

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027308.D
 Acq On : 29 Sep 2018 06:11
 Operator : MD/SY
 Sample : J5135-03MSD
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Manual Integrations
 APPROVED

MMDadoda
 10/2/2018 1:08:36 PM

Quant Time: Oct 01 04:06:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	80145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	140844	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	136189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73244	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	76520	47.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.88%	
35) Dibromofluoromethane	4.88	113	55973	45.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.70%	
50) Toluene-d8	7.57	98	202020	43.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.84%	
62) 4-Bromofluorobenzene	10.31	95	76588	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	51999	49.693	ug/l	99
3) Chloromethane	1.33	50	83742	46.418	ug/l	100
4) Vinyl Chloride	1.40	62	81333	48.296	ug/l	100
5) Bromomethane	1.62	94	61002	63.610	ug/l	97
6) Chloroethane	1.69	64	49967	46.438	ug/l	99
7) Trichlorofluoromethane	1.88	101	89045	46.555	ug/l	99
8) Diethyl Ether	2.10	74	45000	48.879	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.29	101	50788	43.185	ug/l	100
10) Methyl Iodide	2.41	142	46252	31.710	ug/l	99
11) Tert butyl alcohol	2.83	59	91779	248.237	ug/l	99
12) 1,1-Dichloroethene	2.28	96	52319	47.265	ug/l	99
13) Acrolein	2.20	56	25345	127.167	ug/l	99
14) Allyl chloride	2.59	41	120264	53.567	ug/l	98
15) Acrylonitrile	2.94	53	244855	262.764	ug/l	99
16) Acetone	2.32	43	210260	245.063	ug/l	99
17) Carbon Disulfide	2.48	76	170454	47.270	ug/l	100
18) Methyl Acetate	2.62	43	121516	52.927	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	221661	54.493	ug/l	100
20) Methylene Chloride	2.70	84	69389	48.033	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	59342	50.212	ug/l	99
22) Diisopropyl ether	3.57	45	267392	55.683	ug/l	98
23) Vinyl Acetate	3.53	43	1023376	250.007	ug/l	99
24) 1,1-Dichloroethane	3.45	63	137150	51.857	ug/l	99
25) 2-Butanone	4.26	43	343831	253.640	ug/l	98
26) 2,2-Dichloropropane	4.23	77	82546	40.020	ug/l	98
27) cis-1,2-Dichloroethene	4.23	96	69462	52.045	ug/l	99
28) Bromochloromethane	4.55	49	68816	53.977	ug/l	96
29) Tetrahydrofuran	4.64	42	224988	274.362	ug/l	97
30) Chloroform	4.67	83	122254	49.798	ug/l	98
31) Cyclohexane	5.00	56	121419	50.510	ug/l	97
32) 1,1,1-Trichloroethane	4.92	97	100077	51.056	ug/l	99
36) 1,1-Dichloropropene	5.14	75	90287	48.032	ug/l	98
37) Ethyl Acetate	4.38	43	115203	45.272	ug/l	98
38) Carbon Tetrachloride	5.14	117	84550	47.266	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027308.D
 Acq On : 29 Sep 2018 06:11
 Operator : MD/SY
 Sample : J5135-03MSD
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Manual Integrations
 APPROVED

MMDadoda
 10/2/2018 1:08:36 PM

Quant Time: Oct 01 04:06:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	98554	48.246	ug/l	98
40) Benzene	5.39	78	277997	48.649	ug/l	100
41) Methacrylonitrile	4.54	41	72843	55.119	ug/l	97
42) 1,2-Dichloroethane	5.40	62	105796	49.003	ug/l	100
43) Isopropyl Acetate	5.55	43	185533	49.995	ug/l	99
44) Trichloroethene	6.19	130	58873	48.394	ug/l	99
45) 1,2-Dichloropropane	6.43	63	81441	50.019	ug/l	97
46) Dibromomethane	6.56	93	47842	48.652	ug/l	99
47) Bromodichloromethane	6.76	83	95534	48.046	ug/l	97
48) Methyl methacrylate	6.62	41	101290	50.144	ug/l	97
49) 1,4-Dioxane	6.61	88	35376	881.692	ug/l	99
51) 4-Methyl-2-Pentanone	7.46	43	655004	262.431	ug/l	100
52) Toluene	7.64	92	165204	50.437	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	108736	50.898	ug/l	98
54) cis-1,3-Dichloropropene	7.27	75	114123	48.584	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	67767	48.827	ug/l	98
56) Ethyl methacrylate	8.02	69	115193	47.930	ug/l	97
57) 1,3-Dichloropropane	8.24	76	129667	50.232	ug/l	100
59) 2-Hexanone	8.36	43	501620	256.748	ug/l	100
60) Dibromochloromethane	8.48	129	67828	49.823	ug/l	99
61) 1,2-Dibromoethane	8.59	107	69671	48.247	ug/l	99
64) Tetrachloroethene	8.23	164	46846	44.639	ug/l	98
65) Chlorobenzene	9.12	112	168709	46.720	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.21	131	61460	49.414	ug/l	99
67) Ethyl Benzene	9.25	91	308409	51.938	ug/l	100
68) m/p-Xylenes	9.38	106	226700	94.356	ug/l	99
69) o-Xylene	9.78	106	111295	52.899	ug/l	100
70) Stvrene	9.79	104	184291	47.025	ug/l	99
71) Bromoform	9.96	173	48998	50.943	ug/l #	99
73) Isopropylbenzene	10.17	105	293362	52.653	ug/l	100
74) N-amyl acetate	10.01	43	159215	49.368	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	117100	45.712	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	107823m	48.457	ug/l	
77) Bromobenzene	10.45	156	68670	50.436	ug/l	98
78) n-propylbenzene	10.59	91	350257	53.130	ug/l	99
79) 2-Chlorotoluene	10.66	91	209343	50.555	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	241794	52.573	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	28079m	40.383	ug/l	
82) 4-Chlorotoluene	10.77	91	239884	51.664	ug/l	99
83) tert-Butylbenzene	11.10	119	237303	52.188	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	249044	53.208	ug/l	99
85) sec-Butylbenzene	11.32	105	291329	52.486	ug/l	100
86) p-Isopropyltoluene	11.48	119	244328	46.969	ug/l	100
87) 1,3-Dichlorobenzene	11.42	146	123180	48.618	ug/l	100
88) 1,4-Dichlorobenzene	11.51	146	124971	45.257	ug/l	100
89) n-Butylbenzene	11.89	91	217785	43.464	ug/l	99
90) Hexachloroethane	12.14	117	46785	46.351	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	126345	46.945	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	26197	50.129	ug/l	99
93) 1,2,4-Trichlorobenzene	13.50	180	78547	50.645	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
Data File : VU027308.D
Acq On : 29 Sep 2018 06:11
Operator : MD/SY
Sample : J5135-03MSD
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 57 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM

