
Concen: 232.679 ug/l
RT: 4.64 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.8	29.4	44.0
71	37.0	27.9	41.9

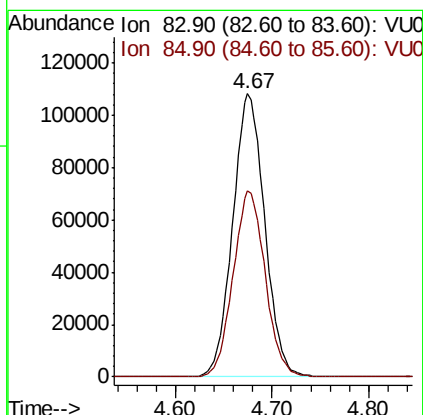
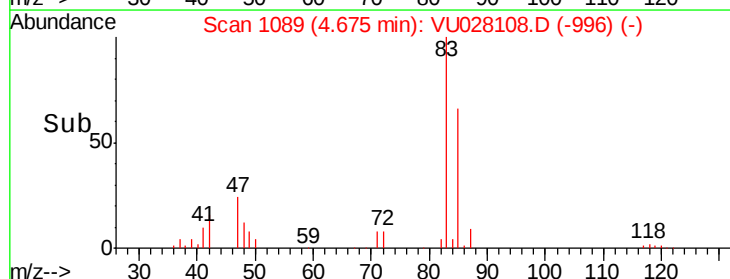
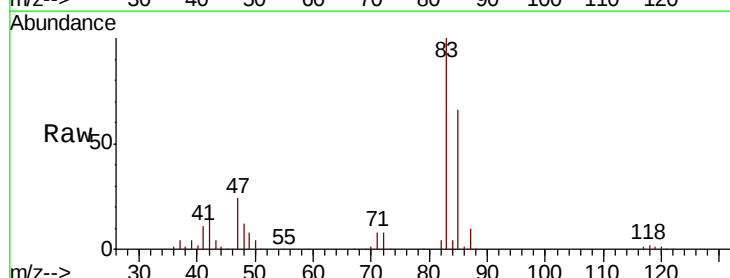
Manual Integrations
APPROVED

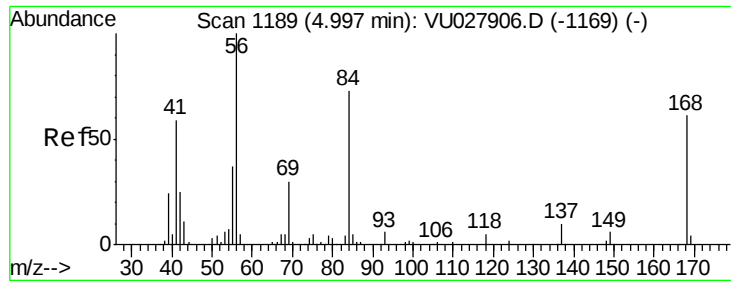
MMDadoda
11/14/2018 9:34:41 AM



#30
Chloroform
Concen: 49.354 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.6	76.0





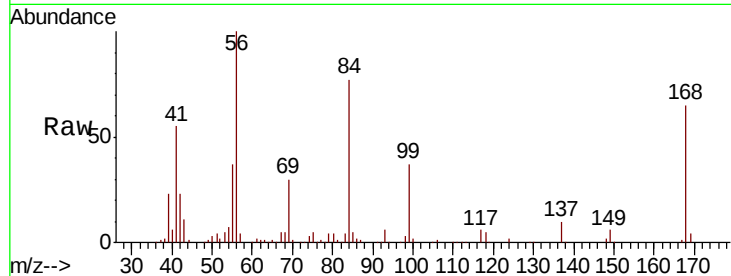
#31
Cyclohexane
Concen: 46.885 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

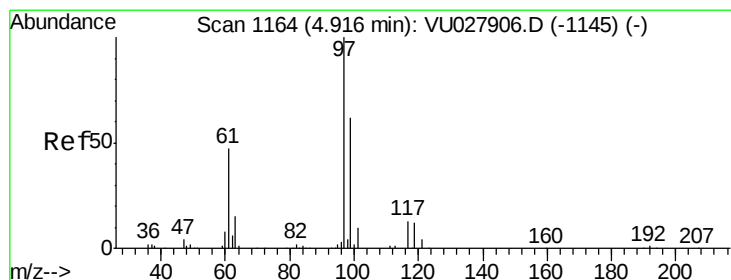
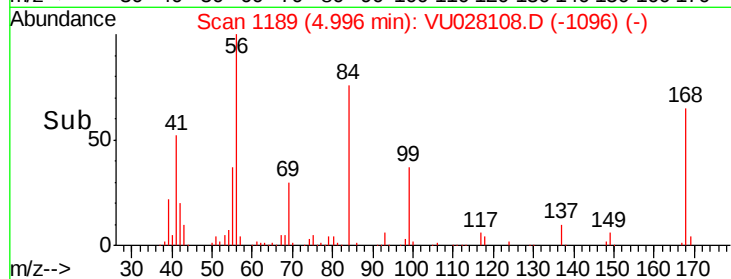
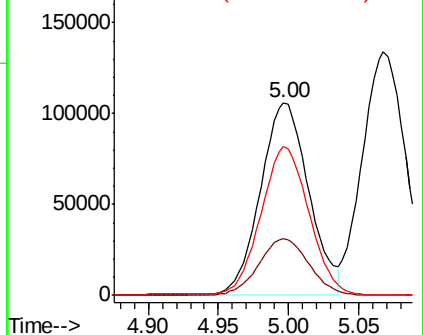
Tot Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.7	35.5
84	76.1	58.2	87.4

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM

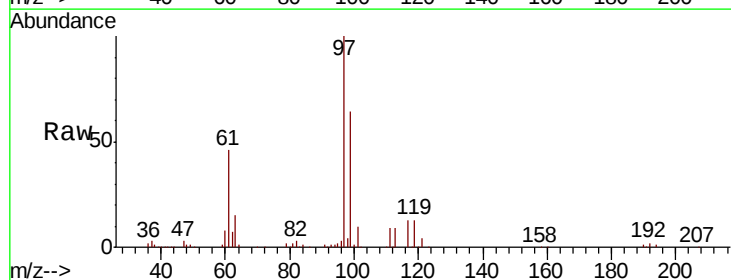


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

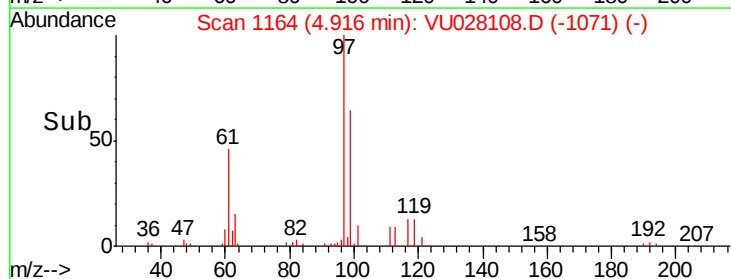
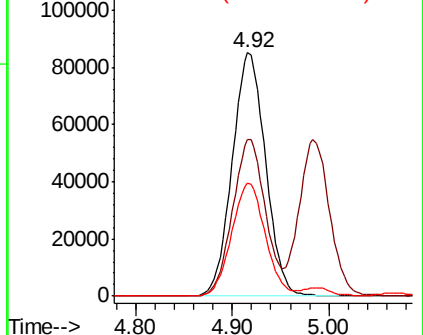


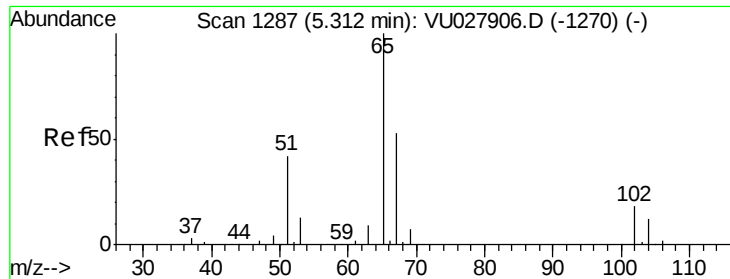
#32
1,1,1-Trichloroethane
Concen: 50.769 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.5	75.7
61	46.9	38.3	57.5



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





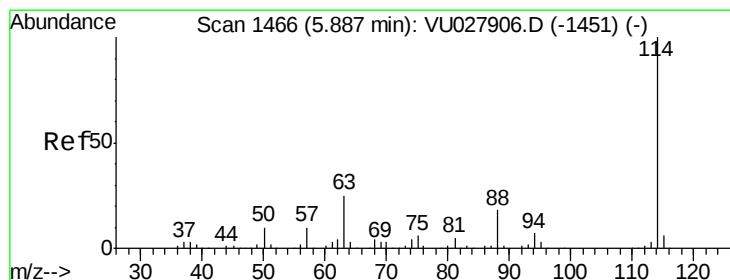
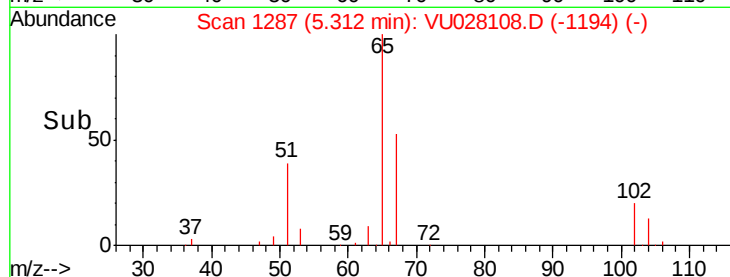
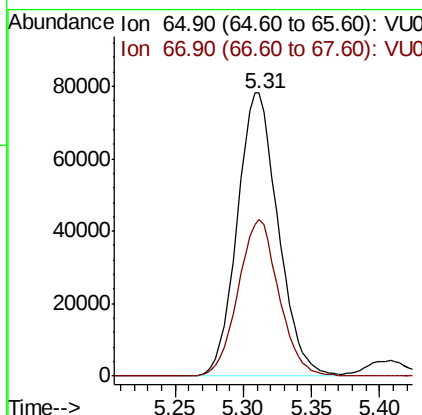
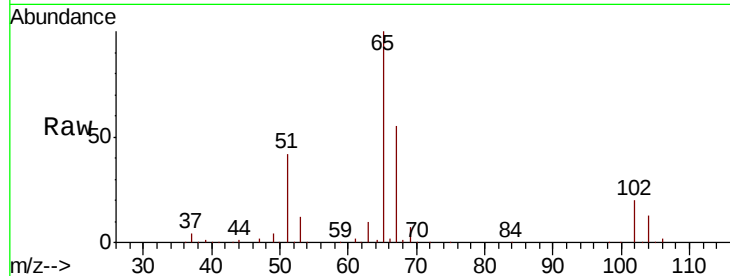
#33
 1,2-Dichloroethane-d4
 Concen: 52.401 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.1	0.0	109.0

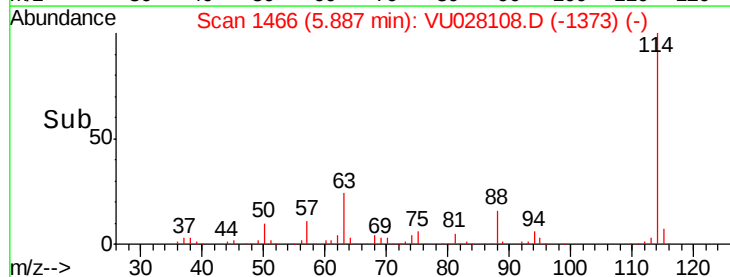
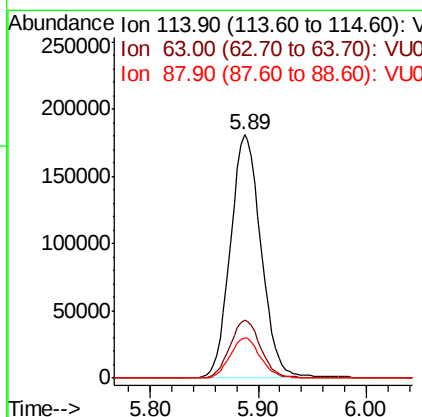
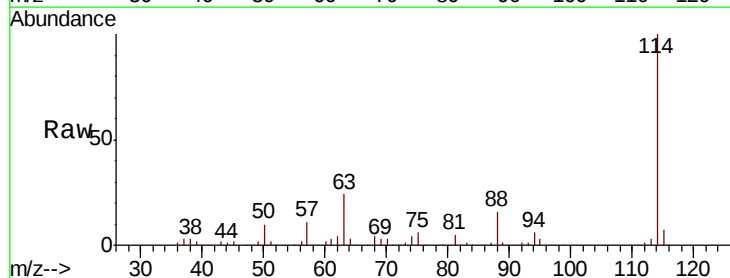
Manual Integrations
 APPROVED

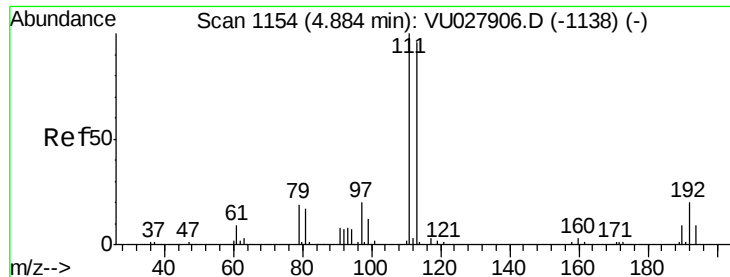
MMDadoda
 11/14/2018 9:34:41 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	50.8
88	16.5	0.0	35.8





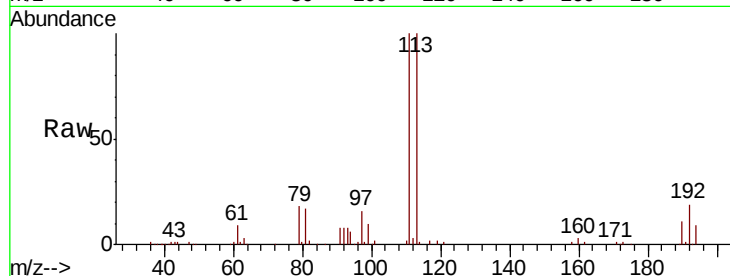
#35
Dibromofluoromethane
Concen: 54.427 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

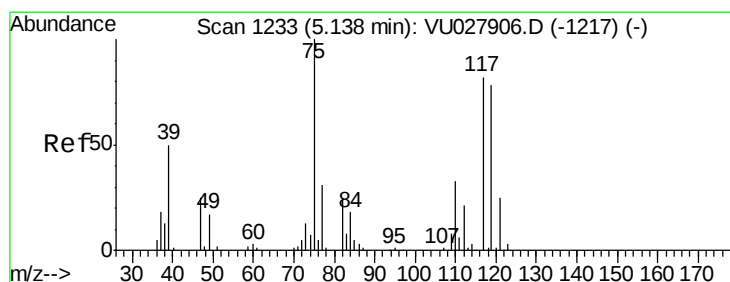
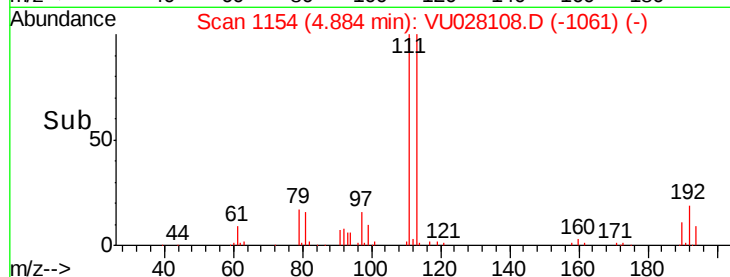
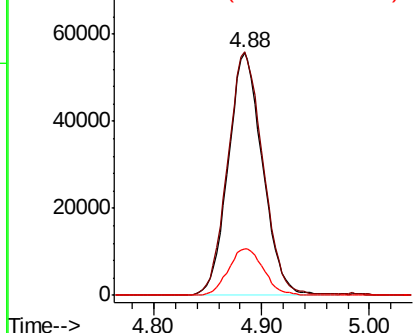
Tot Ion	Ratio	Resp	Lower	Upper
113	100	123473		
111	103.1	83.0	124.6	
192	19.8	15.6	23.4	

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM

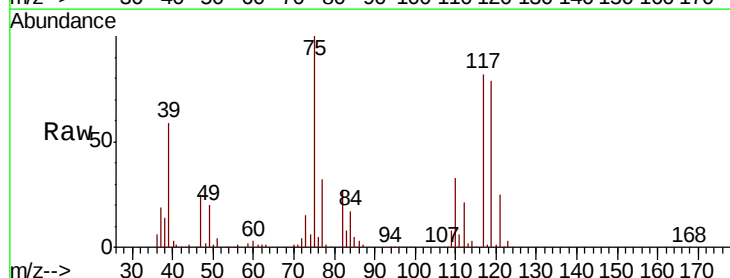


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

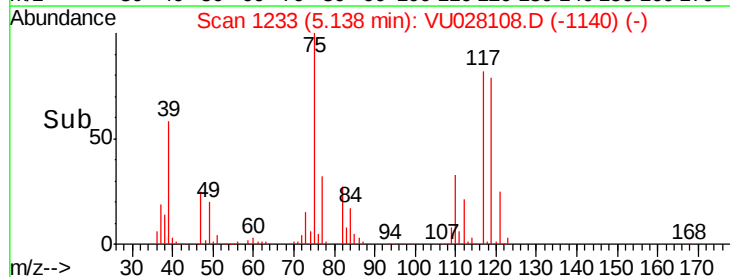
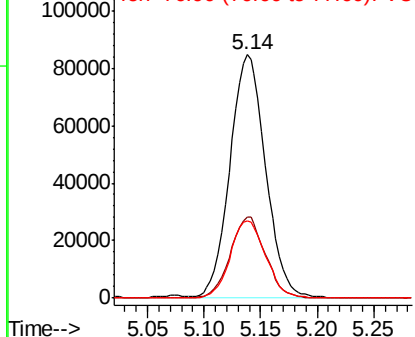


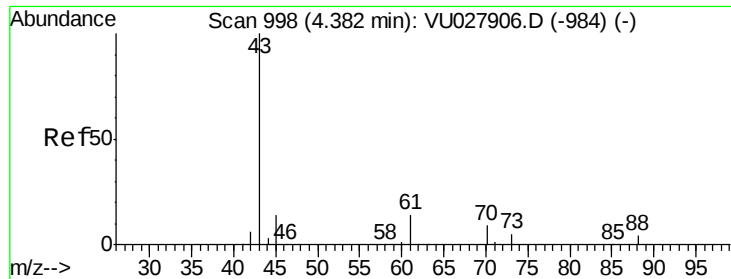
#36
1,1-Dichloropropene
Concen: 49.098 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	185019		
110	32.8	16.5	49.5	
77	31.9	24.9	37.3	



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0





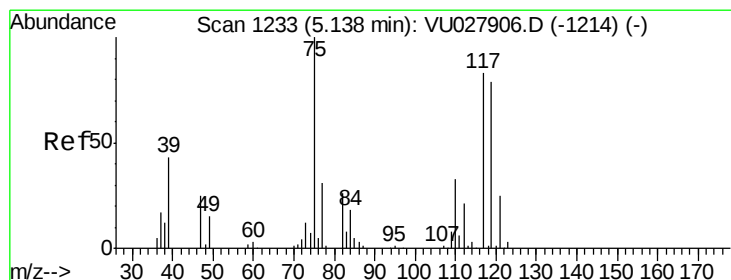
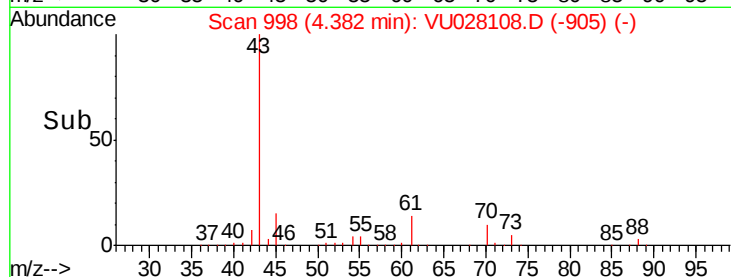
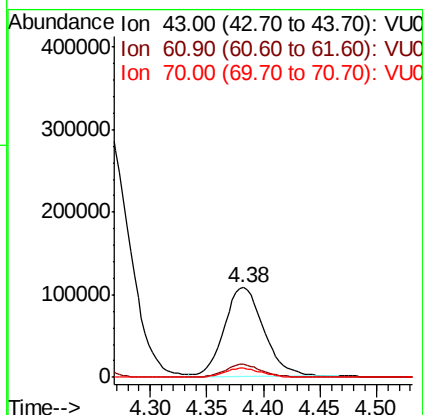
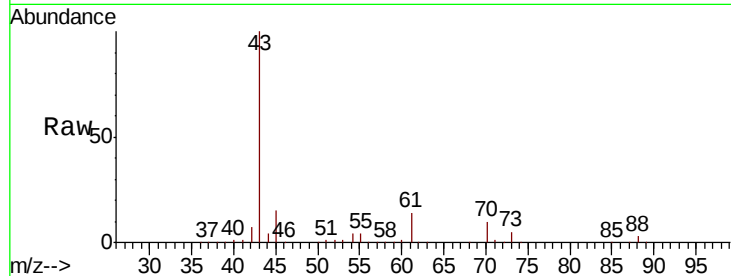
#37
Ethyl Acetate
Concen: 47.790 ug/l
RT: 4.38 min Scan# 998
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.3	15.5
70	9.6	7.0	10.6