Quant Time: Oct 01 04:06:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.69	225	36646	44.656	ug/l	99
95) Naphthalene	13.74	128	293800	48.503	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	84245	50.652	ug/l	98

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

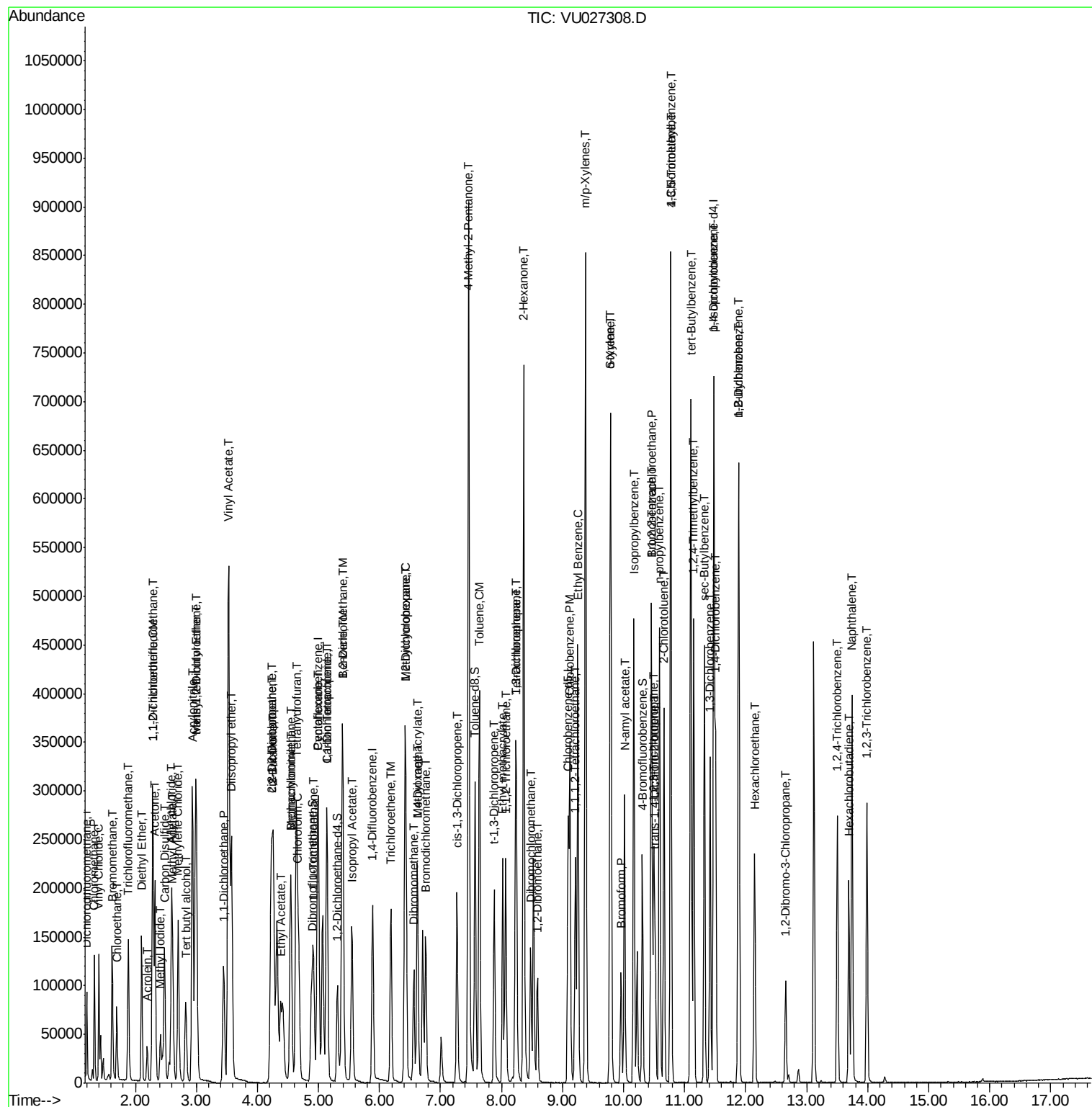
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092818\
Data File : VU027308.D
Acq On : 29 Sep 2018 06:11
Operator : MD/SY
Sample : J5135-03MSD
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 57 Sample Multiplier: 1

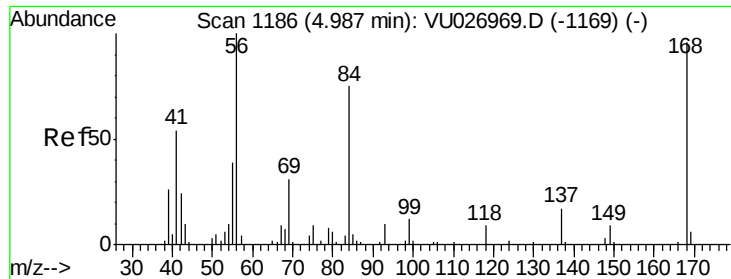
Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM

Quant Time: Oct 01 04:06:01 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion:168 Resp: 80145

Ion Ratio Lower Upper

168 100

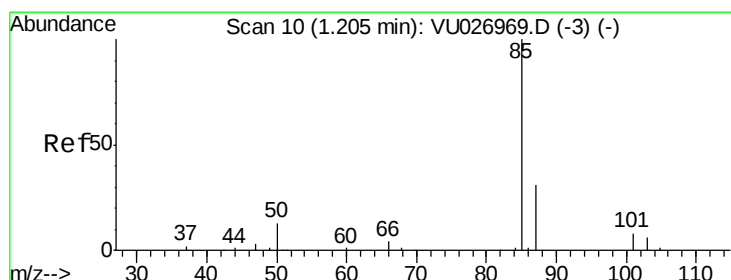
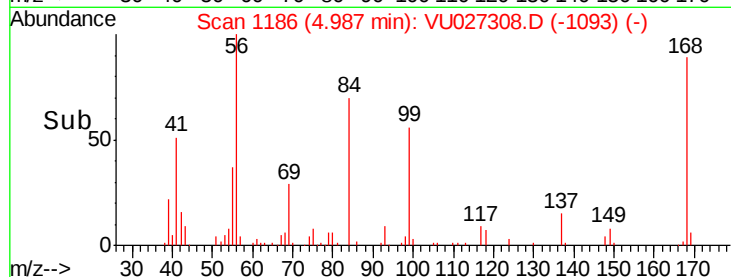
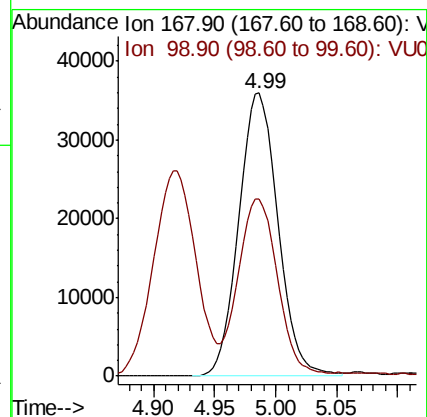
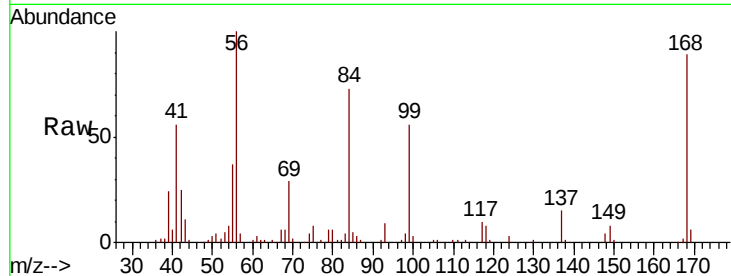
99 61.4 48.1 72.1

Manual Integrations

APPROVED

MMDadoda

10/2/2018 1:08:36 PM



#2

Dichlorodifluoromethane

Concen: 49.693 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU027308.D

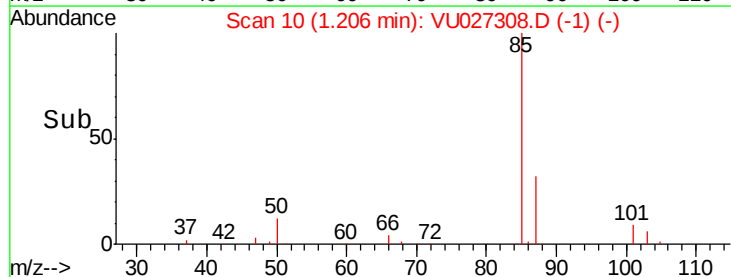
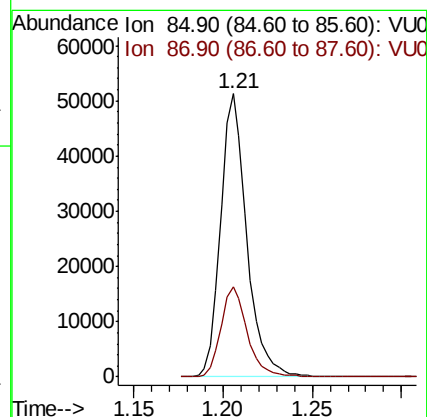
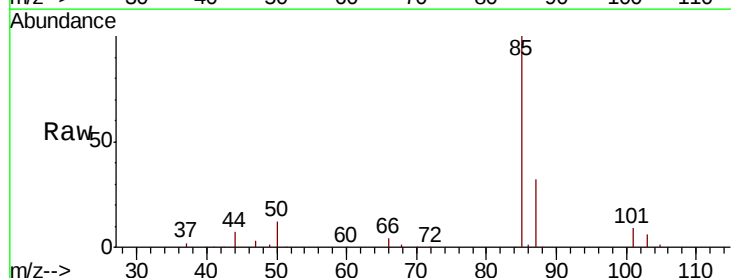
Acq: 29 Sep 2018 06:11

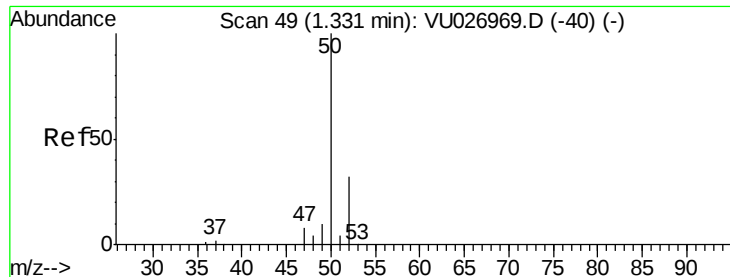
Tgt Ion: 85 Resp: 51999

Ion Ratio Lower Upper

85 100

87 31.8 15.6 46.7





#3

Chloromethane

Concen: 46.418 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion: 50 Resp: 83742