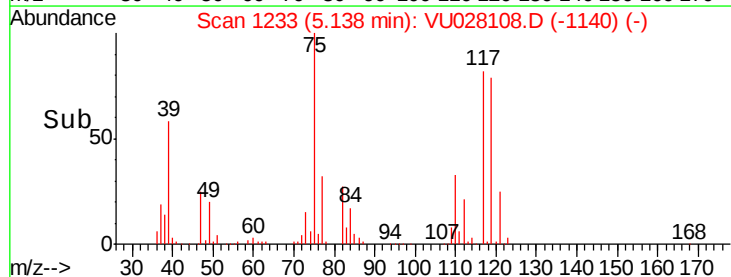
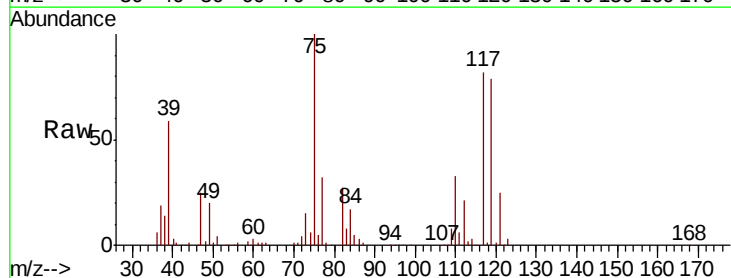
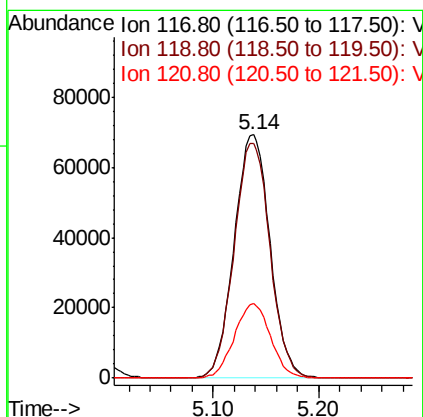
Manual Integrations
APPROVED

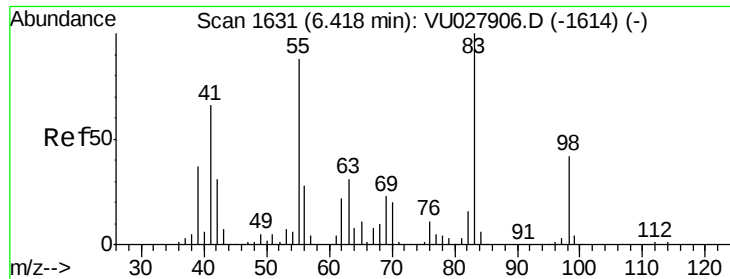
MMDadoda
11/14/2018 9:34:41 AM



#38
Carbon Tetrachloride
Concen: 48.969 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.5	76.0	114.0
121	30.6	24.5	36.7





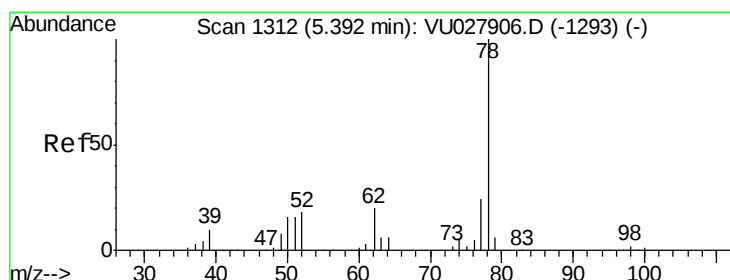
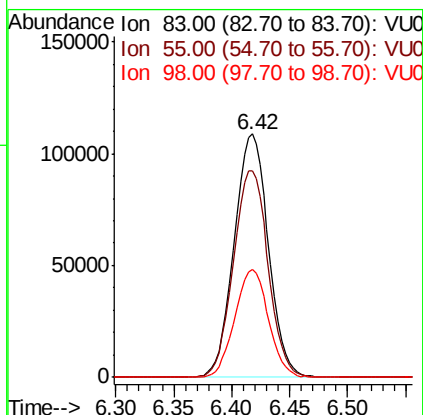
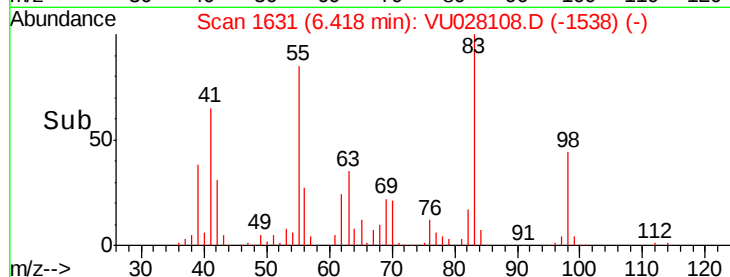
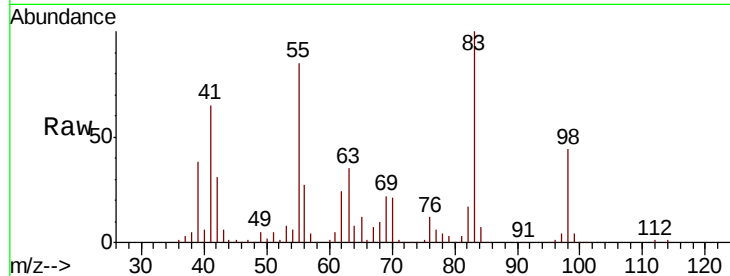
#39
Methvlcvclohexane
Concen: 48.940 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.1	70.3	105.5
98	44.5	34.0	51.0

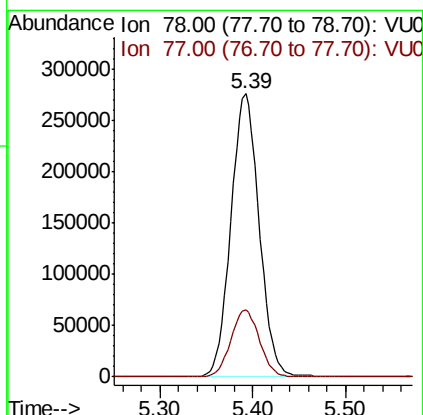
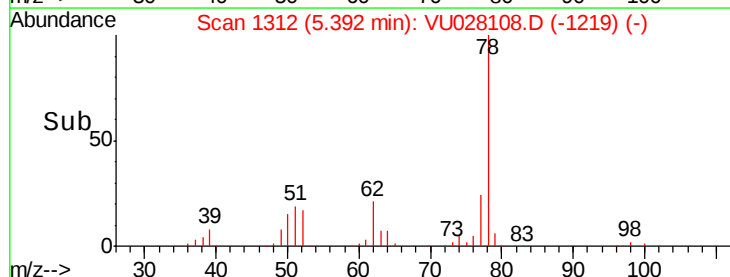
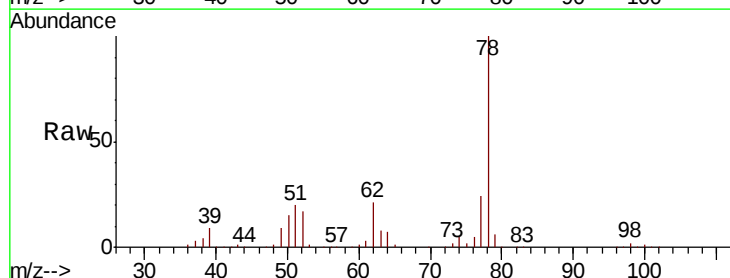
Manual Integrations
APPROVED

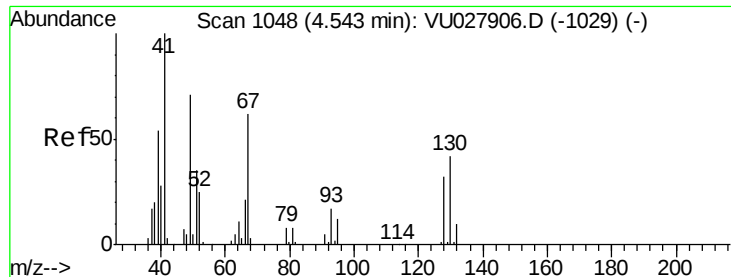
MMDadoda
11/14/2018 9:34:41 AM



#40
Benzene
Concen: 50.624 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9





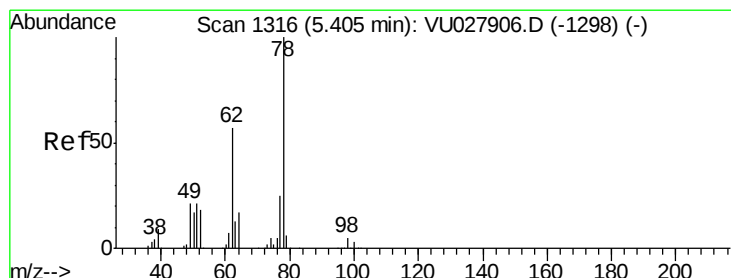
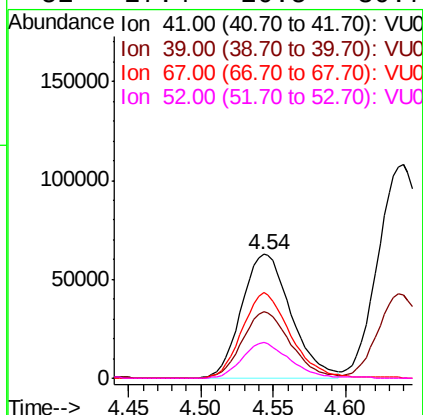
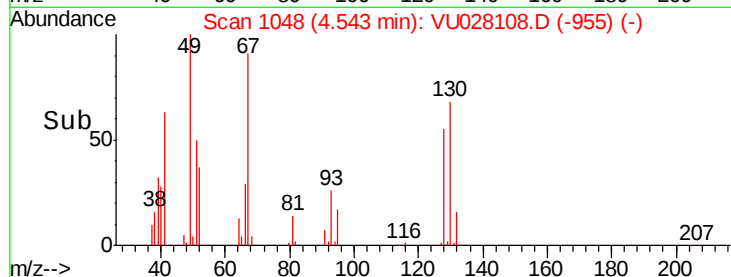
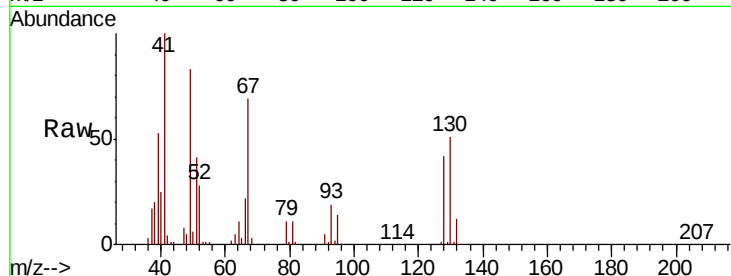
#41
Methacrylonitrile
Concen: 50.585 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.5	42.2	63.4	
67	67.5	49.5	74.3	
52	27.4	20.5	30.7	

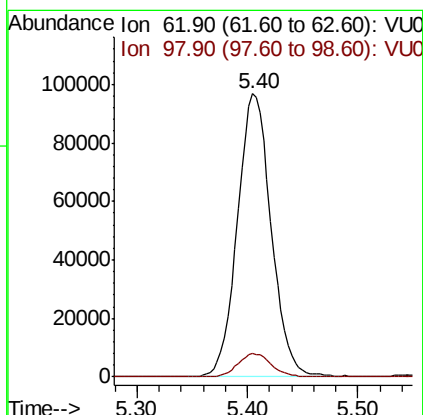
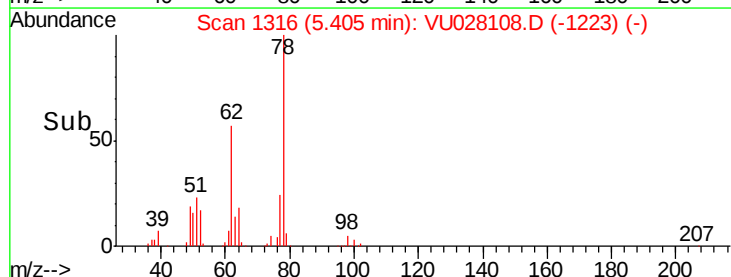
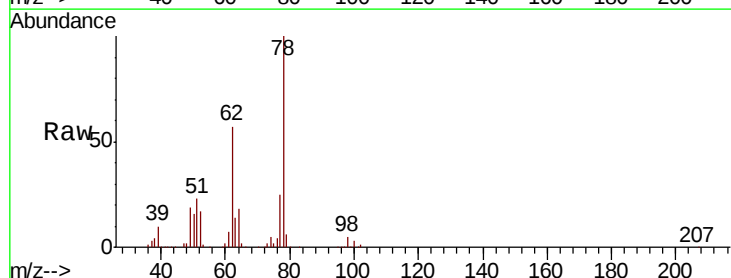
Manual Integrations
APPROVED

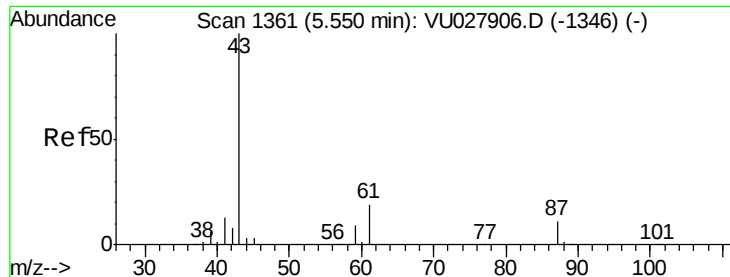
MMDadoda
11/14/2018 9:34:41 AM



#42
1,2-Dichloroethane
Concen: 50.225 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.1	0.0	17.2	





#43

Isopropyl Acetate

Concen: 49.383 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

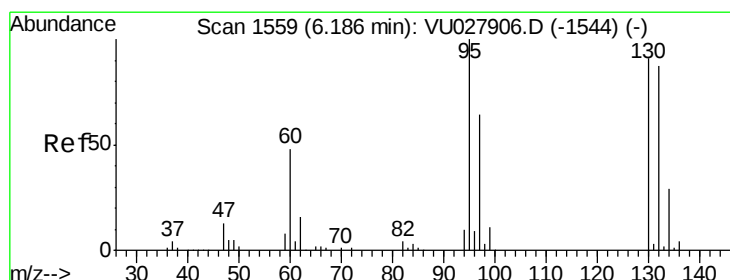
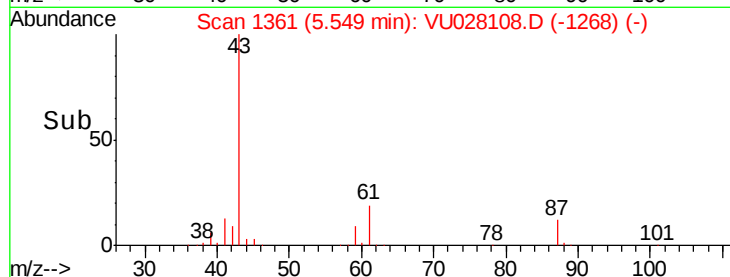
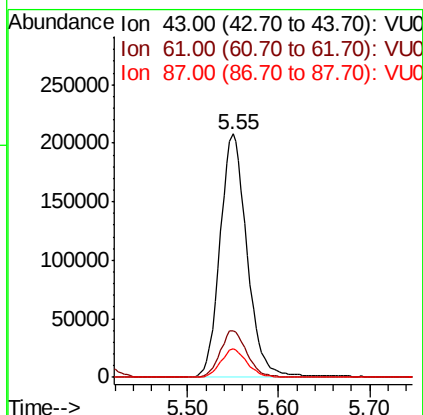
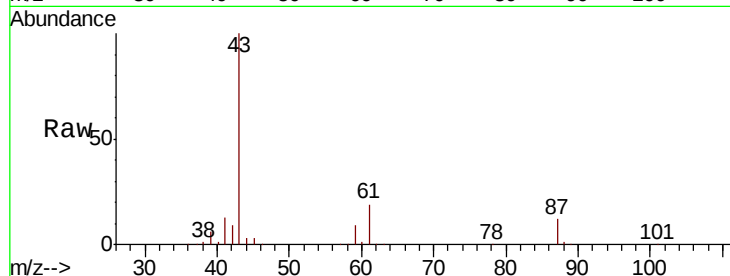
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	427190
Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.0	22.4
87	11.4	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#44

Trichloroethene

Concen: 51.732 ug/l

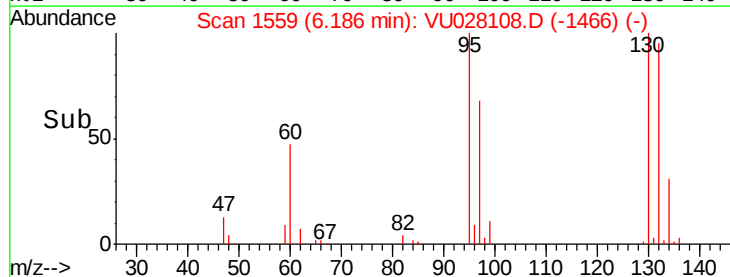
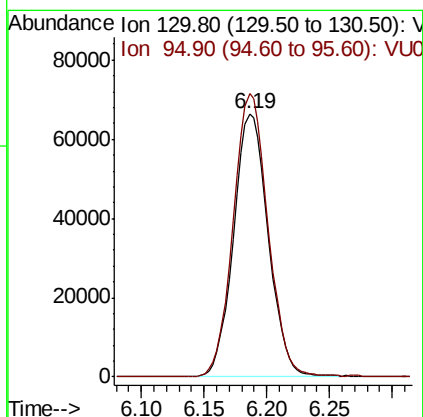
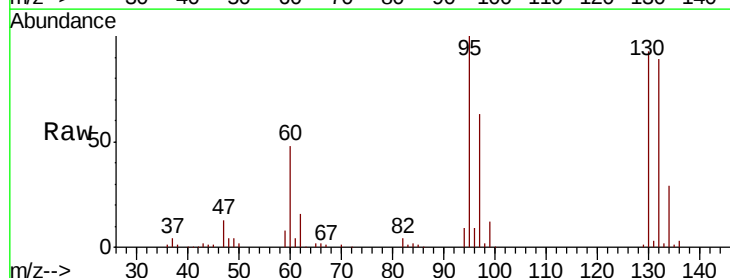
RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion:	130	Resp:	128115
Ion	Ratio	Lower	Upper
130	100		
95	107.6	0.0	219.2





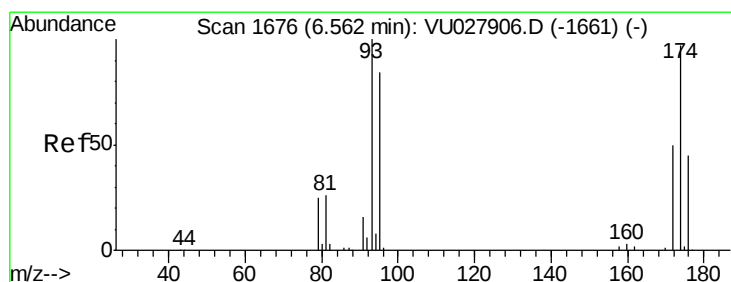
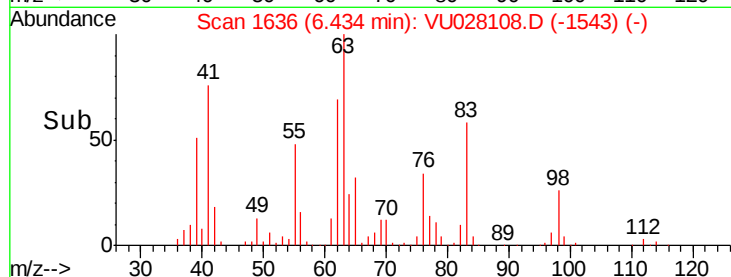
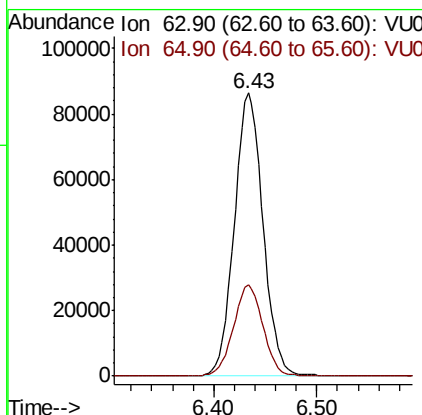
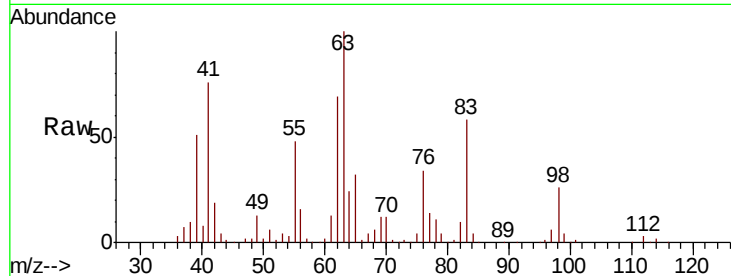
#45
 1,2-Dichloropropane
 Concen: 50.411 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 167499
 Ion Ratio Lower Upper
 63 100
 65 32.1 24.4 36.6