Ion Ratio Lower Upper

50 100

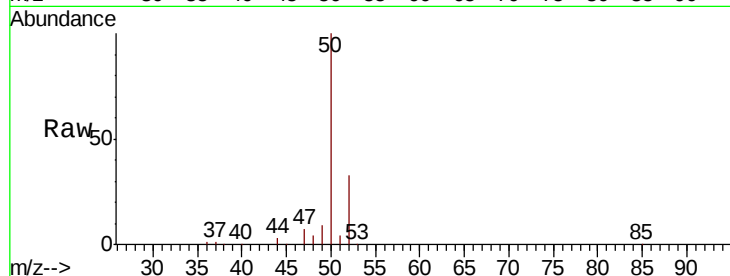
52 32.6 25.9 38.9

Manual Integrations

APPROVED

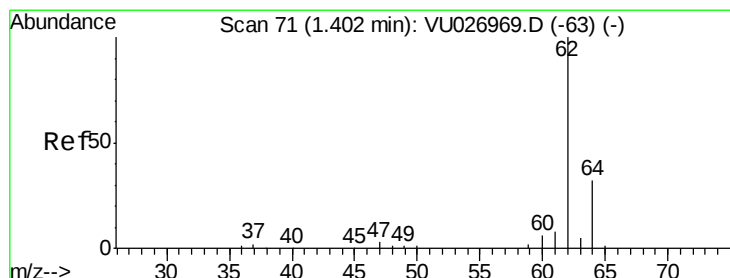
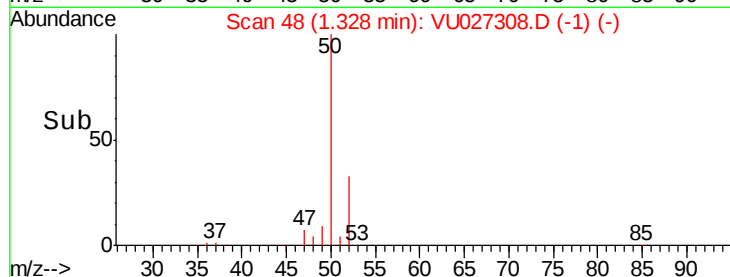
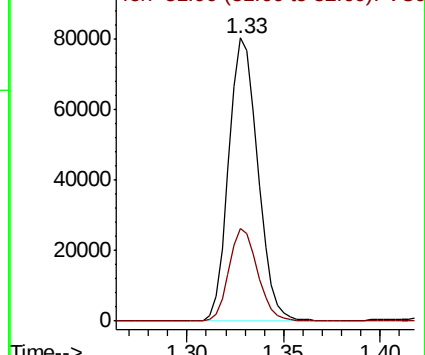
MMDadoda

10/2/2018 1:08:36 PM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 48.296 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU027308.D

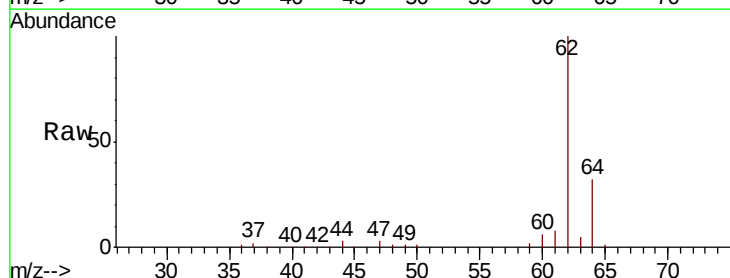
Acq: 29 Sep 2018 06:11

Tgt Ion: 62 Resp: 81333

Ion Ratio Lower Upper

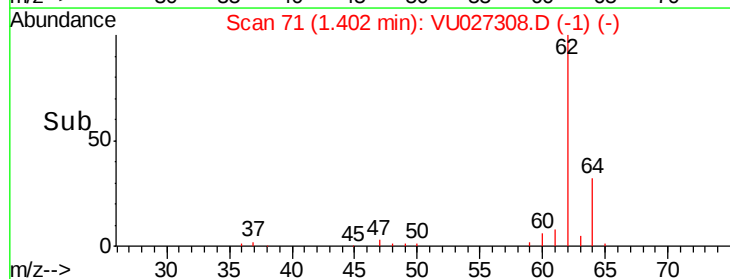
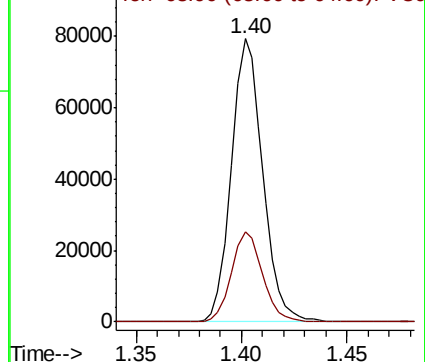
62 100

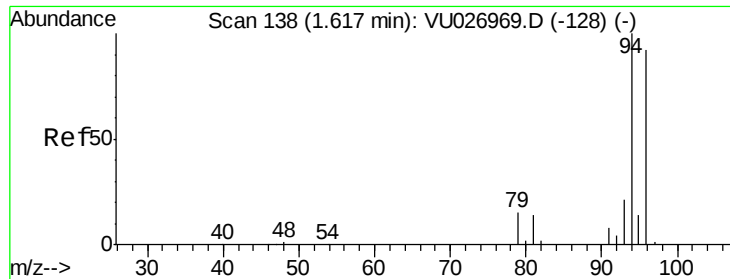
64 32.0 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 63.610 ug/l

RT: 1.62 min Scan# 139

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion: 94 Resp: 61002

Ion Ratio Lower Upper

94 100

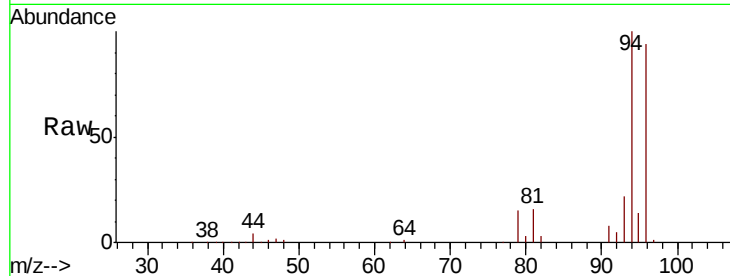
96 94.3 73.2 109.8

Manual Integrations

APPROVED

MMDadoda

10/2/2018 1:08:36 PM



Abundance Ion 93.90 (93.60 to 94.60): VU026969.D (-128) (-)

Ion 95.90 (95.60 to 96.60): VU026969.D (-128) (-)

1.62

50000

40000

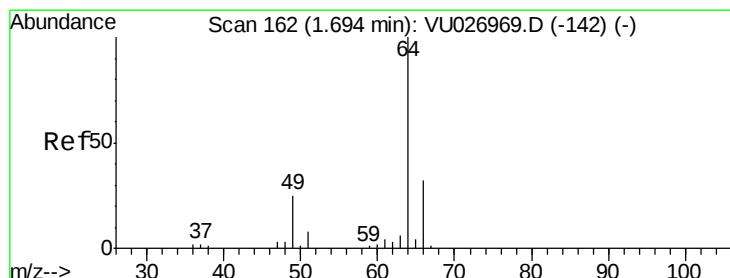
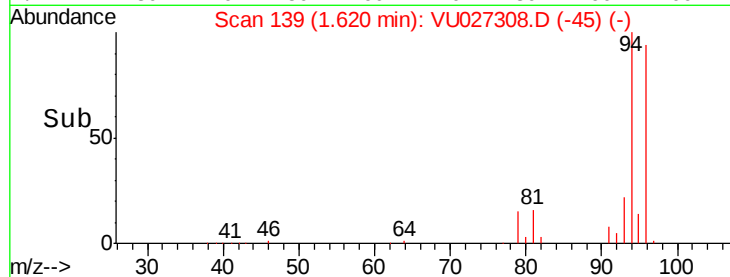
30000

20000

10000

0

Time-->



#6

Chloroethane

Concen: 46.438 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU027308.D

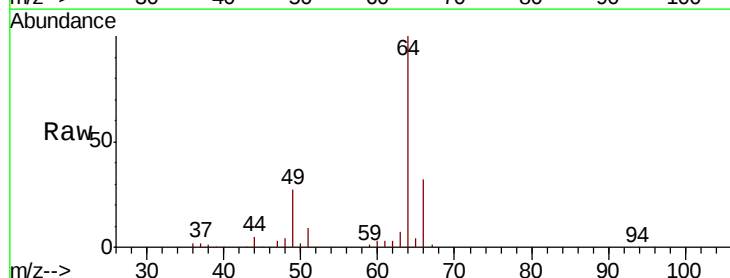
Acq: 29 Sep 2018 06:11

Tgt Ion: 64 Resp: 49967

Ion Ratio Lower Upper

64 100

66 32.4 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)

1.69

40000

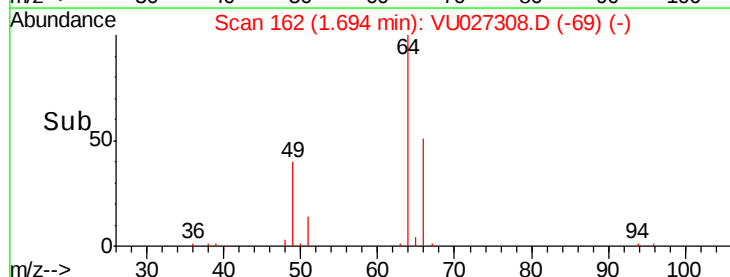
30000

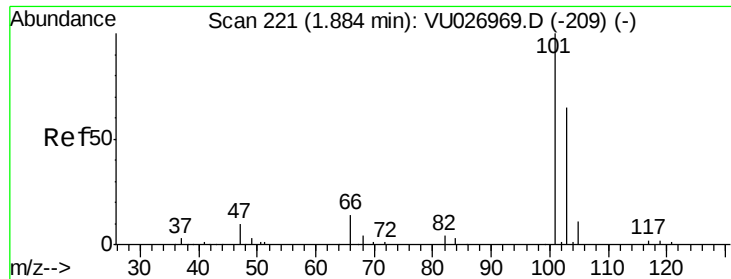
20000

10000

0

Time-->





#7

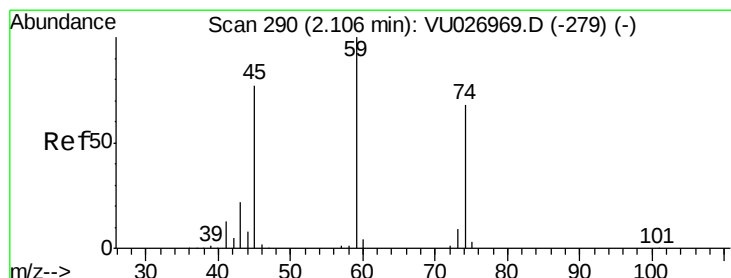
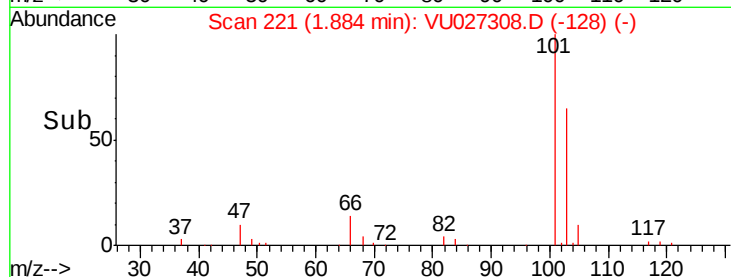
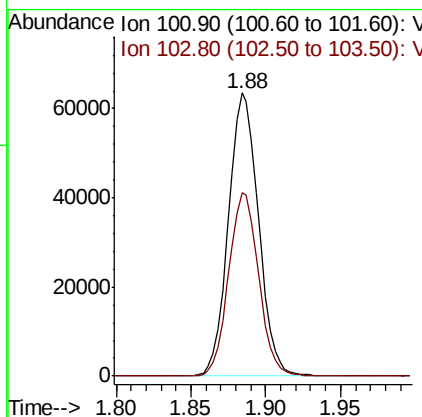
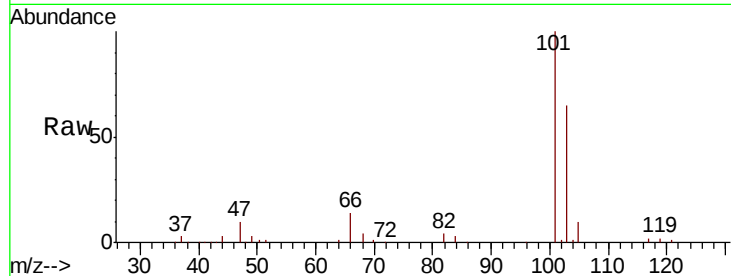
Trichlorofluoromethane
 Concen: 46.555 ug/l
 RT: 1.88 min Scan# 221
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion:101 Resp: 89045
 Ion Ratio Lower Upper
 101 100
 103 64.7 52.2 78.2