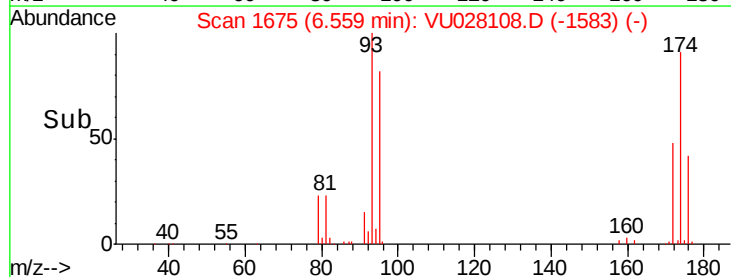
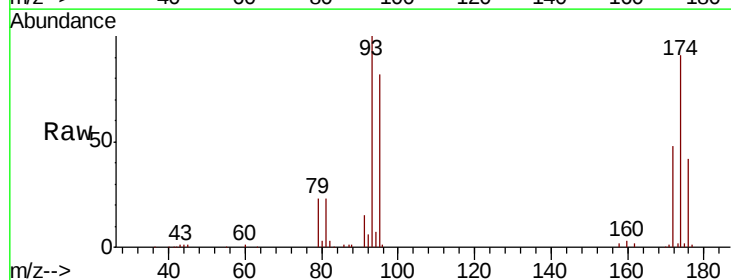
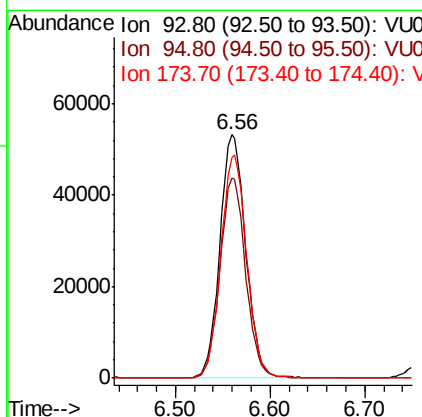
Manual Integrations
 APPROVED

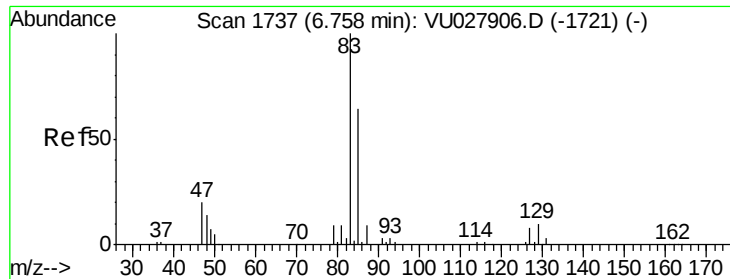
MMDadoda
 11/14/2018 9:34:41 AM



#46
 Dibromomethane
 Concen: 52.777 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Tgt Ion: 93 Resp: 100798
 Ion Ratio Lower Upper
 93 100
 95 81.8 68.5 102.7
 174 92.2 76.1 114.1





#47

Bromodichloromethane

Concen: 52.203 ug/l

RT: 6.76 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

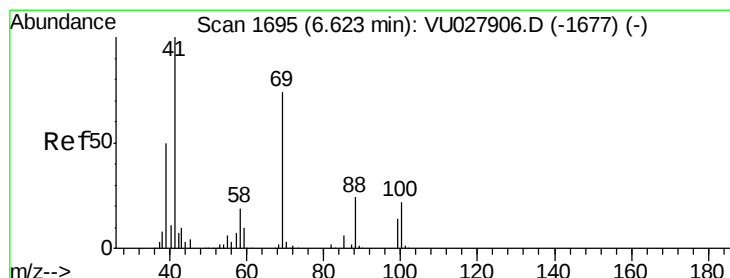
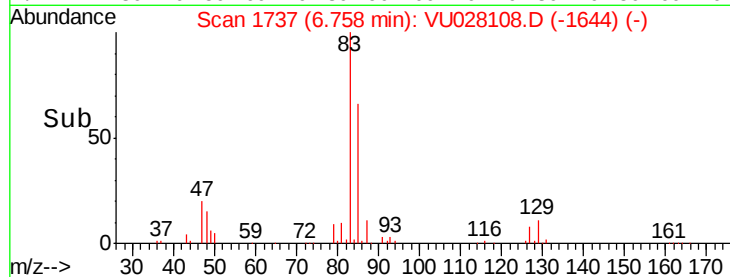
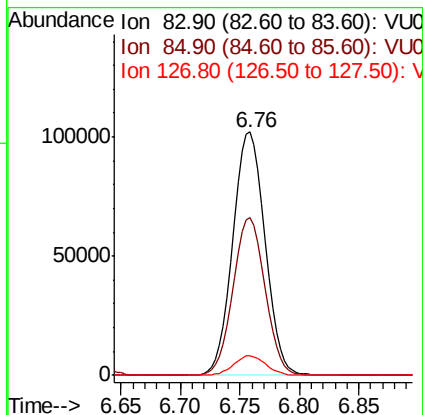
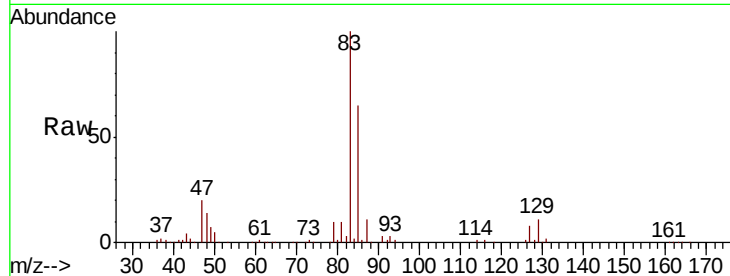
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	192138
Ion Ratio	Lower	Upper	
83	100		
85	64.6	51.0	76.6
127	7.9	6.2	9.4

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#48

Methyl methacrylate

Concen: 51.259 ug/l

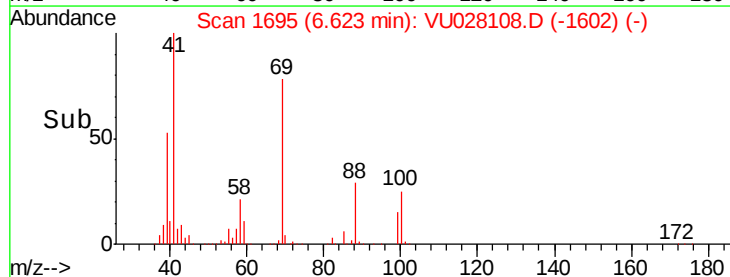
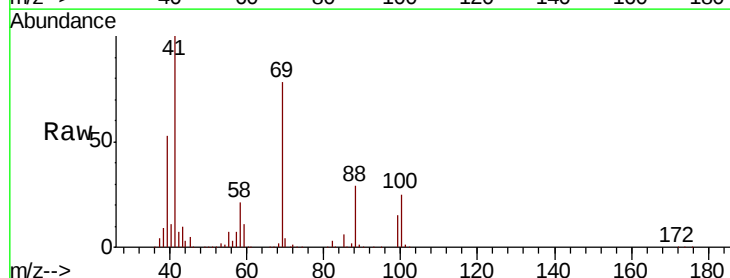
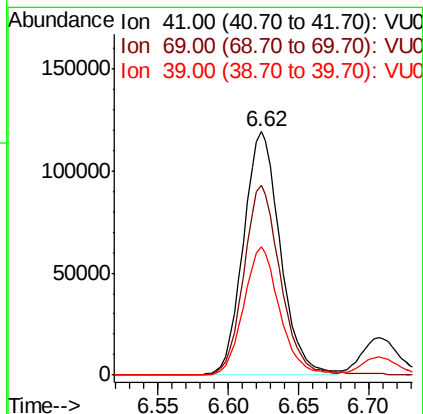
RT: 6.62 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion:	41	Resp:	217292
Ion Ratio	Lower	Upper	
41	100		
69	78.1	59.8	89.8
39	51.1	40.0	60.0





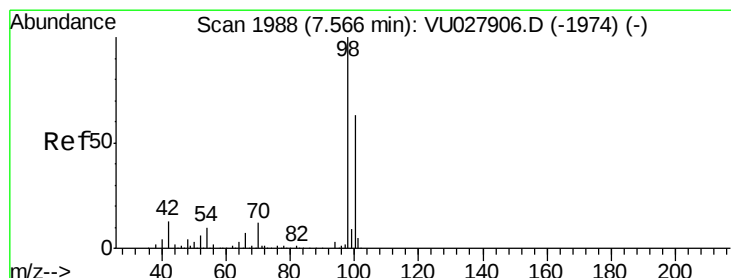
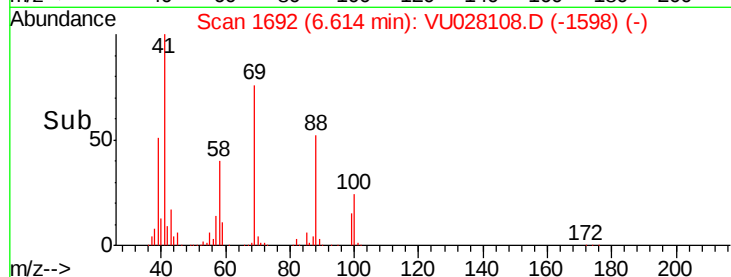
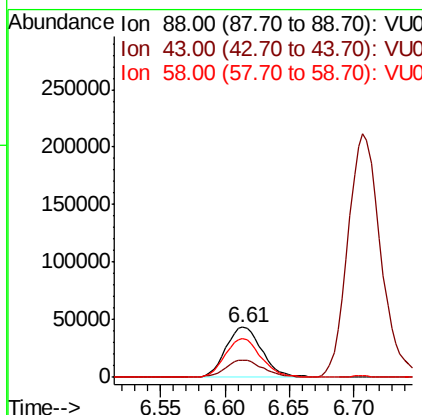
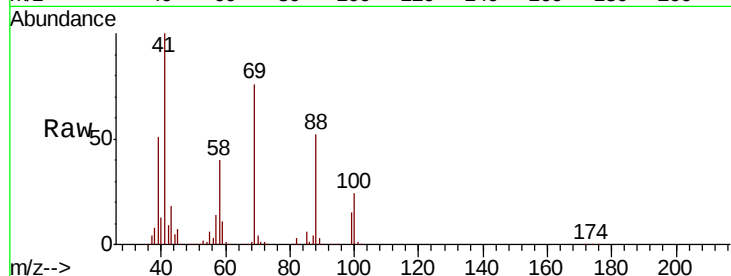
#49
1,4-Dioxane
Concen: 1217.676 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.6	30.5	45.7
58	78.3	67.1	100.7

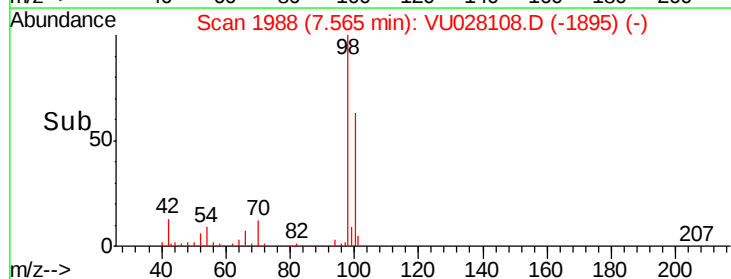
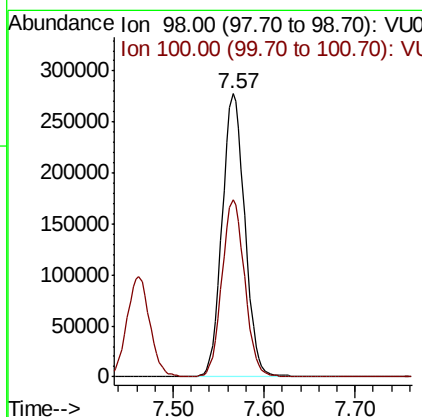
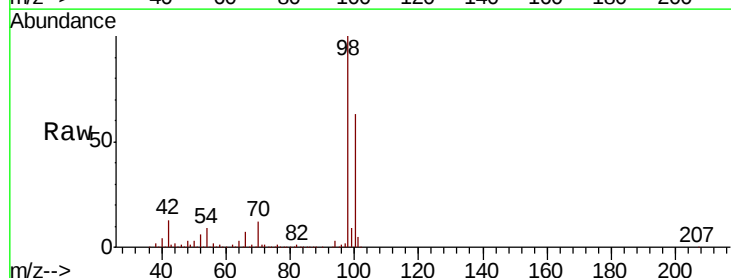
Manual Integrations
APPROVED

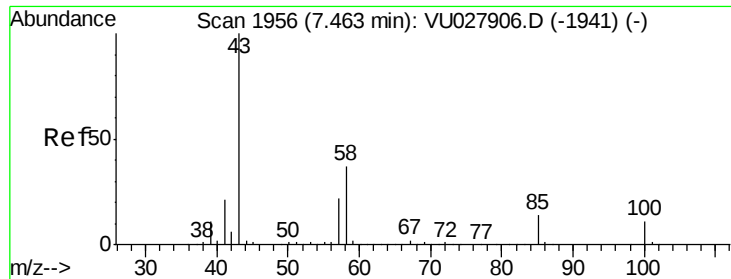
MMDadoda
11/14/2018 9:34:41 AM



#50
Toluene-d8
Concen: 55.011 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.7	50.1	75.1





#51

4-Methyl-2-Pentanone

Concen: 245.733 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1419616

Ion Ratio Lower Upper

43 100

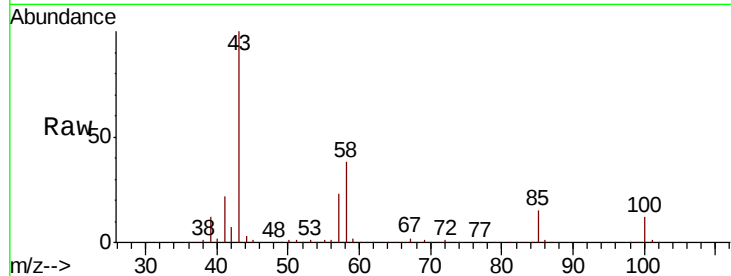
58 38.1 29.5 44.3

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)

7.46

800000

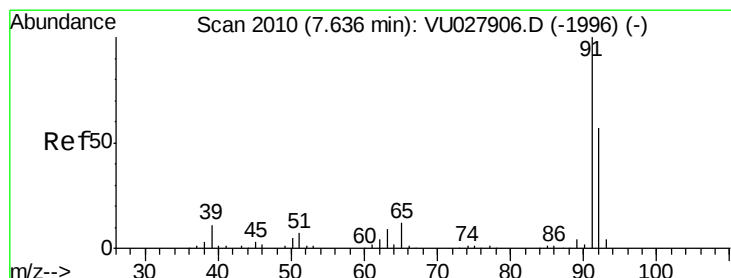
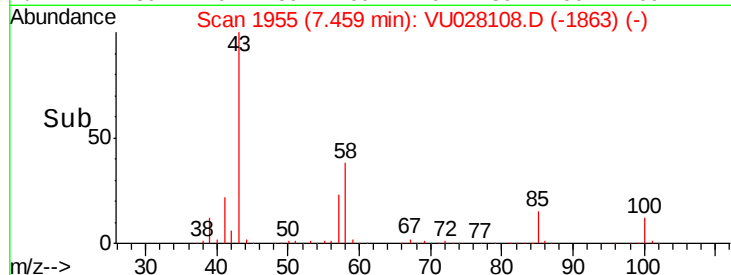
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 50.848 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028108.D

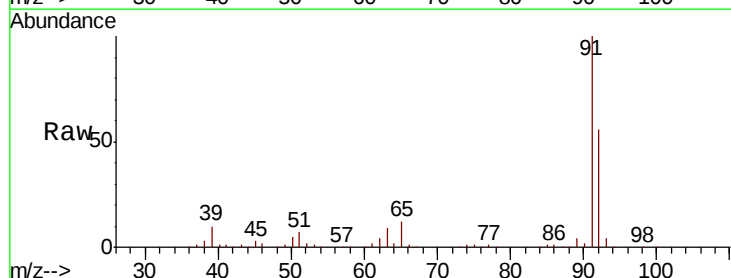
Acq: 13 Nov 2018 21:43

Tgt Ion: 92 Resp: 344406

Ion Ratio Lower Upper

92 100

91 176.7 141.2 211.8



Abundance Ion 92.00 (91.70 to 92.70): VU027906.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU027906.D (-1996) (-)

7.64

400000

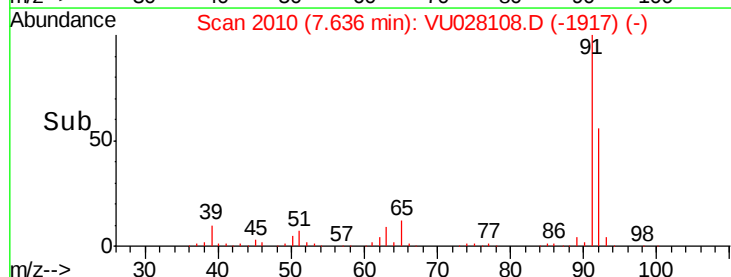
300000

200000

100000

0

Time-->





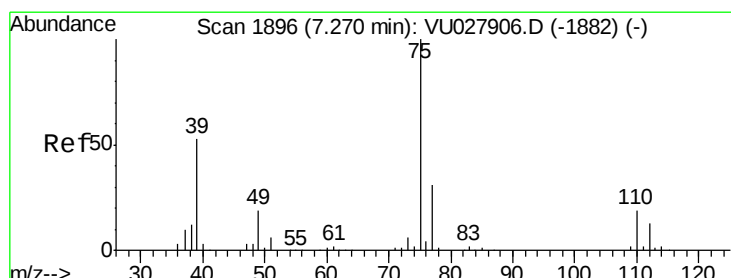
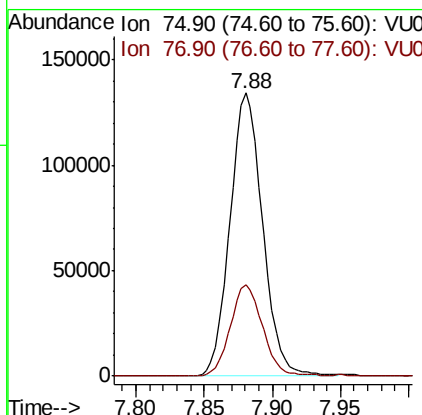
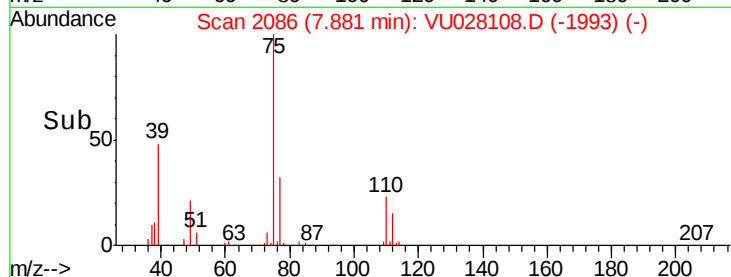
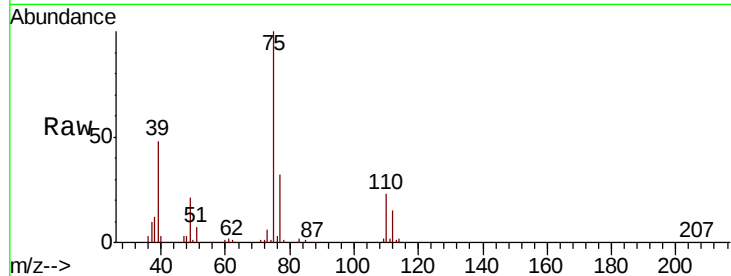
#53
t-1,3-Dichloropropene
Concen: 48.910 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.1	37.7

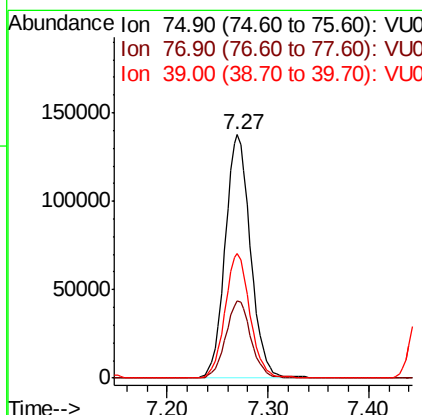
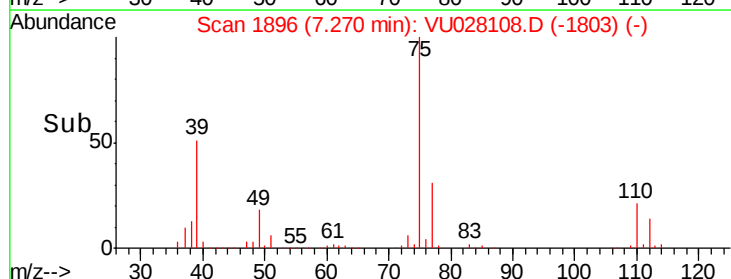
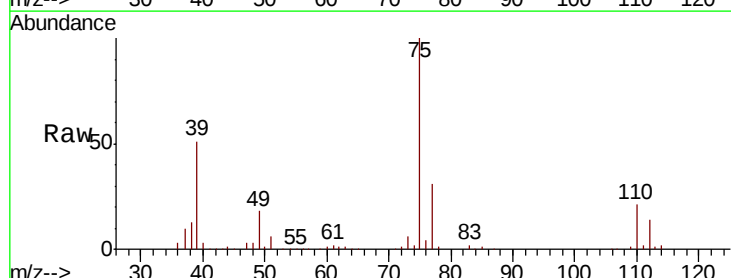
Manual Integrations
APPROVED

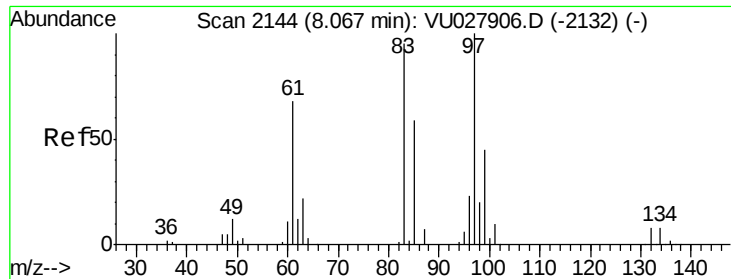
MMDadoda
11/14/2018 9:34:41 AM



#54
cis-1,3-Dichloropropene
Concen: 53.193 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.6	37.0
39	51.1	42.6	64.0





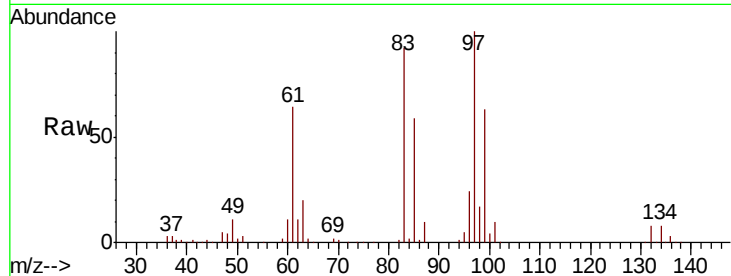
#55
 1,1,2-Trichloroethane
 Concen: 52.933 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

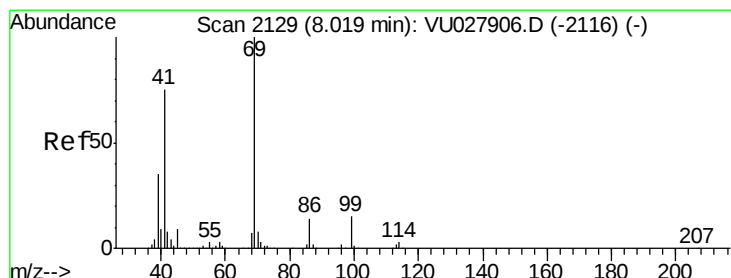
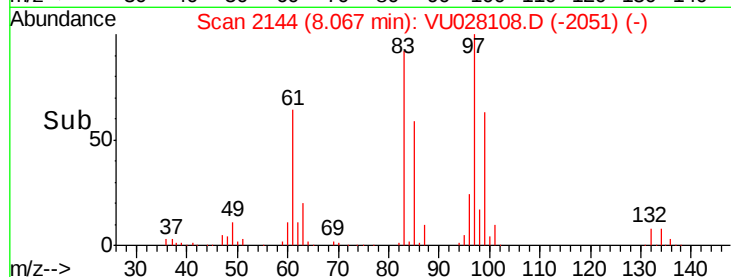
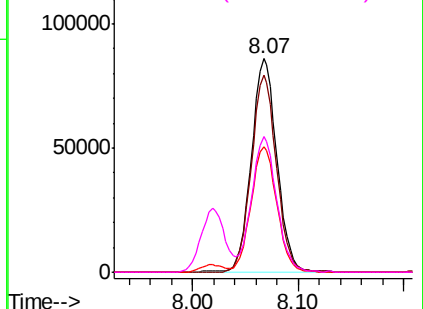
Tot Ion:	97	Resp:	145866
Ion Ratio	Lower	Upper	
97	100		
83	92.3	76.1	114.1
85	58.6	48.9	73.3
99	63.1	52.0	78.0

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:41 AM

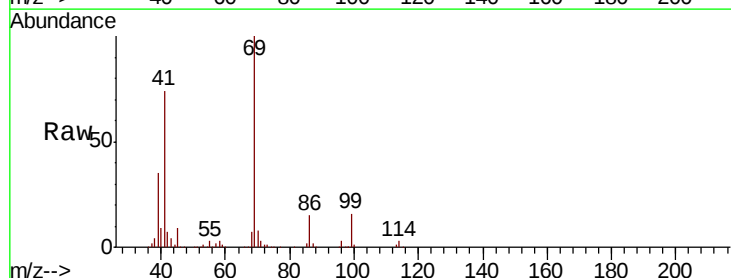


Abundance Ion 96.90 (96.60 to 97.60): VU0
 Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0
 Ion 98.90 (98.60 to 99.60): VU0

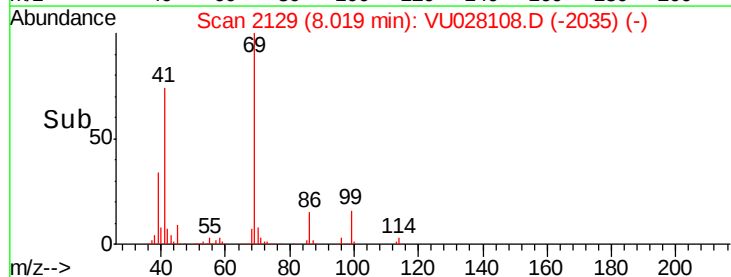
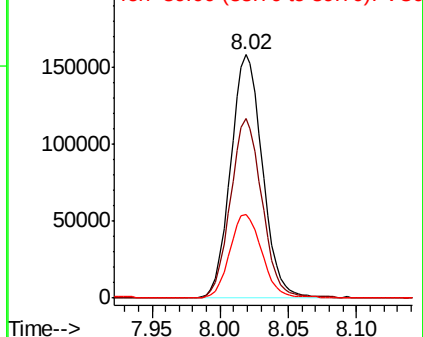


#56
 Ethyl methacrylate
 Concen: 52.709 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Tgt Ion:	69	Resp:	256145
Ion Ratio	Lower	Upper	
69	100		
41	73.5	59.8	89.6
39	34.6	28.6	42.8



Abundance Ion 69.00 (68.70 to 69.70): VU0
 Ion 41.00 (40.70 to 41.70): VU0
 Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 51.005 ug/l

RT: 8.24 min Scan# 2199

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 256029

Ion Ratio Lower Upper

76 100

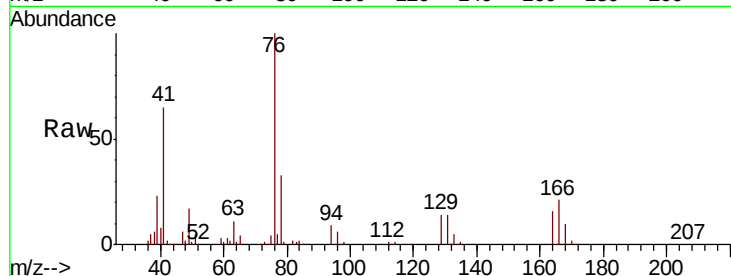
78 32.6 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

8.24

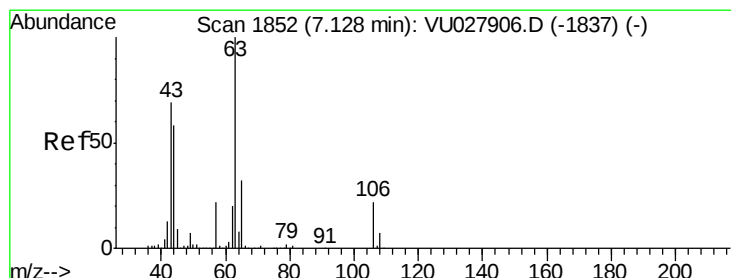
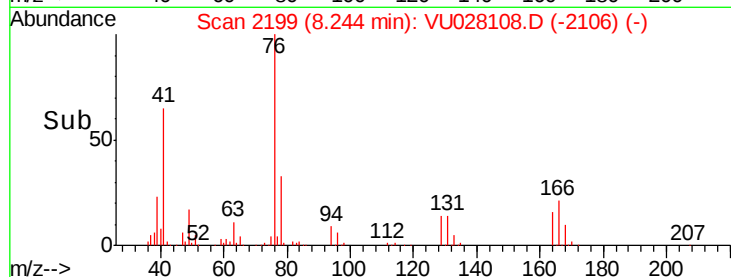
150000

100000

50000

0

Time--> 8.15 8.20 8.25 8.30 8.35



#58

2-Chloroethyl Vinyl ether

Concen: 264.441 ug/l

RT: 7.13 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VU028108.D

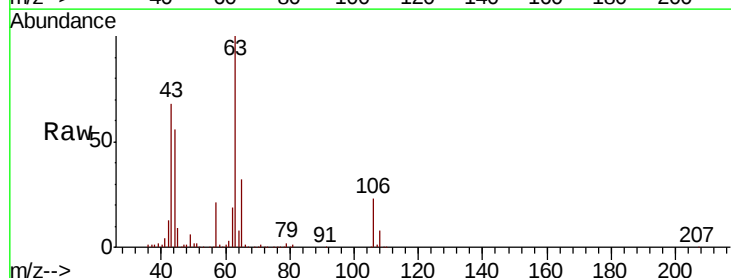
Acq: 13 Nov 2018 21:43

Tgt Ion: 63 Resp: 688255

Ion Ratio Lower Upper

63 100

106 23.0 17.8 26.6



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

7.13

400000

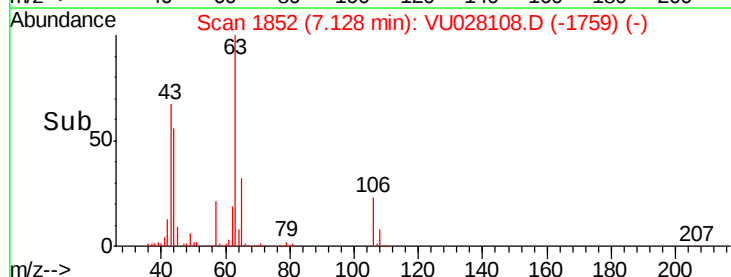
300000

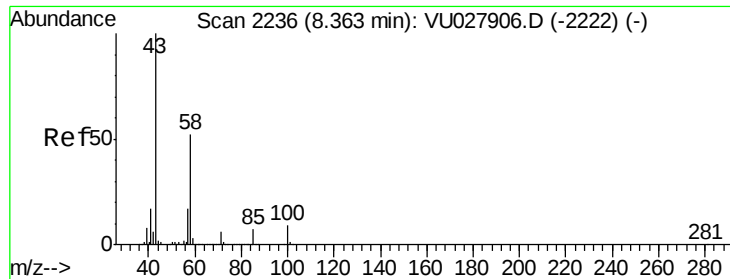
200000

100000

0

Time--> 7.00 7.10 7.20 7.30





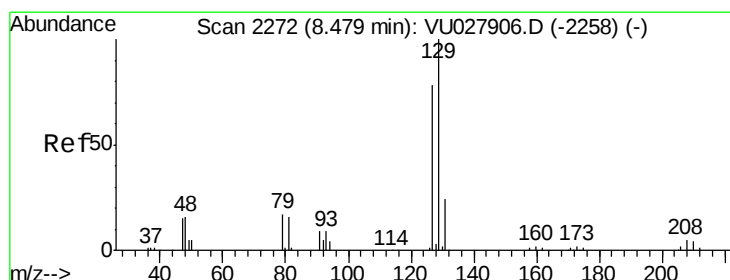
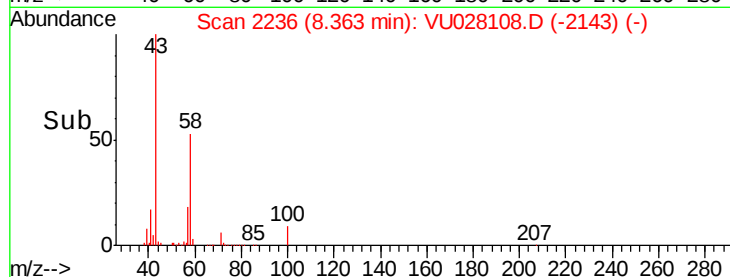
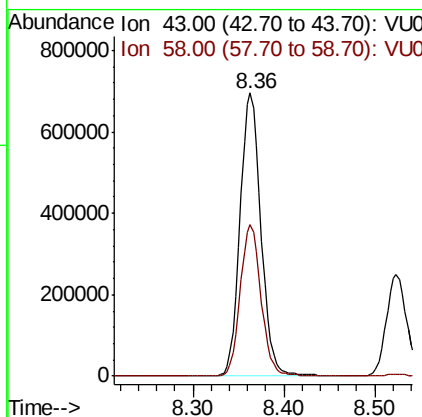
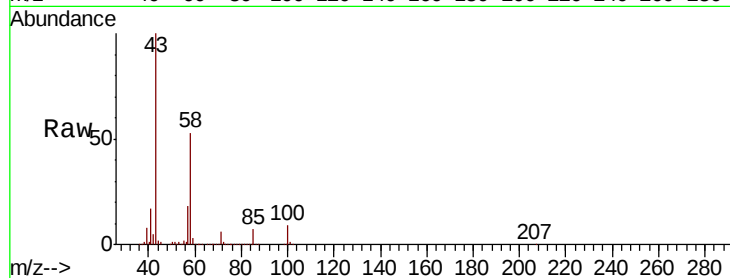
#59
2-Hexanone
Concen: 247.991 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1108069
Ion Ratio Lower Upper
43 100
58 53.3 25.8 77.3

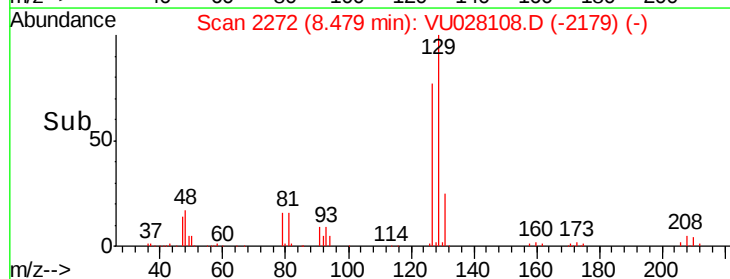
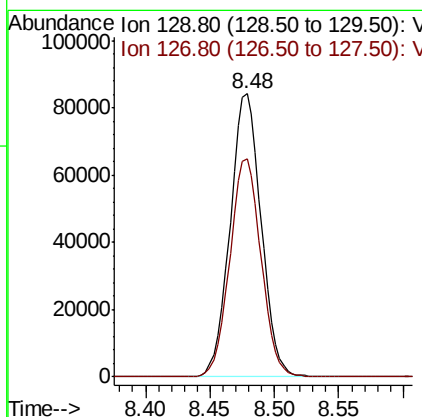
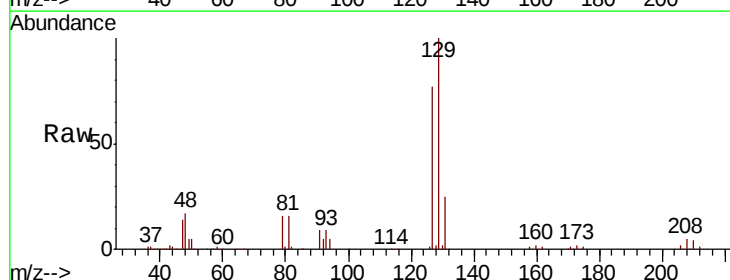
Manual Integrations
APPROVED

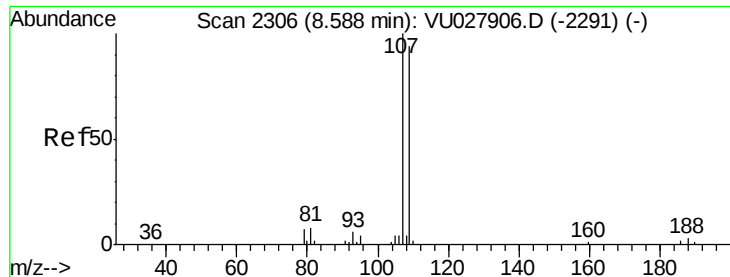
MMDadoda
11/14/2018 9:34:41 AM



#60
Dibromochloromethane
Concen: 53.903 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion: 129 Resp: 140558
Ion Ratio Lower Upper
129 100
127 77.4 39.2 117.6





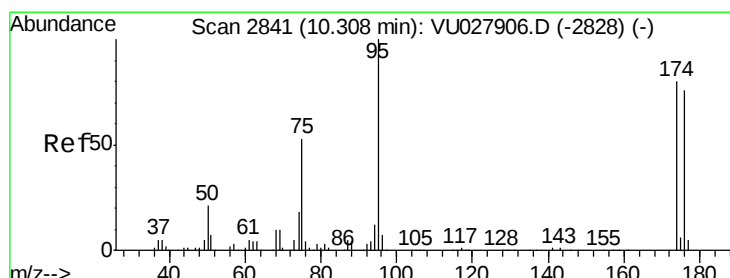
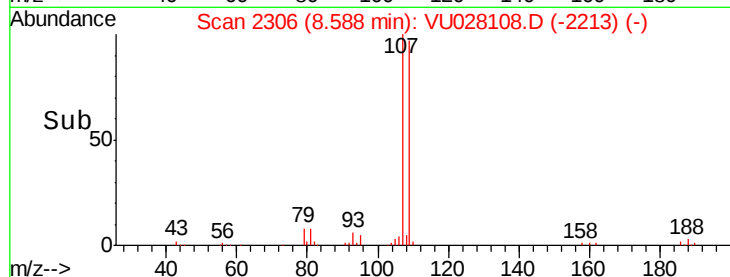
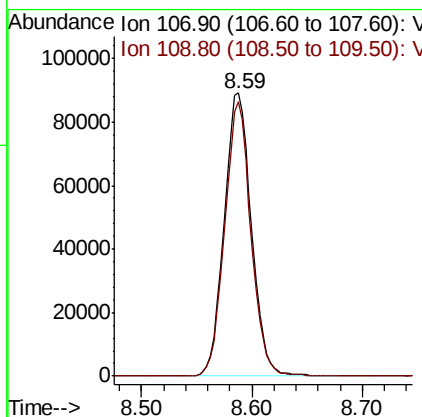
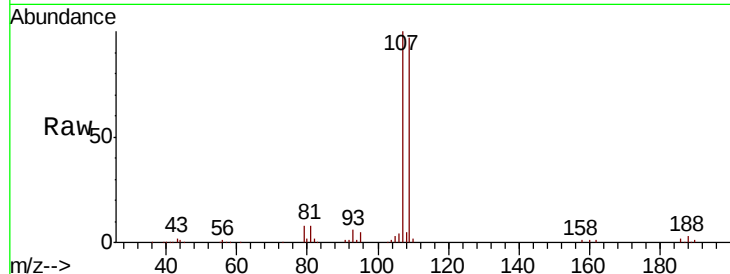
#61
 1,2-Dibromoethane
 Concen: 51.962 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.6	73.8	110.8

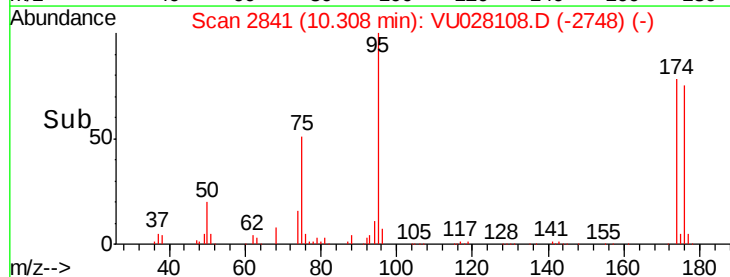
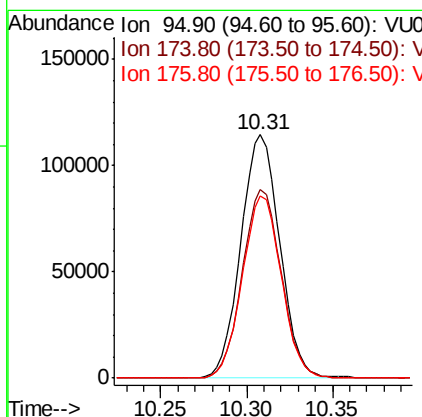
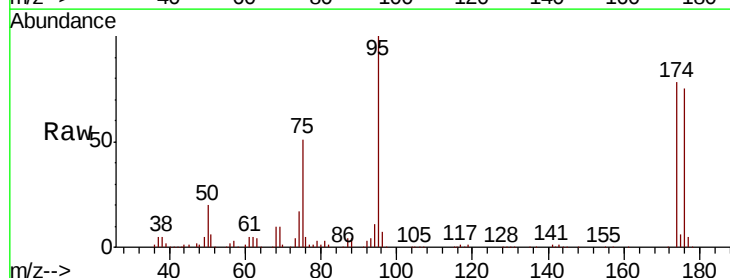
Manual Integrations
 APPROVED

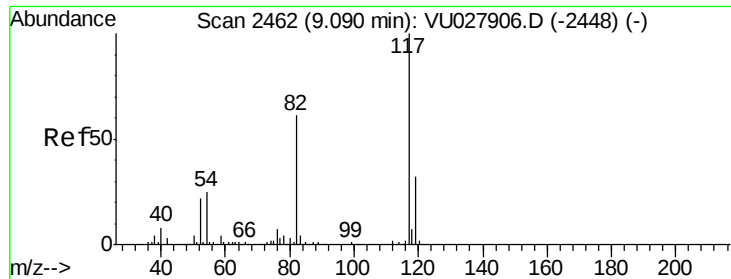
MMDadoda
 11/14/2018 9:34:41 AM



#62
 4-Bromofluorobenzene
 Concen: 55.716 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.5	0.0	156.4
176	75.0	0.0	150.8