Manual Integrations
 APPROVED

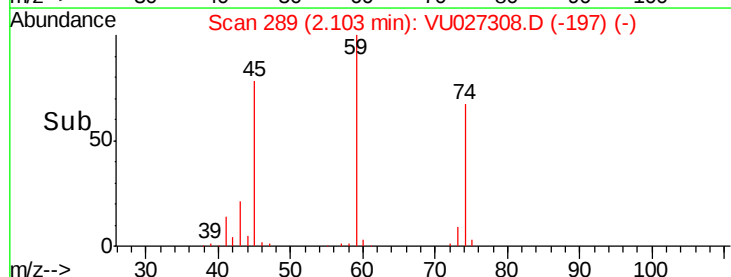
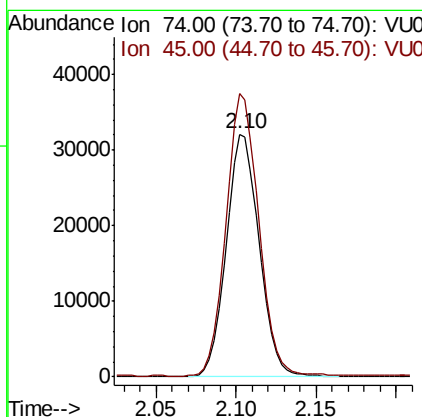
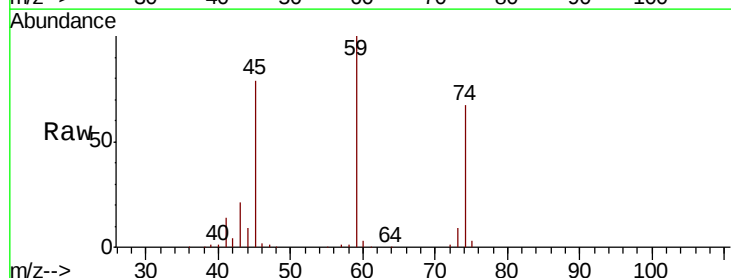
MMDadoda
 10/2/2018 1:08:36 PM

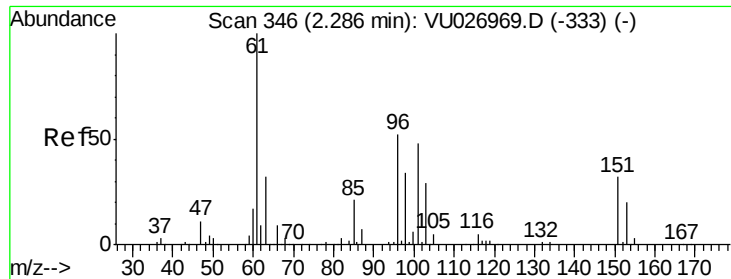


#8

Diethyl Ether
 Concen: 48.879 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion: 74 Resp: 45000
 Ion Ratio Lower Upper
 74 100
 45 115.9 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.185 ug/l

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

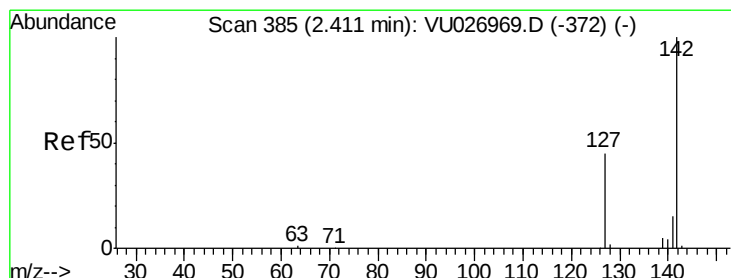
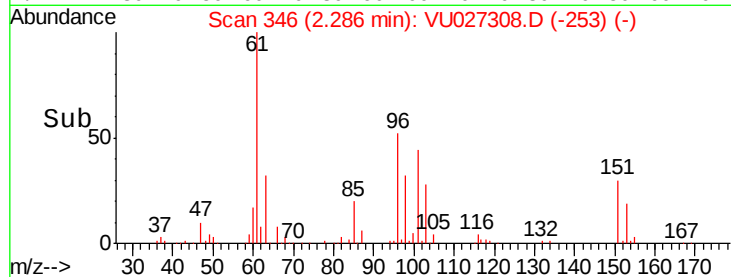
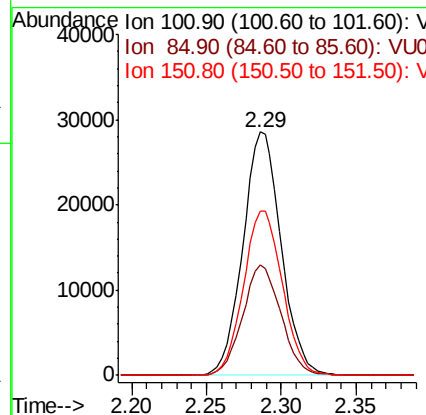
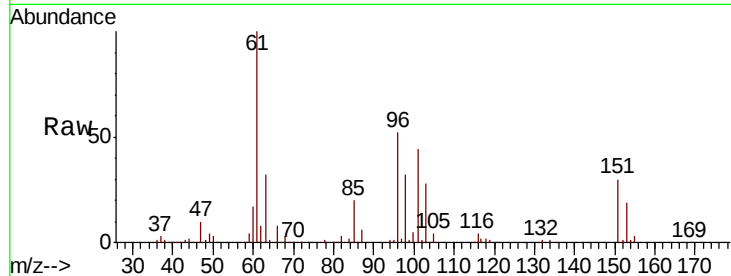
ClientSampleId :

SA-TW502-0913MSD

Tot Ion:	101	Resp:	50788
Ion Ratio	Lower	Upper	
101	100		
85	45.2	36.2	54.2
151	68.8	54.5	81.7

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#10

Methyl Iodide

Concen: 31.710 ug/l

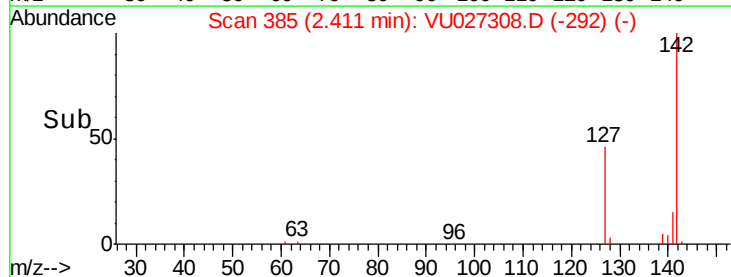
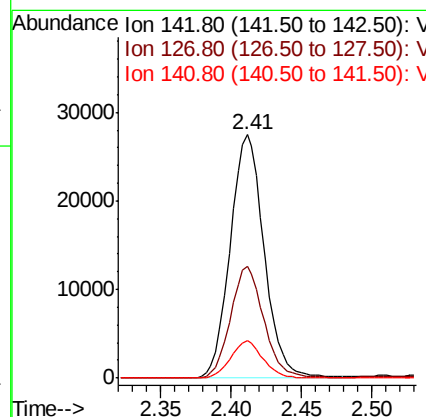
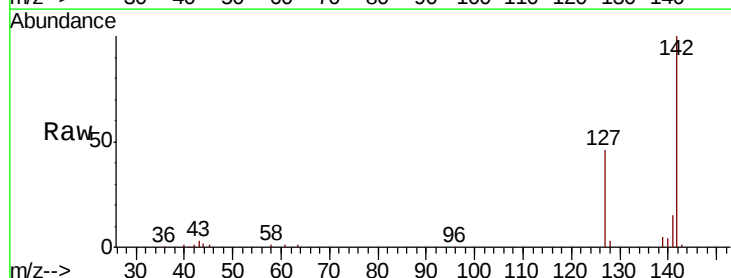
RT: 2.41 min Scan# 385