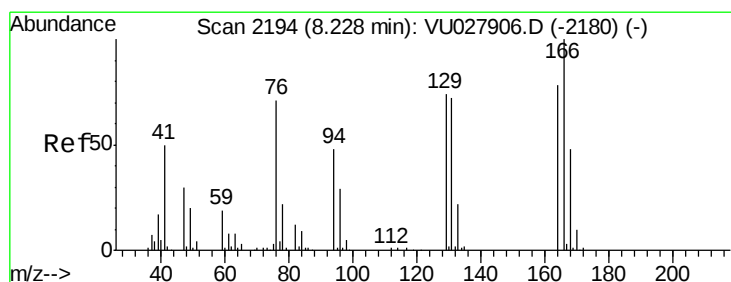
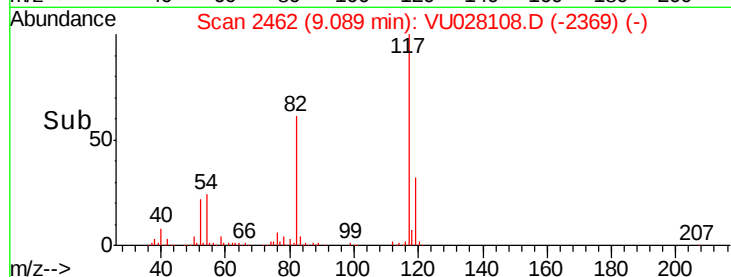
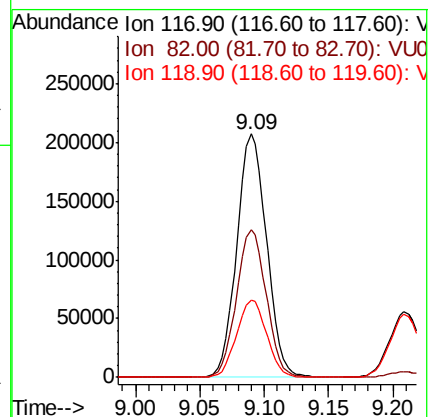
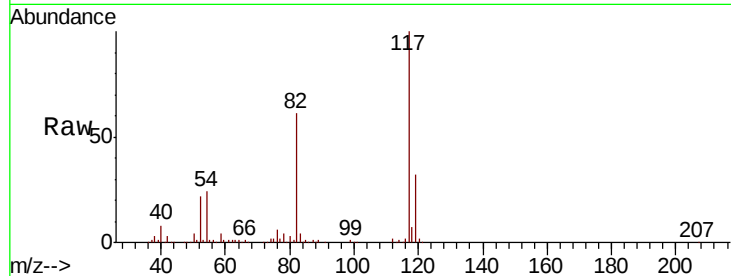
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.8	48.6	73.0
119	31.7	25.8	38.8

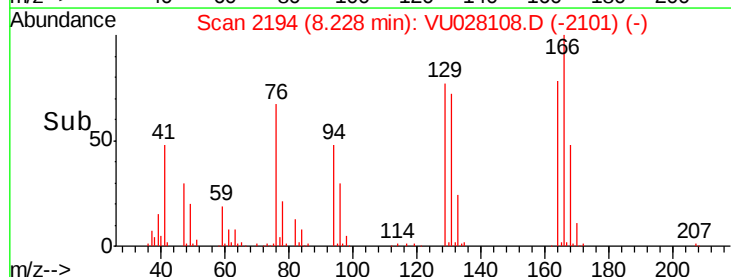
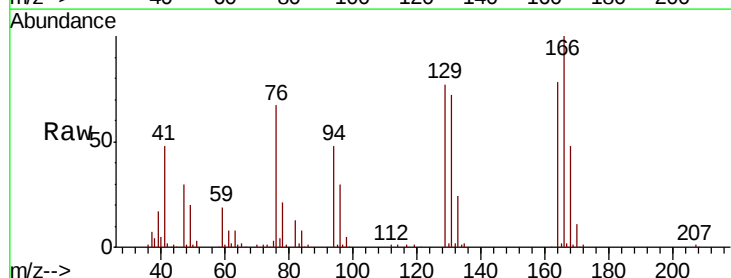
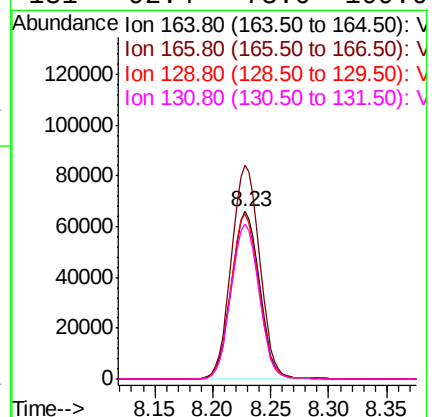
Manual Integrations
APPROVED

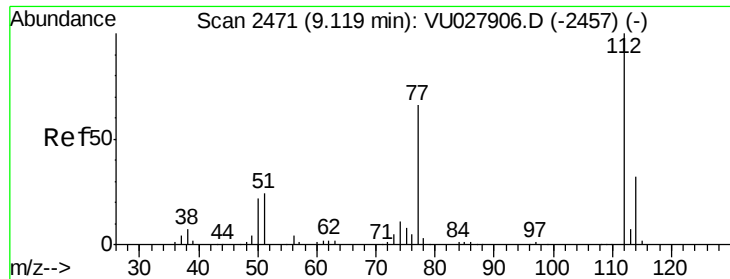
MMDadoda
11/14/2018 9:34:41 AM



#64
Tetrachloroethene
Concen: 51.516 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	102.1	153.1
129	98.4	75.9	113.9
131	92.4	73.0	109.6





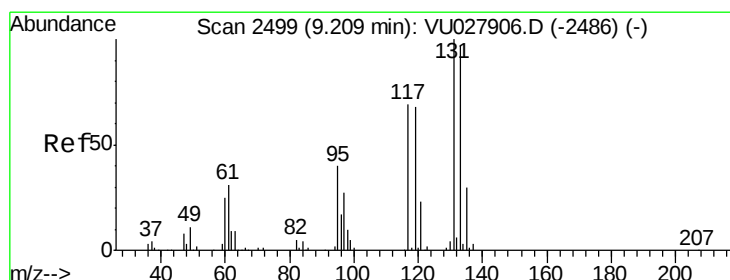
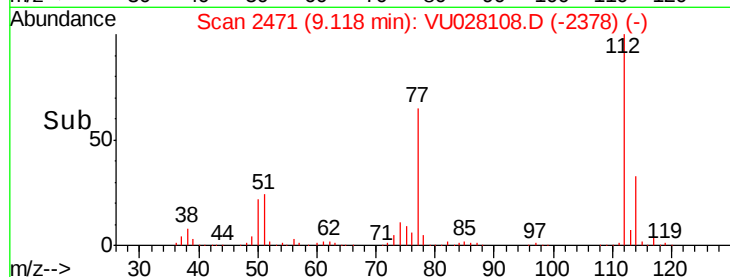
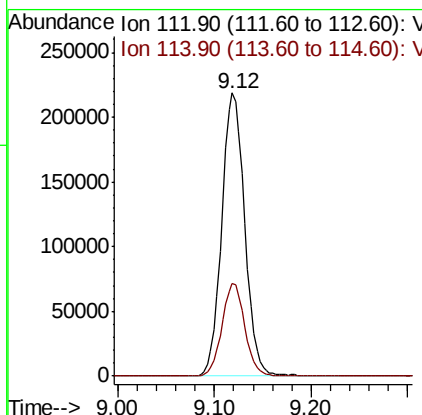
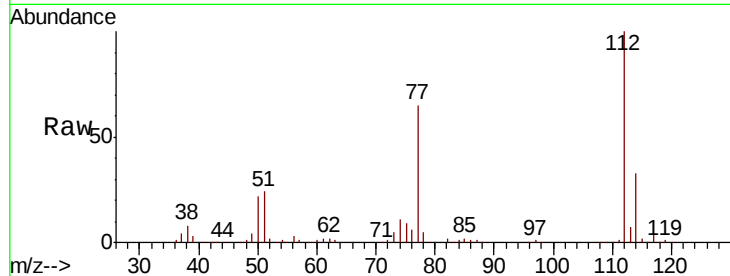
#65
Chlorobenzene
Concen: 51.250 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 360810
Ion Ratio Lower Upper
112 100
114 32.7 25.2 37.8

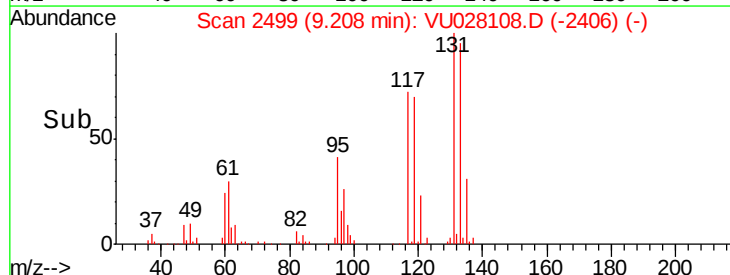
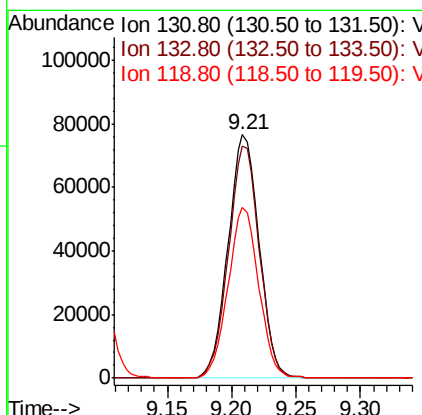
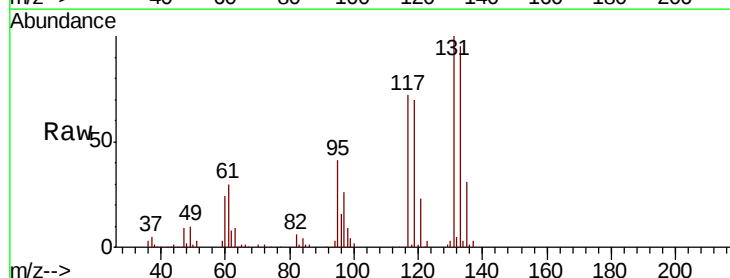
Manual Integrations
APPROVED

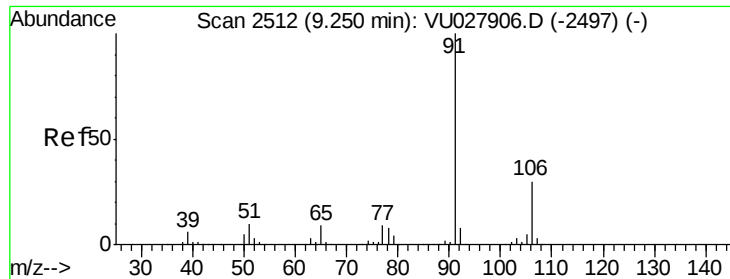
MMDadoda
11/14/2018 9:34:41 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 53.276 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion:131 Resp: 128113
Ion Ratio Lower Upper
131 100
133 94.6 48.1 144.4
119 68.8 34.0 101.8





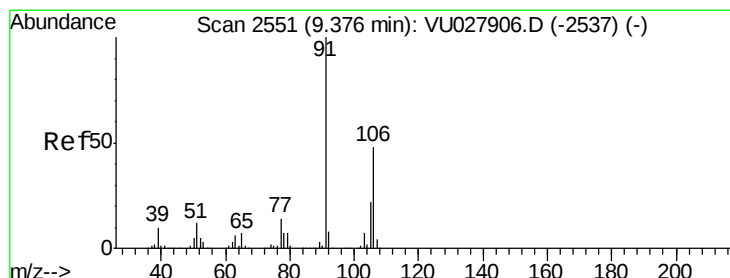
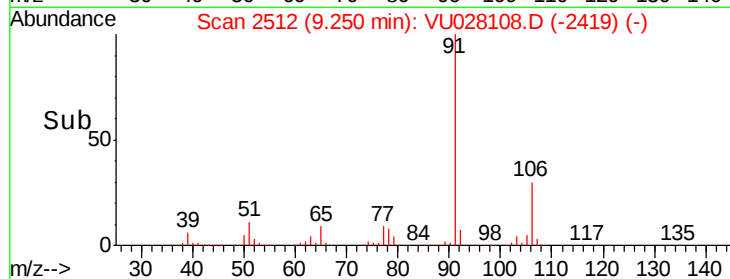
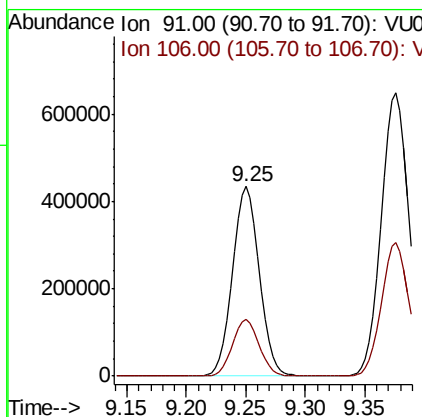
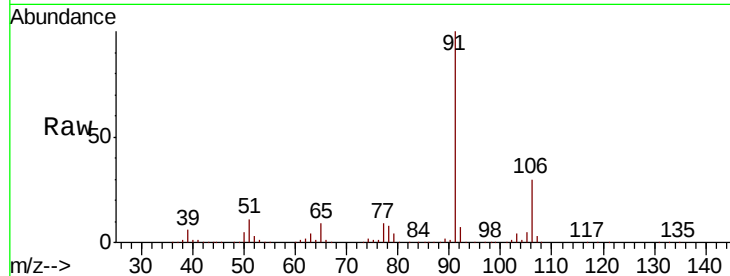
#67
Ethyl Benzene
Concen: 52.366 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 678601
Ion Ratio Lower Upper
91 100
106 29.8 23.6 35.4

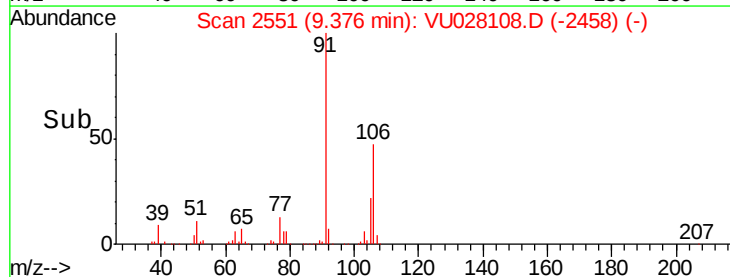
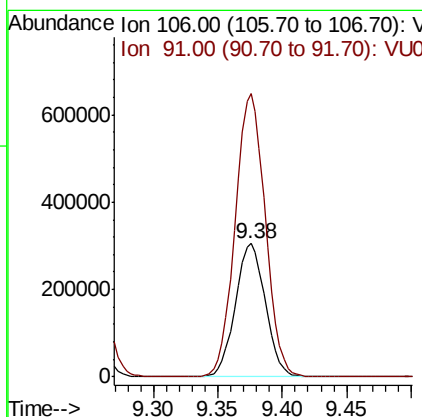
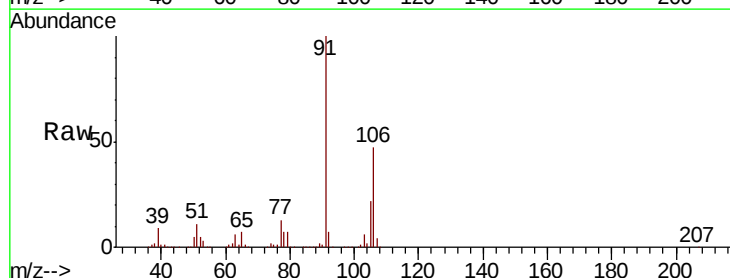
Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#68
m/p-Xylenes
Concen: 104.791 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion: 106 Resp: 492722
Ion Ratio Lower Upper
106 100
91 213.7 168.2 252.4





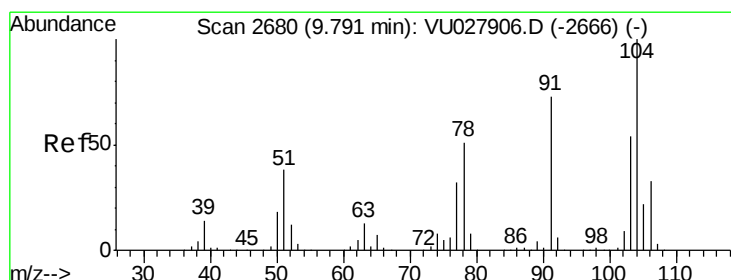
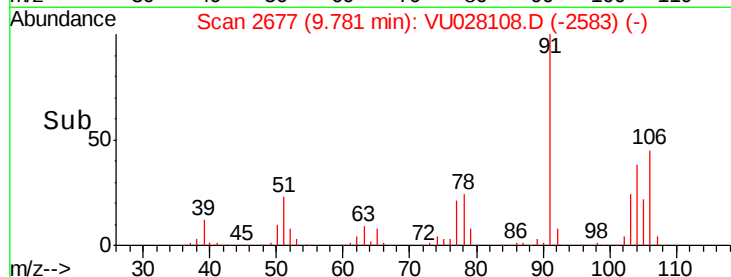
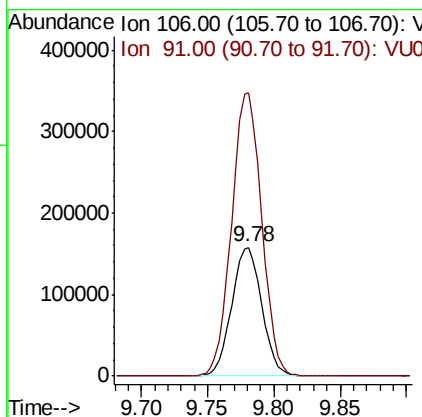
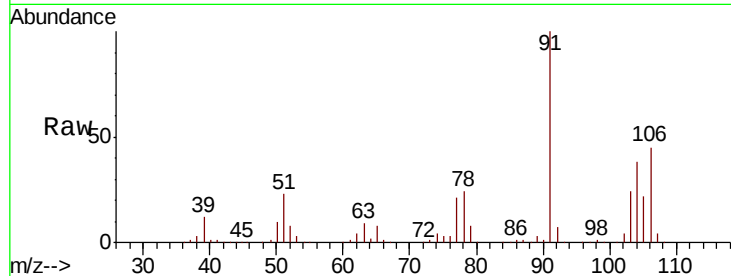
#69
o-Xylene
Concen: 52.391 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 248749
Ion Ratio Lower Upper
106 100
91 220.2 111.1 333.4

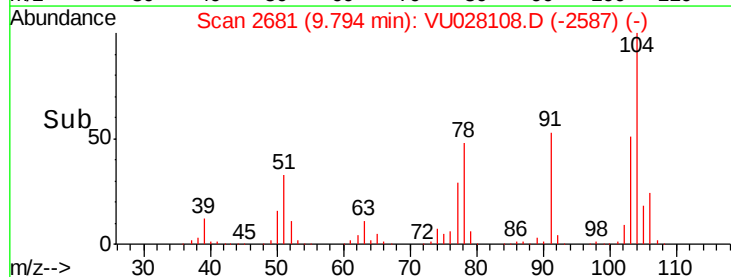
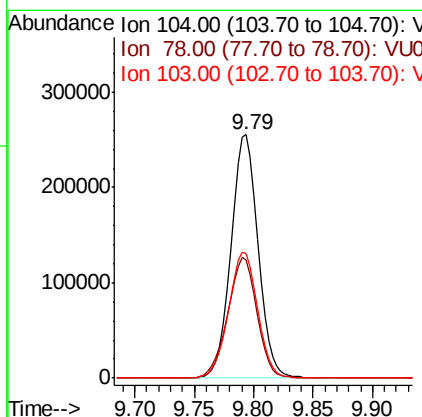
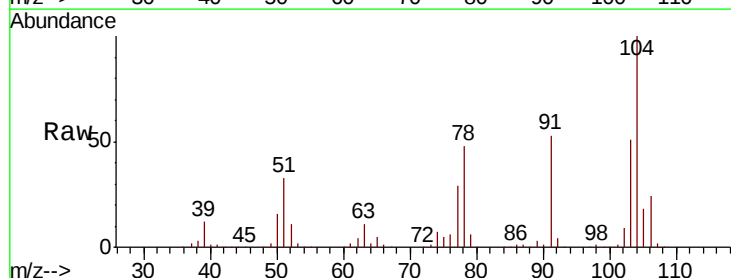
Manual Integrations
APPROVED

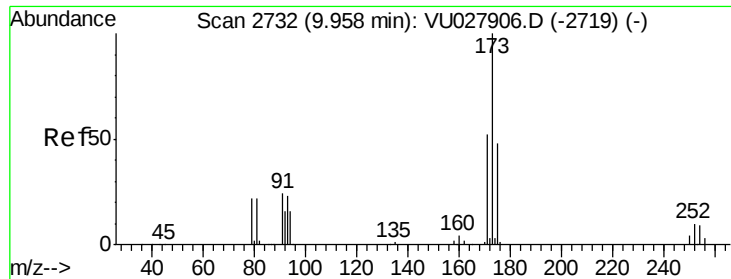
MMDadoda
11/14/2018 9:34:41 AM



#70
Styrene
Concen: 53.199 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion:104 Resp: 403589
Ion Ratio Lower Upper
104 100
78 53.3 43.0 64.4
103 55.6 45.1 67.7





#71

Bromoform

Concen: 53.308 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 107432

Ion Ratio Lower Upper

173 100

175 47.5 24.3 72.8

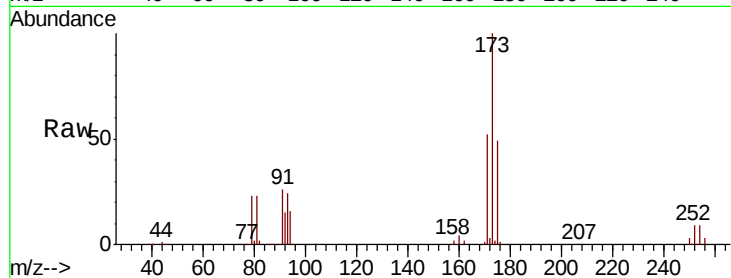
254 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