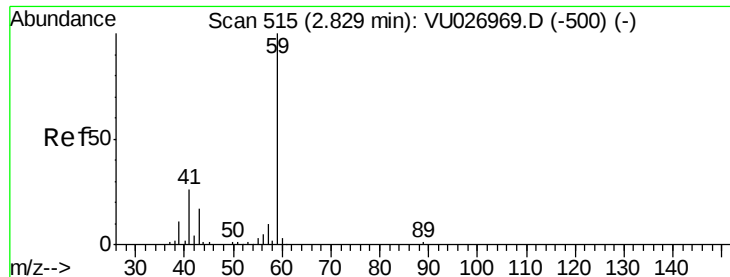
Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Tgt Ion:	142	Resp:	46252
Ion Ratio	Lower	Upper	
142	100		
127	45.1	36.7	55.1
141	14.4	11.8	17.6





#11

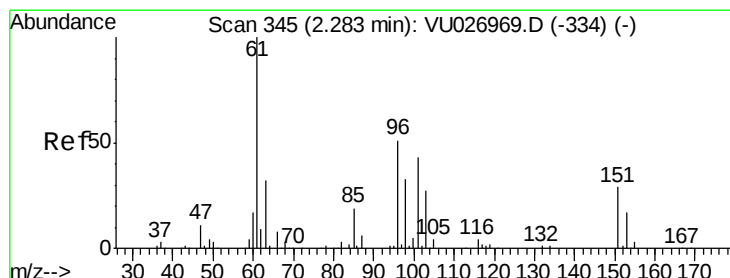
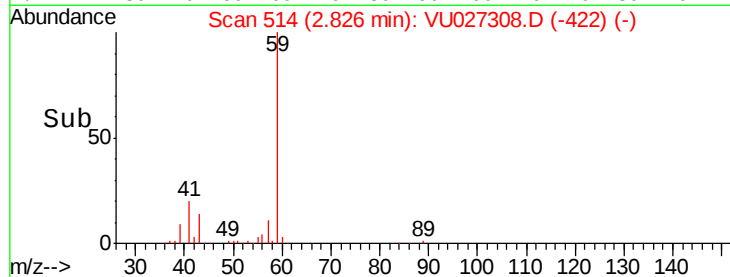
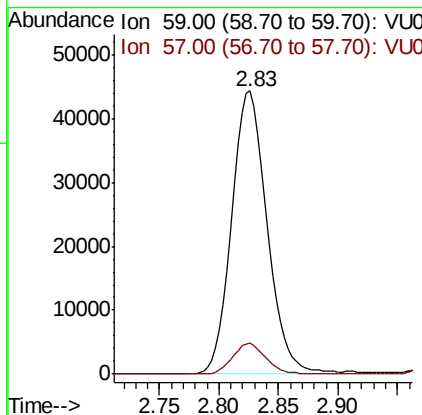
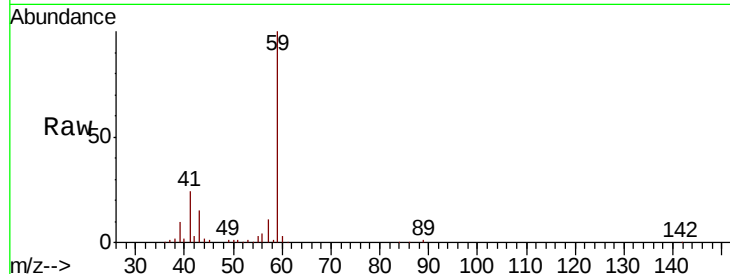
Tert butyl alcohol
 Concen: 248.237 ug/l
 RT: 2.83 min Scan# 514
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.5	12.7

Manual Integrations
 APPROVED

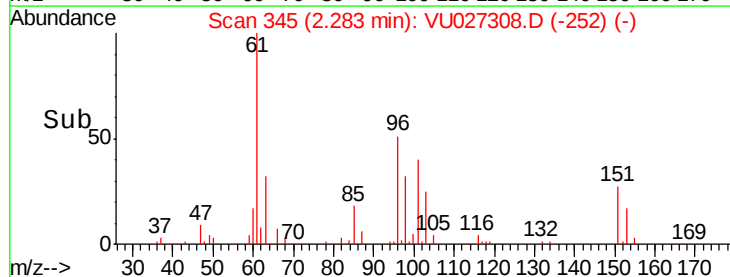
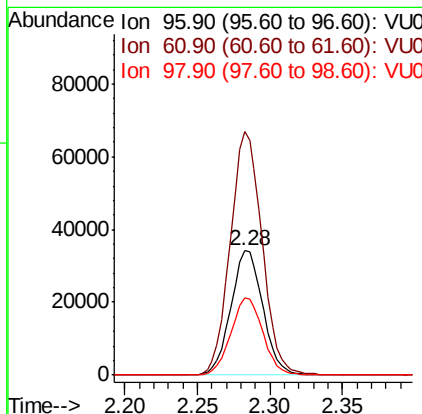
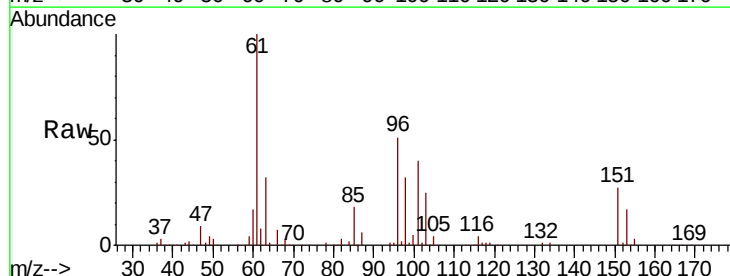
MMDadoda
 10/2/2018 1:08:36 PM