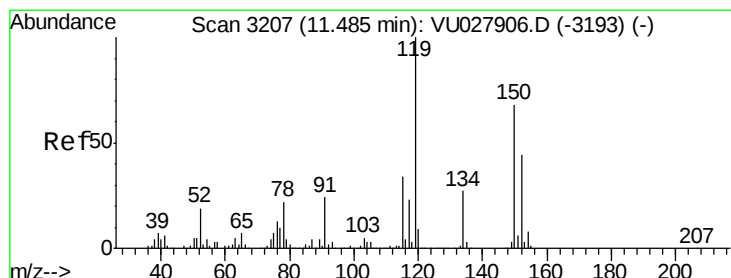
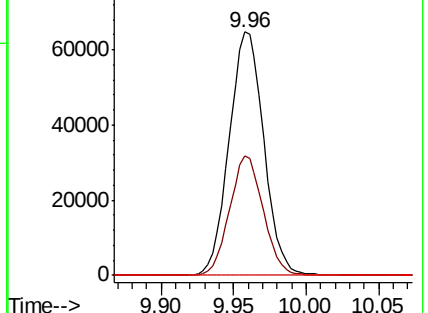
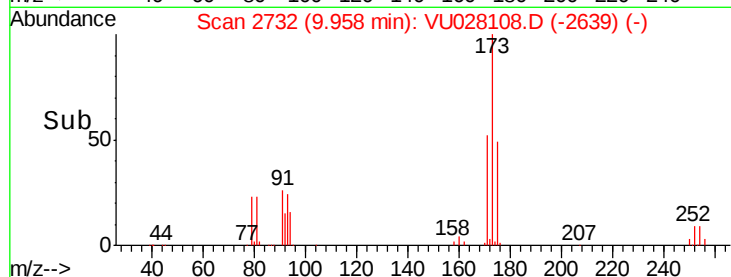
11/14/2018 9:34:41 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

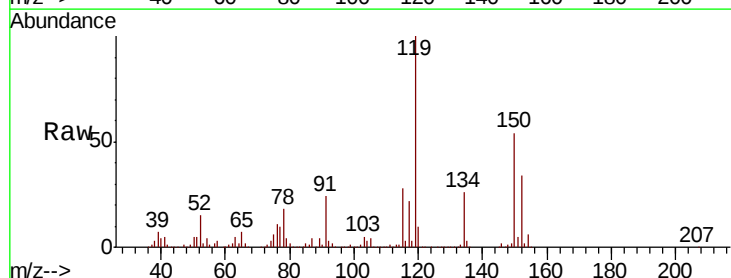
Tgt Ion:152 Resp: 163727

Ion Ratio Lower Upper

152 100

115 85.8 43.0 129.0

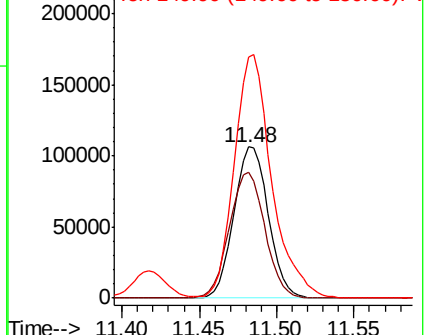
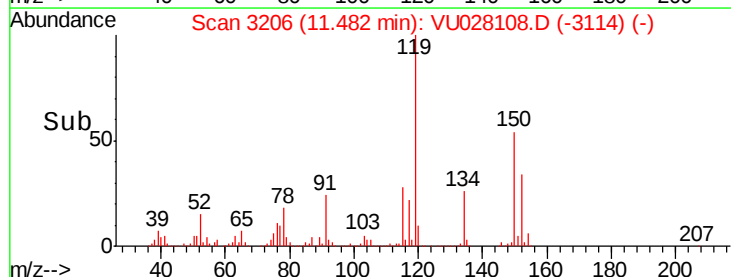
150 175.4 0.0 349.4

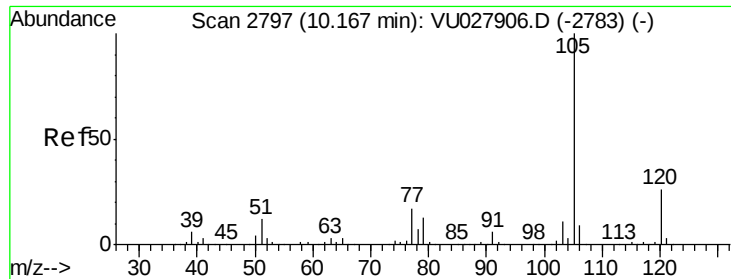


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 52.025 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 659878

Ion Ratio Lower Upper

105 100

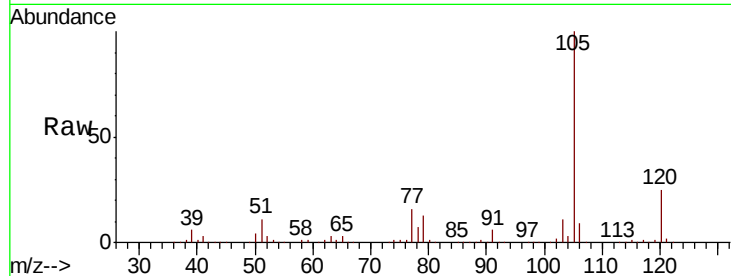
120 25.2 12.7 38.0

Manual Integrations

APPROVED

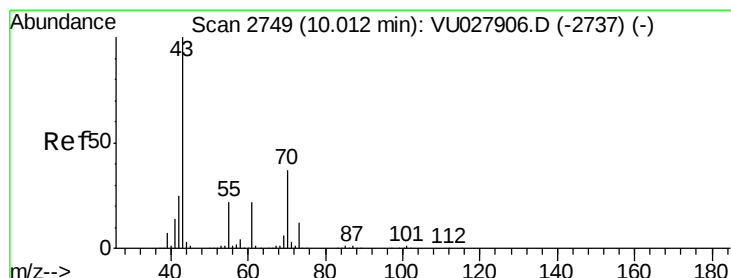
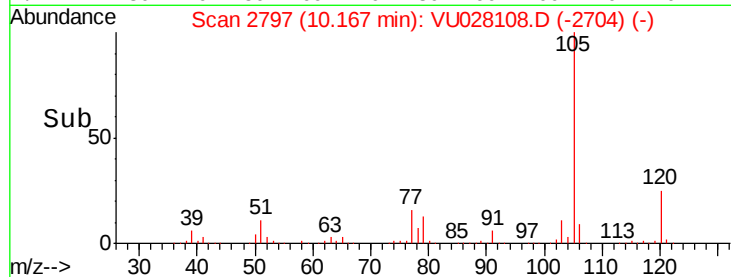
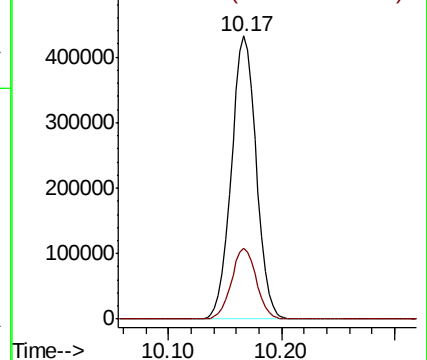
MMDadoda

11/14/2018 9:34:41 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 51.063 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion: 43 Resp: 391636

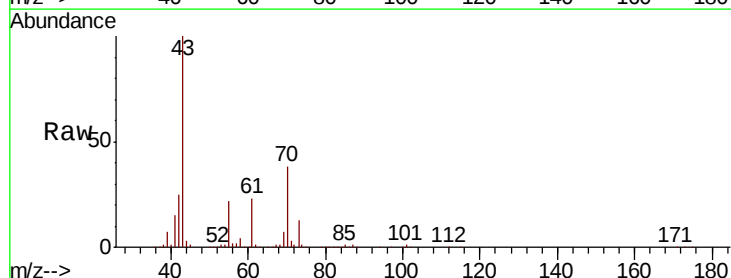
Ion Ratio Lower Upper

43 100

70 38.1 29.2 43.8

55 22.6 17.8 26.6

61 23.4 17.8 26.8

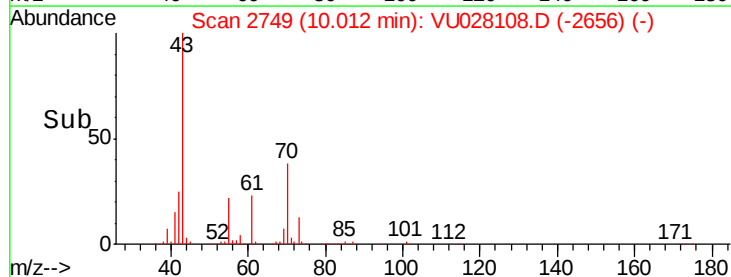
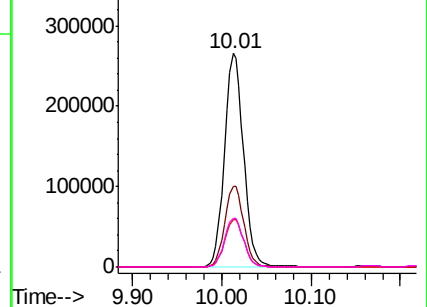


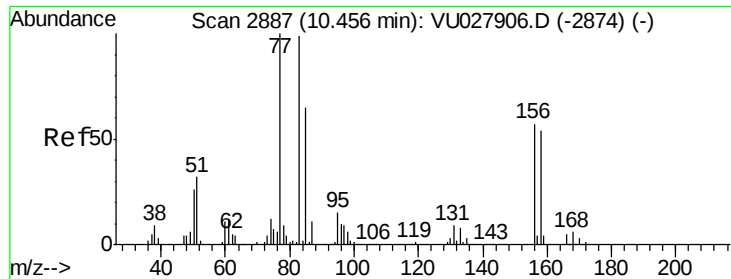
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 51.222 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 262065

Ion Ratio Lower Upper

83 100

131 8.4 4.3 13.1

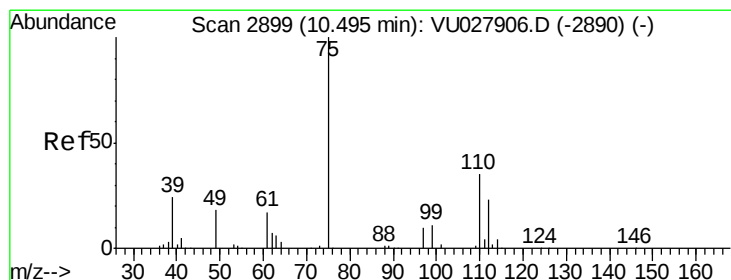
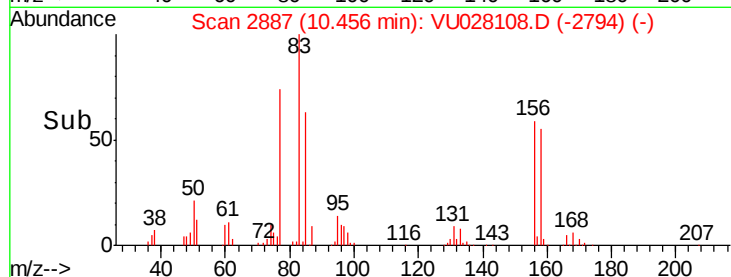
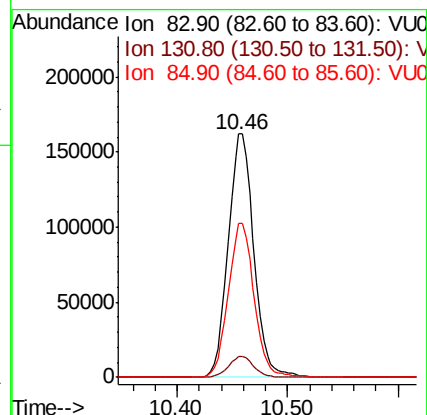
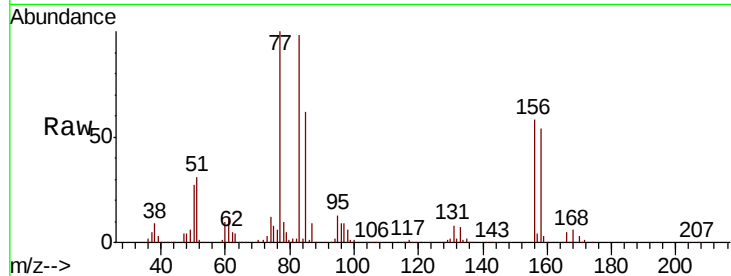
85 63.8 32.4 97.2

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



#76

1,2,3-Trichloropropane

Concen: 52.302 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028108.D

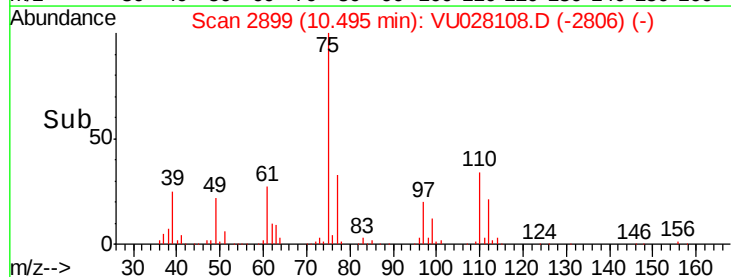
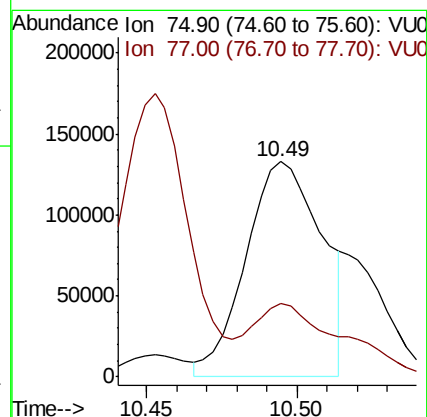
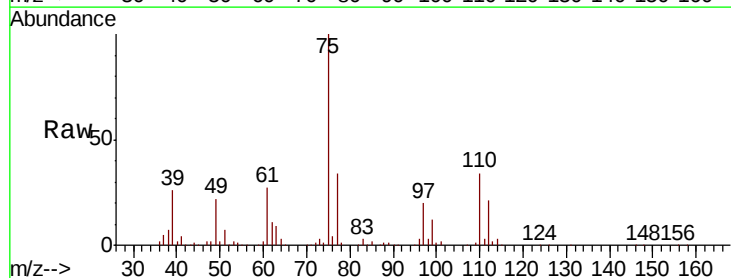
Acq: 13 Nov 2018 21:43

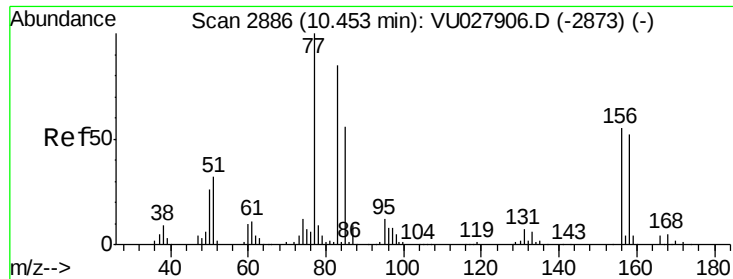
Tgt Ion: 75 Resp: 234231

Ion Ratio Lower Upper

75 100

77 41.1 21.6 64.6





#77

Bromobenzene

Concen: 53.333 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

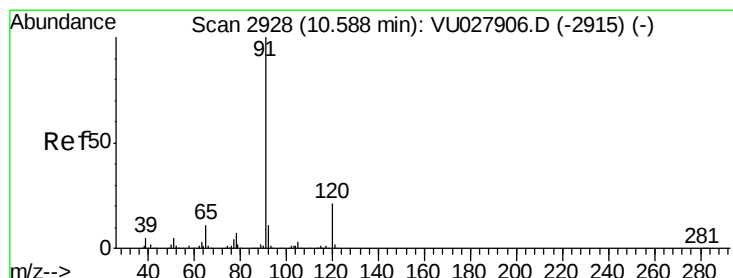
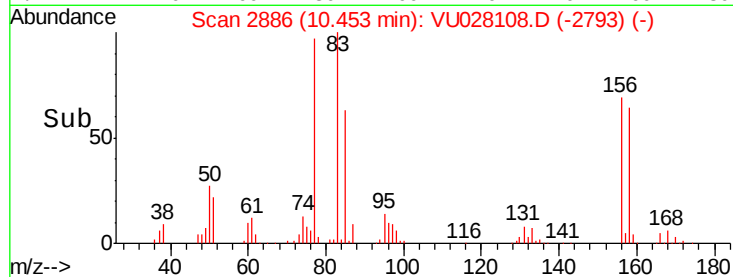
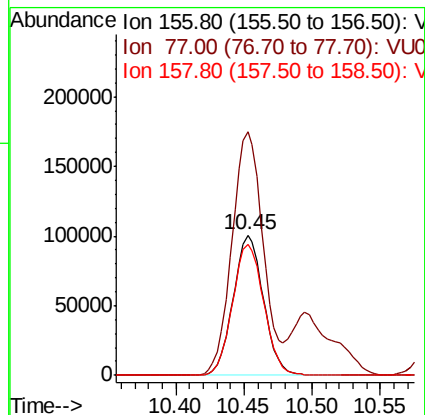
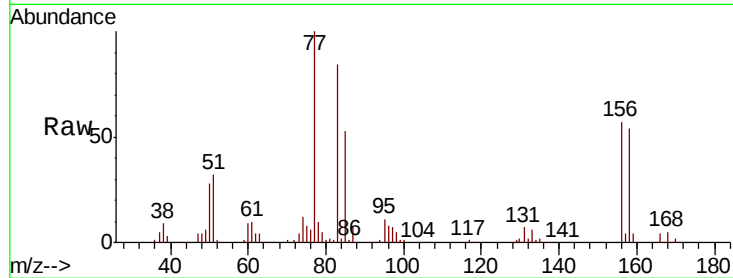
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	155115
Ion Ratio	Lower	Upper	
156	100		
77	179.2	91.8	275.6
158	96.9	48.4	145.2

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#78

n-propylbenzene

Concen: 52.284 ug/l

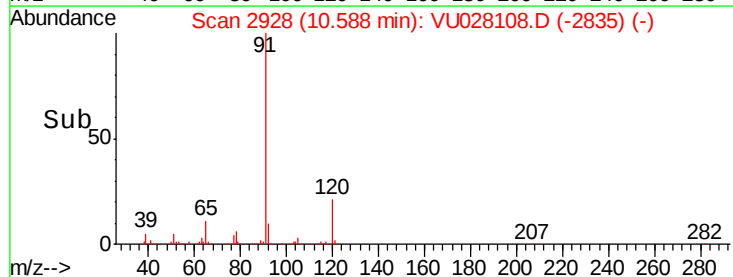
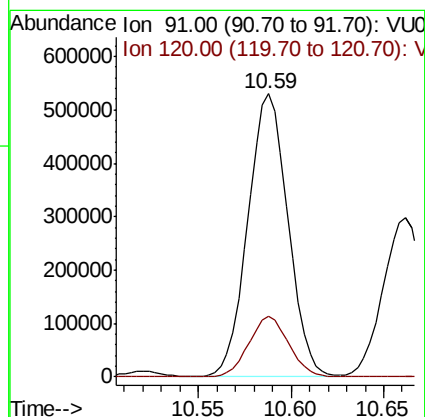
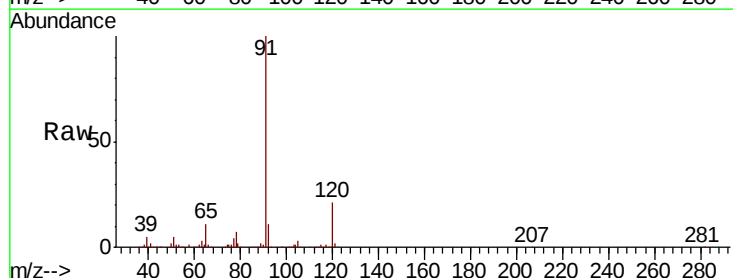
RT: 10.59 min Scan# 2928

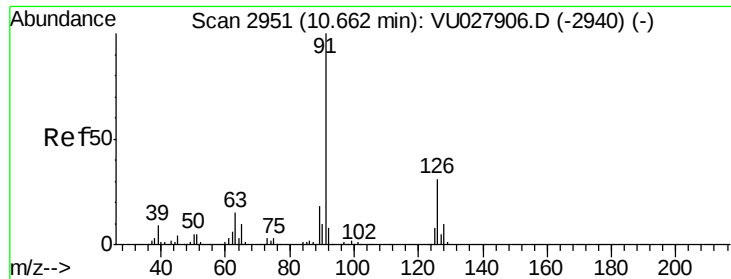
Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion:	91	Resp:	793792
Ion Ratio	Lower	Upper	
91	100		
120	21.2	10.6	31.8





#79

2-Chlorotoluene

Concen: 50.931 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 463491

Ion Ratio Lower Upper

91 100

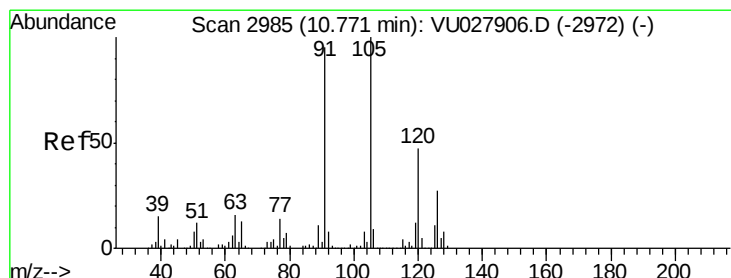
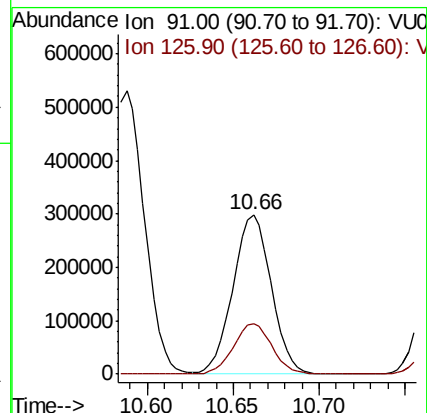
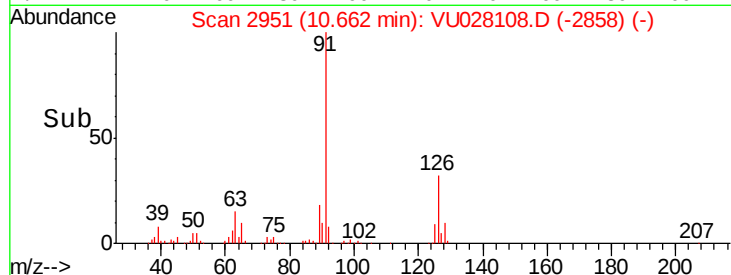
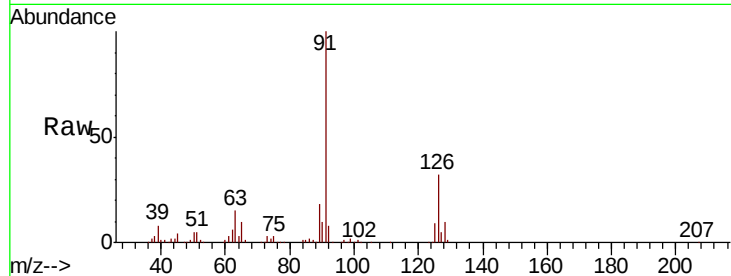
126 31.8 16.0 47.9

Manual Integrations

APPROVED

MMDadoda

11/14/2018 9:34:41 AM



#80

1,3,5-Trimethylbenzene

Concen: 52.238 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028108.D

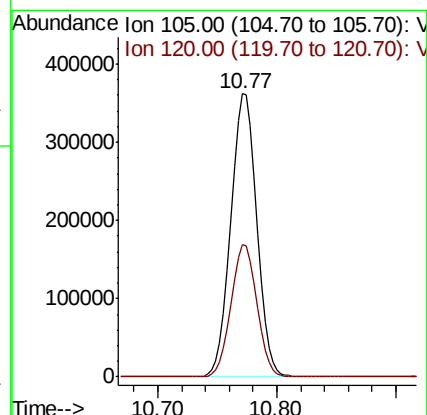
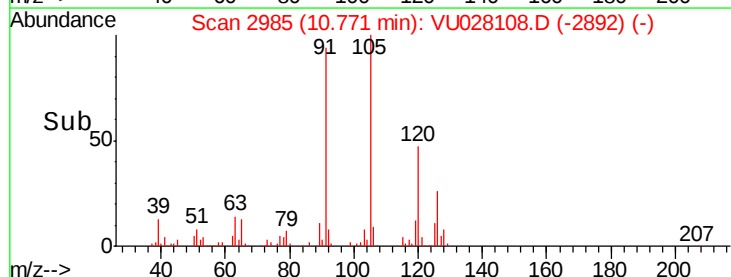
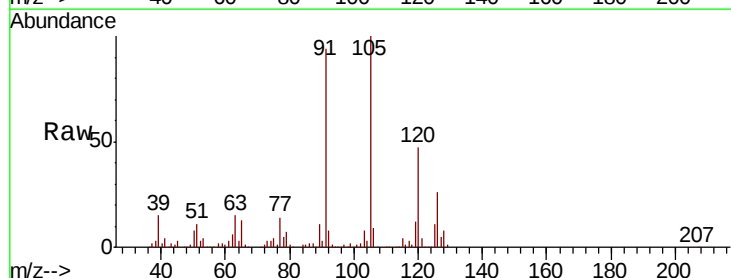
Acq: 13 Nov 2018 21:43

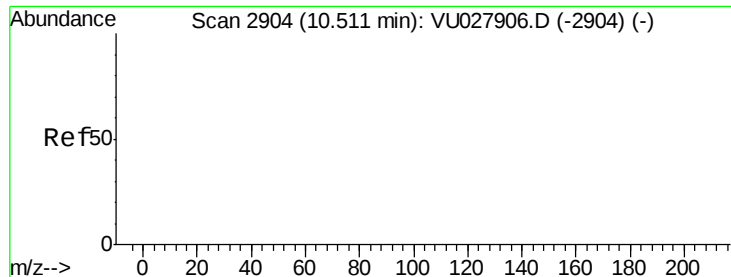
Tgt Ion: 105 Resp: 548873

Ion Ratio Lower Upper

105 100

120 46.5 23.3 69.9





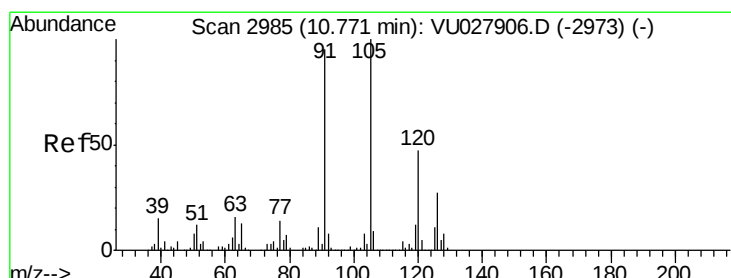
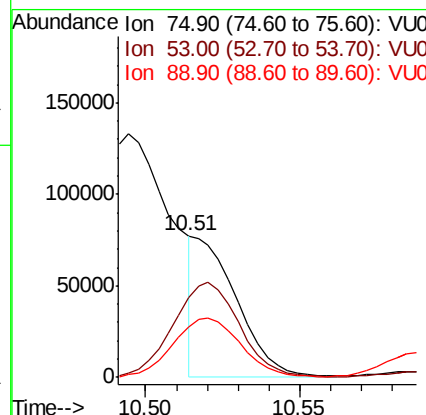
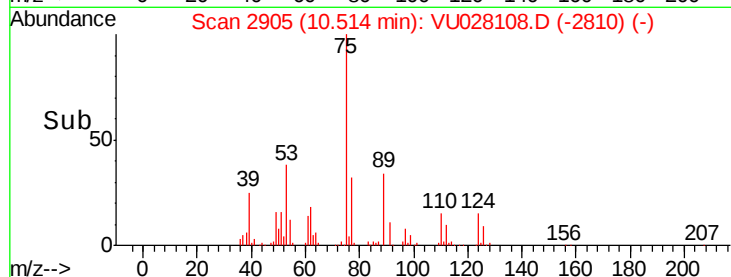
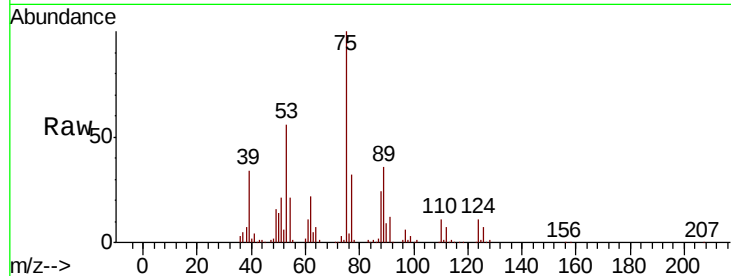
#81
trans-1,4-Dichloro-2-butene
Concen: 41.019 ug/l m
RT: 10.51 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

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

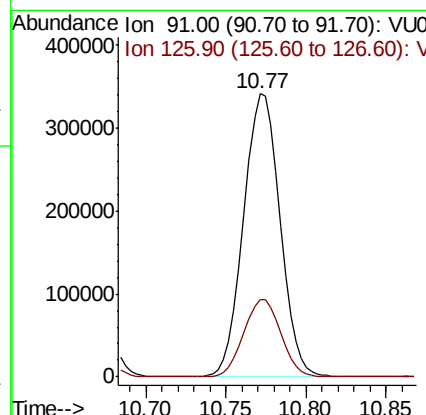
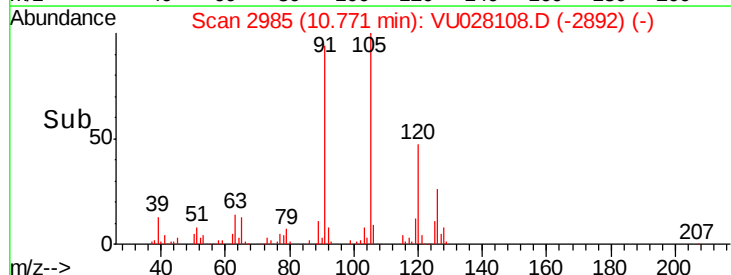
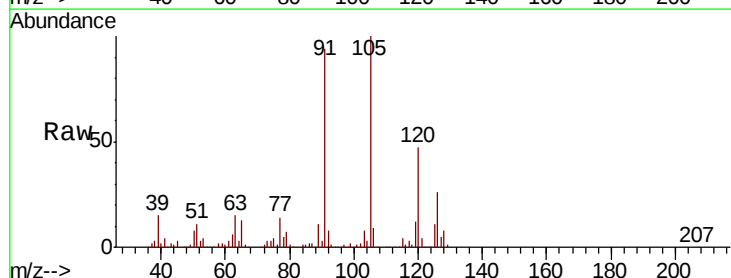
Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#82
4-Chlorotoluene
Concen: 51.080 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.2	42.6





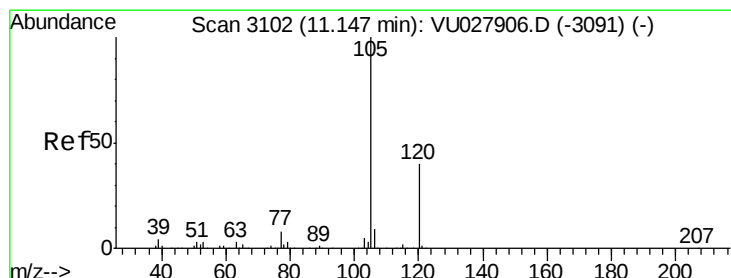
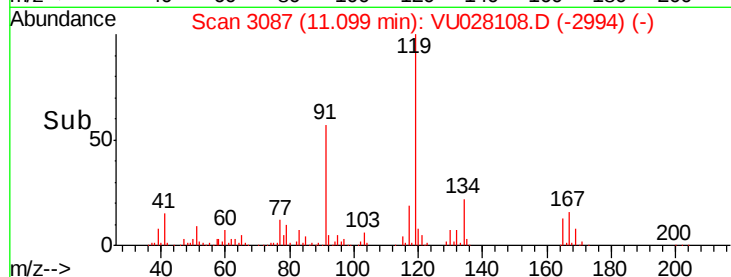
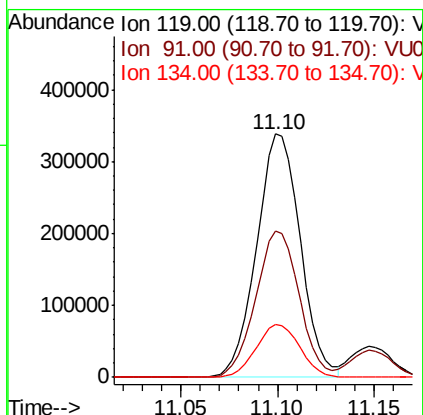
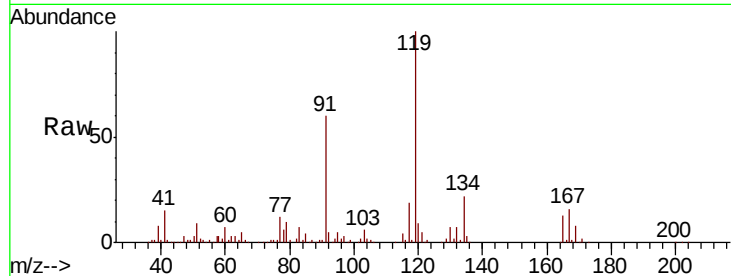
#83
tert-Butylbenzene
Concen: 50.850 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	59.7	29.8	89.3
134	21.8	11.1	33.1

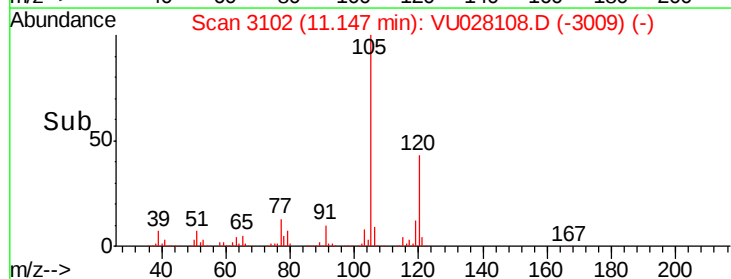
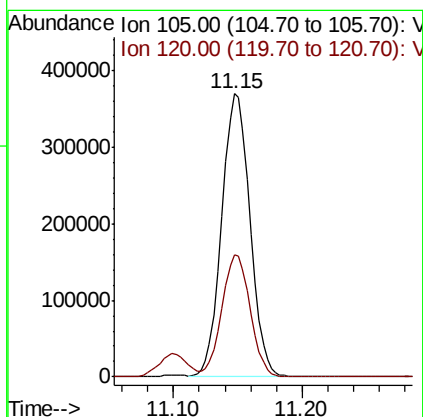
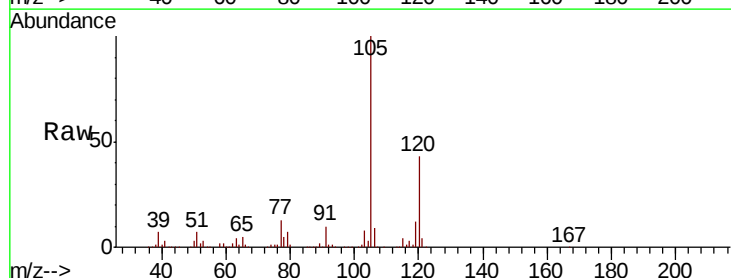
Manual Integrations
APPROVED

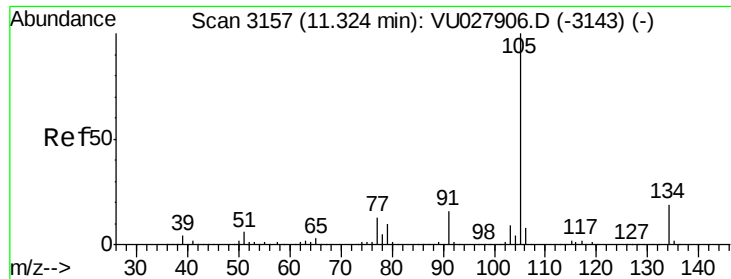
MMDadoda
11/14/2018 9:34:41 AM



#84
1,2,4-Trimethylbenzene
Concen: 53.102 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.1	66.1





#85

sec-Butylbenzene

Concen: 52.471 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 670301

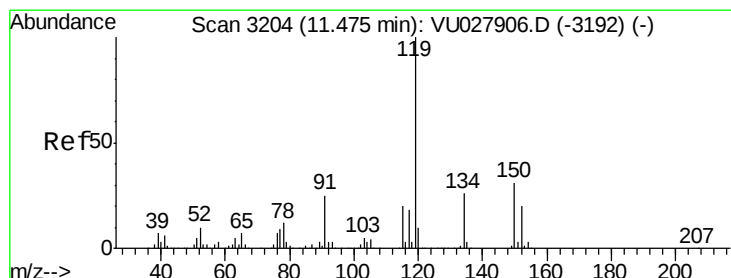
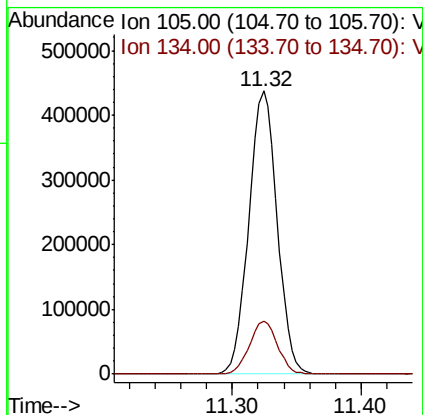
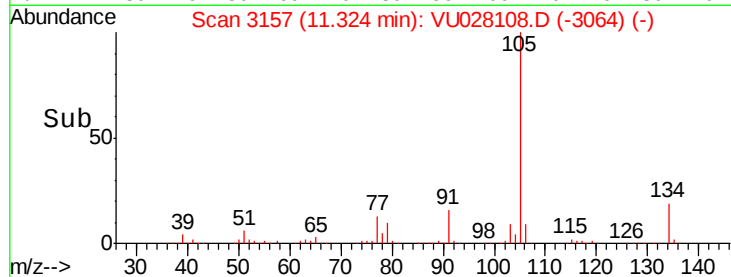
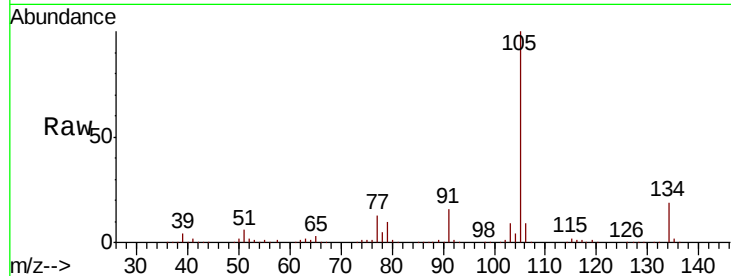
Ion Ratio Lower Upper

105 100

134 18.6 9.2 27.6

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#86

p-Isopropyltoluene

Concen: 52.636 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

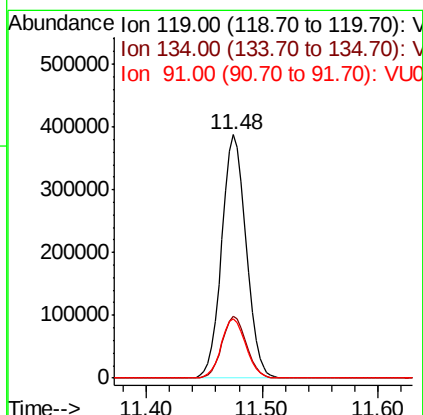
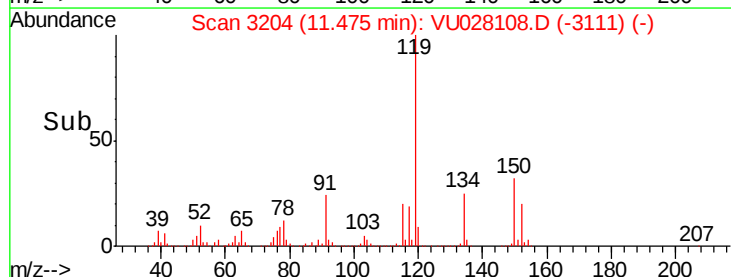
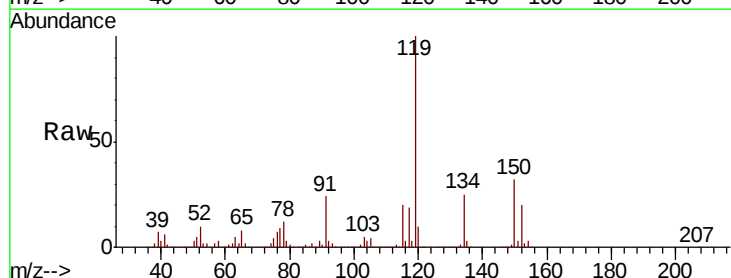
Tgt Ion:119 Resp: 562111

Ion Ratio Lower Upper

119 100

134 25.5 12.9 38.7

91 24.6 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 52.115 ug/l

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Instrument :

MSVOA_U

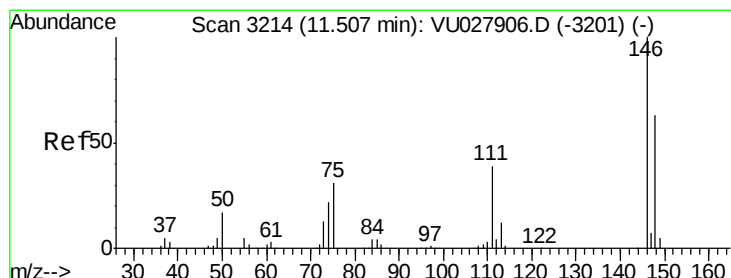
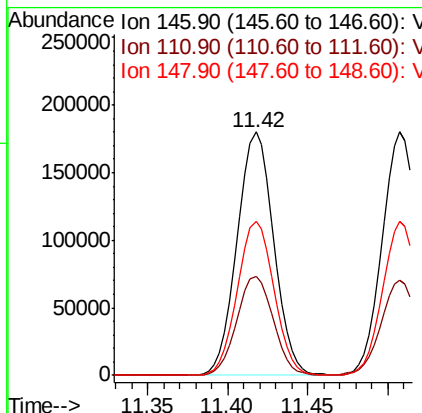
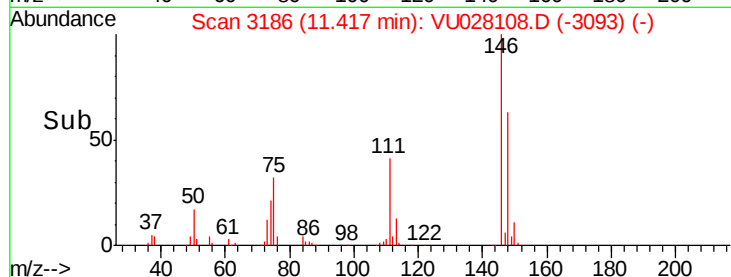
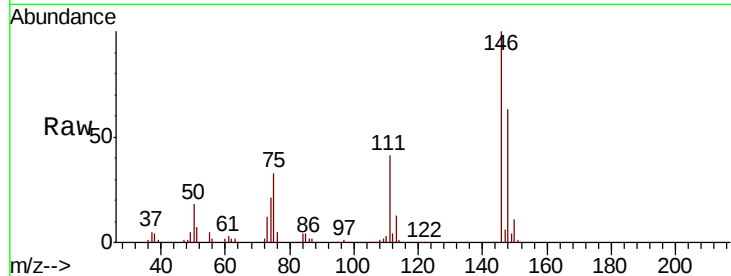
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	279993
Ion Ratio	Lower	Upper	
146	100		
111	40.5	20.3	61.0
148	63.3	31.8	95.4

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#88

1,4-Dichlorobenzene

Concen: 50.915 ug/l

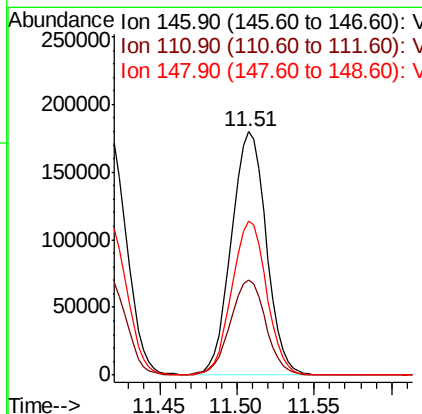
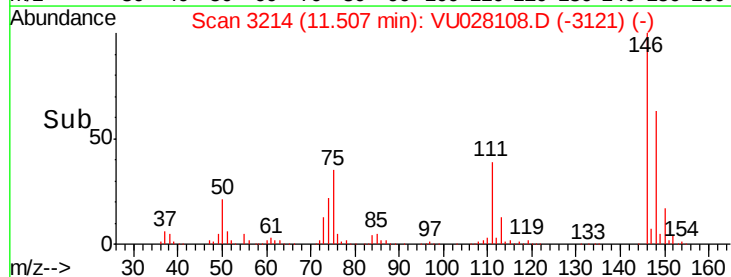
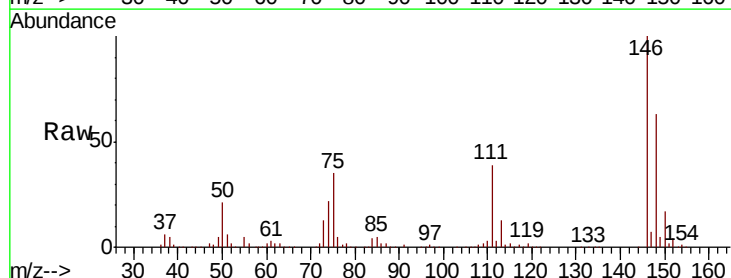
RT: 11.51 min Scan# 3214

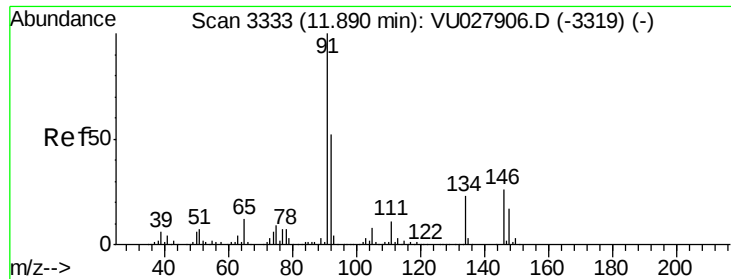
Delta R.T. -0.00 min

Lab File: VU028108.D

Acq: 13 Nov 2018 21:43

Tgt Ion:	146	Resp:	280375
Ion Ratio	Lower	Upper	
146	100		
111	40.1	20.3	60.9
148	63.2	32.0	96.2





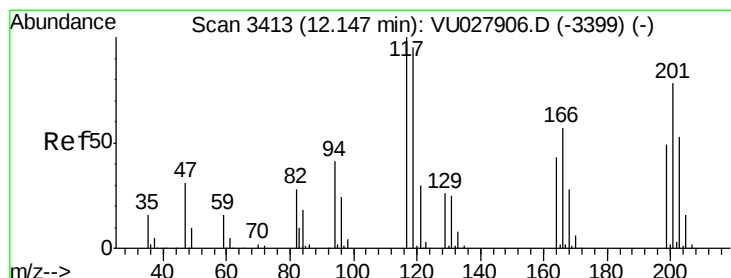
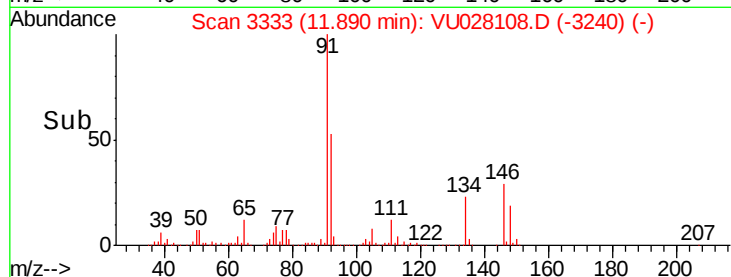
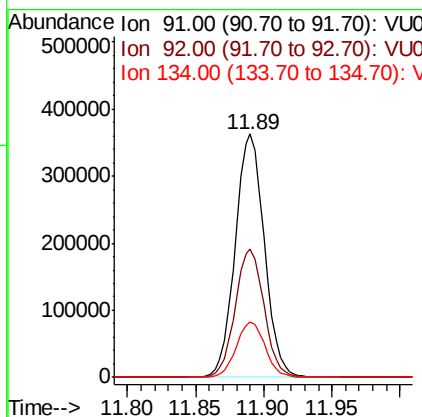
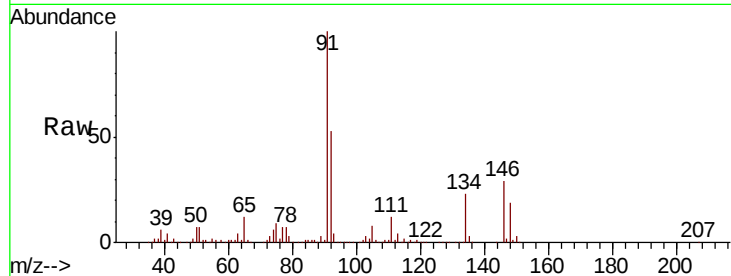
#89
n-Butylbenzene
Concen: 52.871 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.2	78.5
134	22.7	11.5	34.5

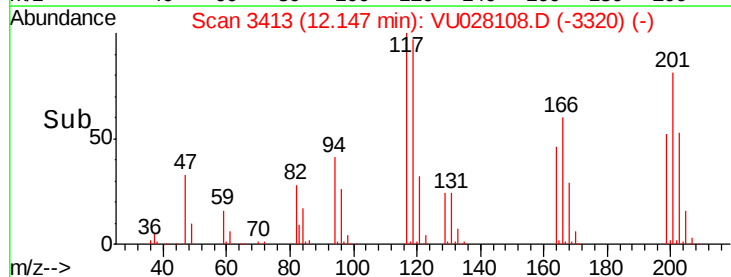
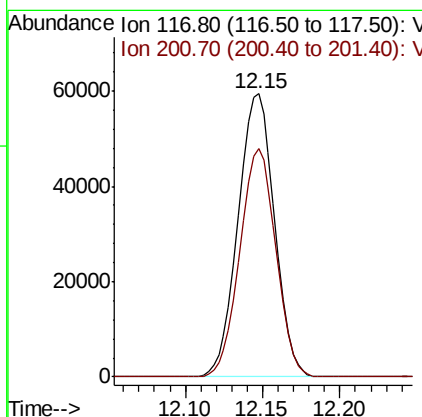
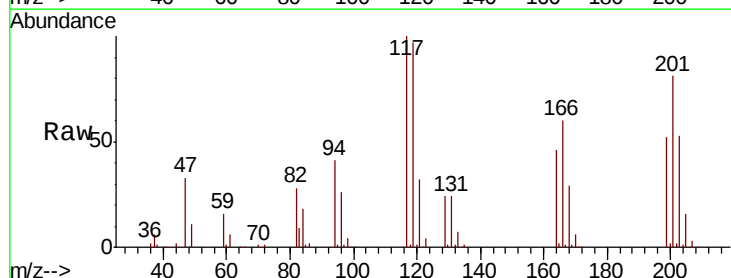
Manual Integrations
APPROVED

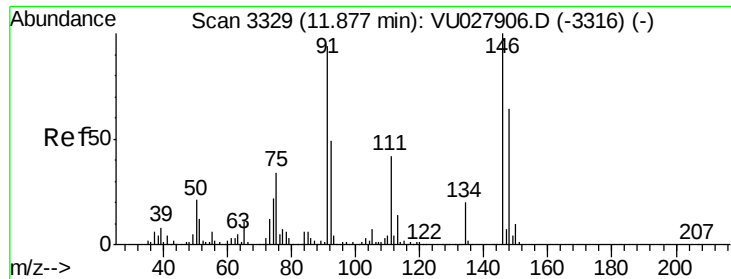
MMDadoda
11/14/2018 9:34:41 AM



#90
Hexachloroethane
Concen: 51.235 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. -0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.8	38.5	115.5





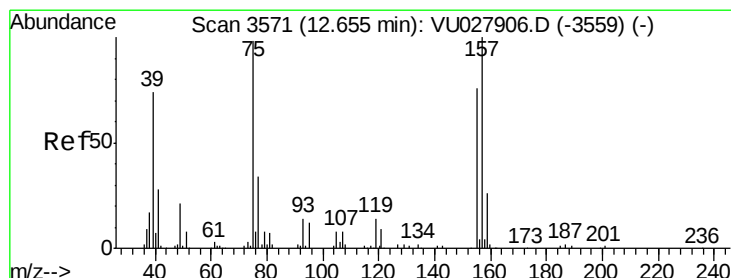
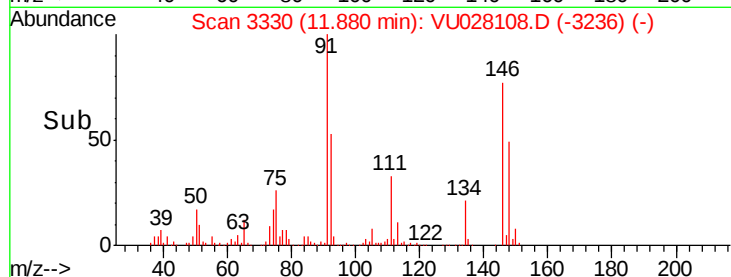
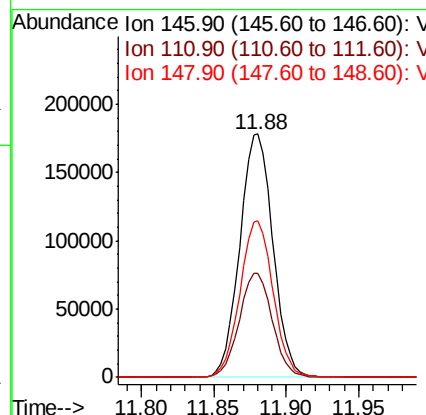
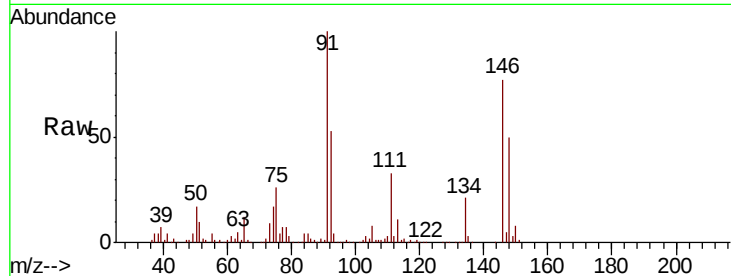
#91
 1,2-Dichlorobenzene
 Concen: 52.475 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.3	64.0
148	64.2	31.8	95.3

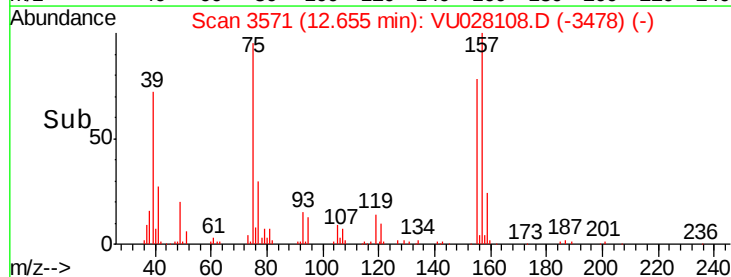
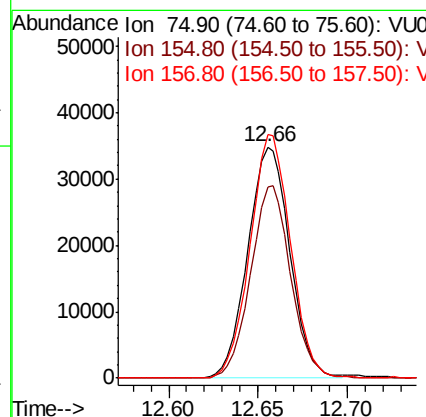
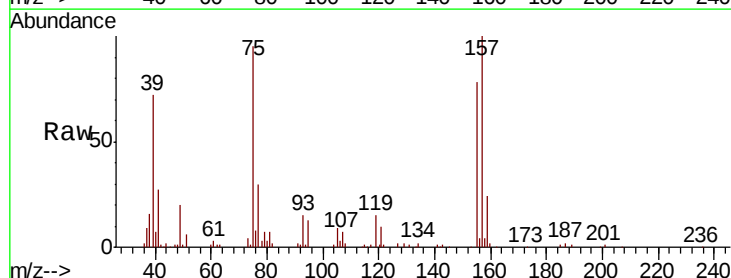
Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:41 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.358 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.6	39.8	119.3
157	101.6	50.6	151.9





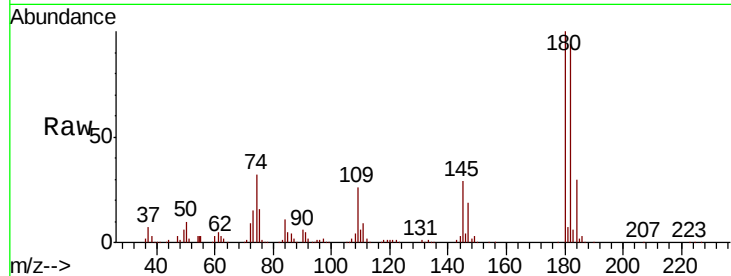
#93
 1,2,4-Trichlorobenzene
 Concen: 49.032 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	48.4	145.2
145	29.1	14.9	44.5

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 9:34:41 AM

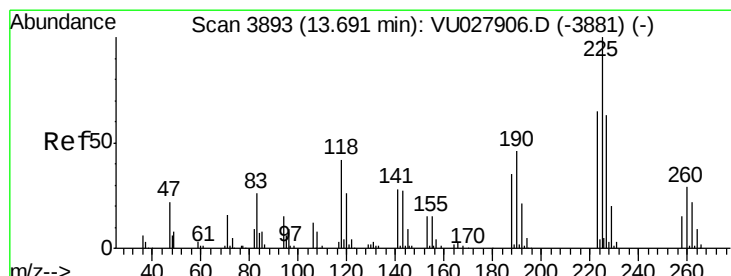
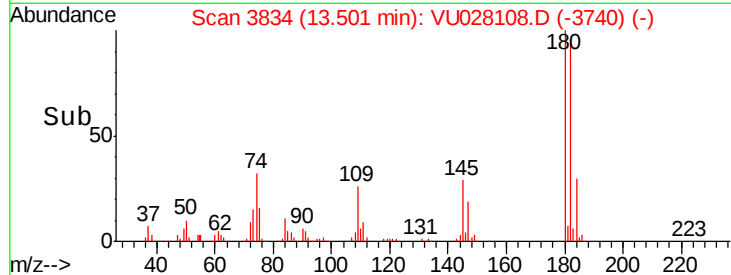
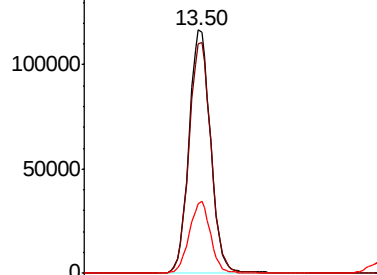


Abundance

Ion 179.80 (179.50 to 180.50): V

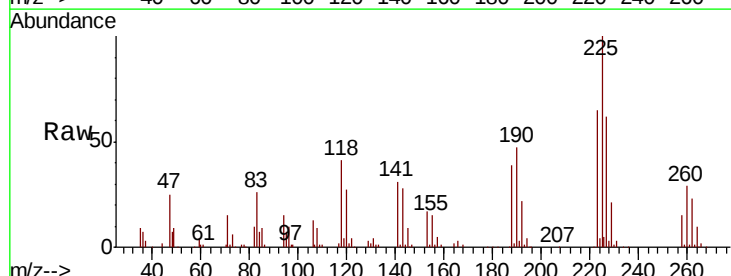
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 50.420 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028108.D
 Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.7	32.2	96.6
227	62.7	32.5	97.4

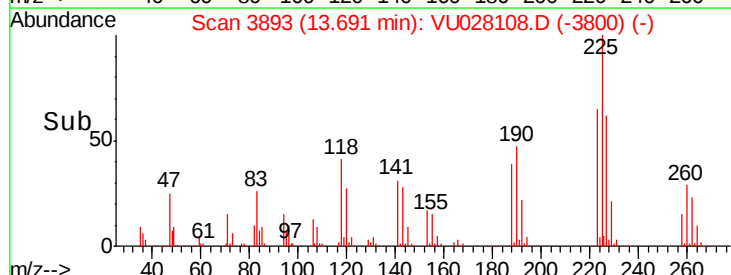
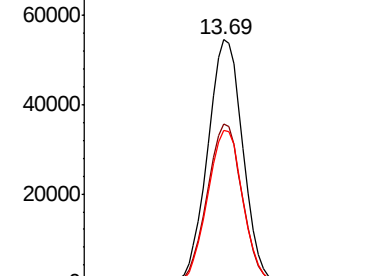


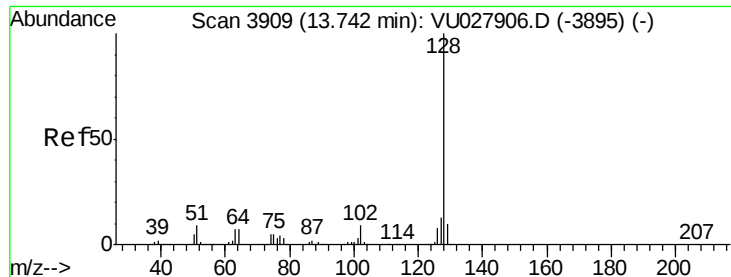
Abundance

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





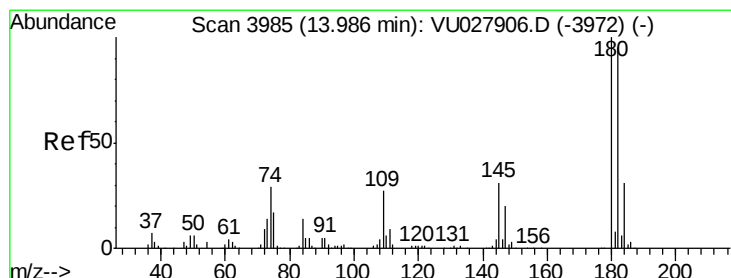
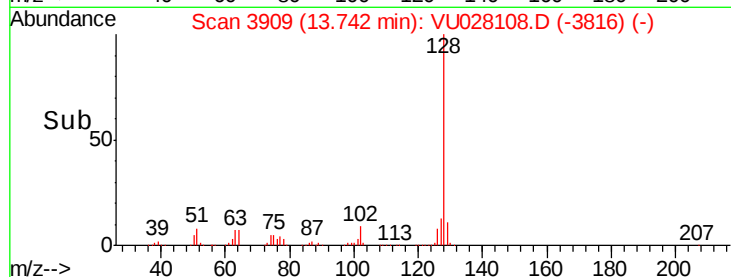
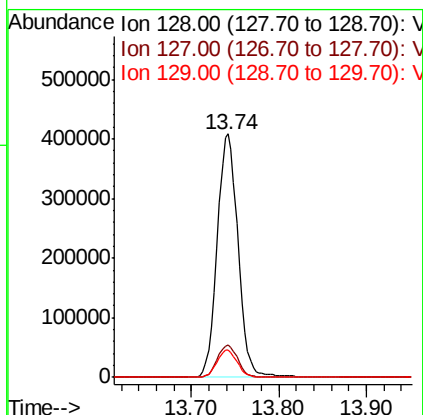
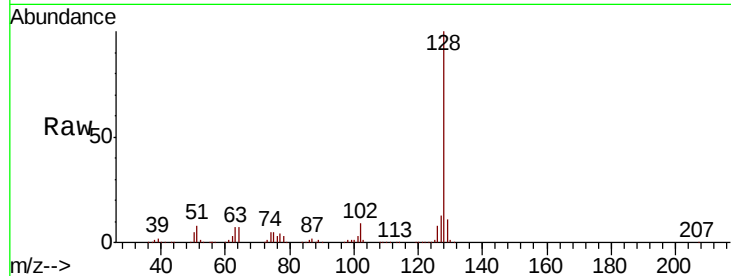
#95
Naphthalene
Concen: 50.363 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.9	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
11/14/2018 9:34:41 AM



#96
1,2,3-Trichlorobenzene
Concen: 52.477 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028108.D
Acq: 13 Nov 2018 21:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.4	142.3
145	31.7	16.0	47.9