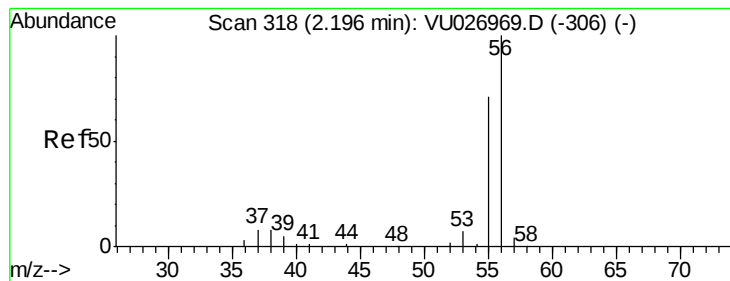


#12

1,1-Dichloroethene
 Concen: 47.265 ug/l
 RT: 2.28 min Scan# 345
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	195.6	156.1	234.1
98	61.6	51.4	77.0





#13

Acrolein

Concen: 127.167 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion: 56 Resp: 25345

Ion Ratio Lower Upper

56 100

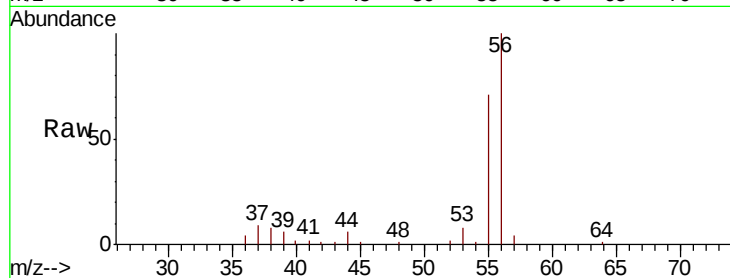
55 70.9 57.1 85.7

Manual Integrations

APPROVED

MMDadoda

10/2/2018 1:08:36 PM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.20

15000

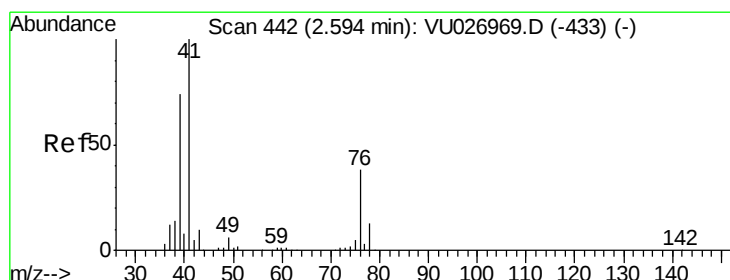
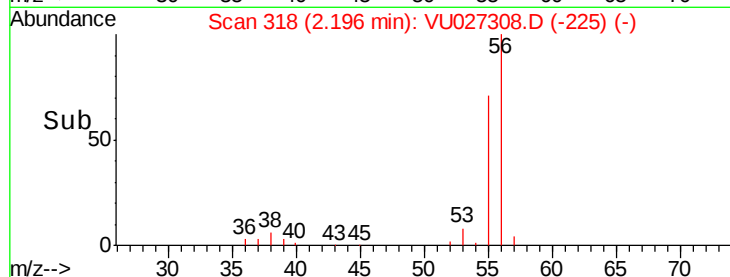
10000

5000

0

Time-->

2.15 2.20 2.25 2.30



#14

Allyl chloride

Concen: 53.567 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

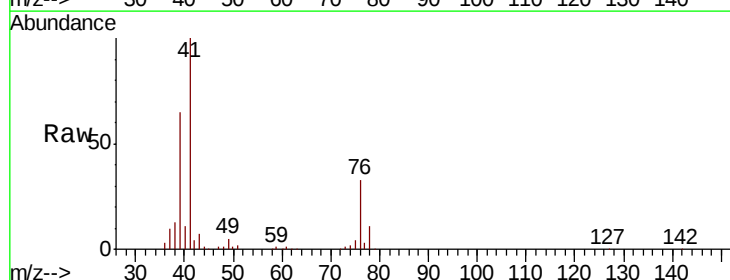
Tgt Ion: 41 Resp: 120264

Ion Ratio Lower Upper

41 100

39 66.7 55.7 83.5

76 33.3 26.5 39.7



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

2.59

80000

60000

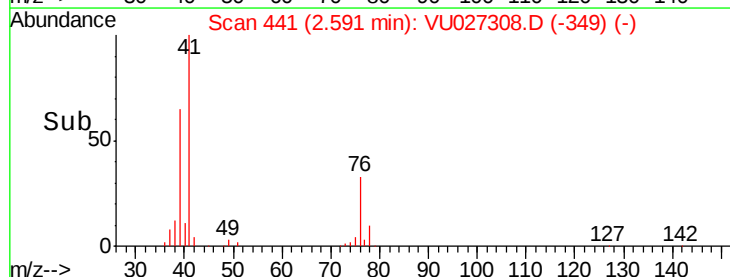
40000

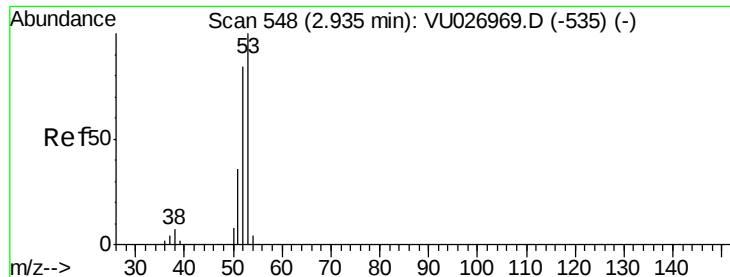
20000

0

Time-->

2.55 2.60 2.65





#15

Acrylonitrile

Concen: 262.764 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

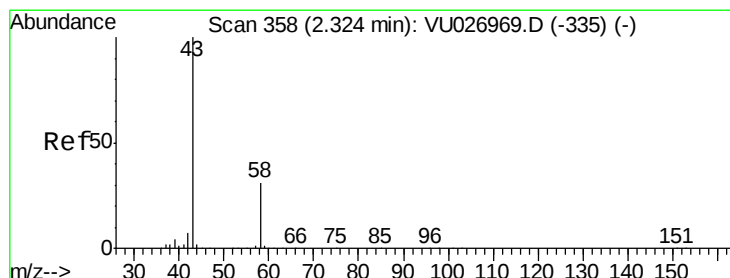
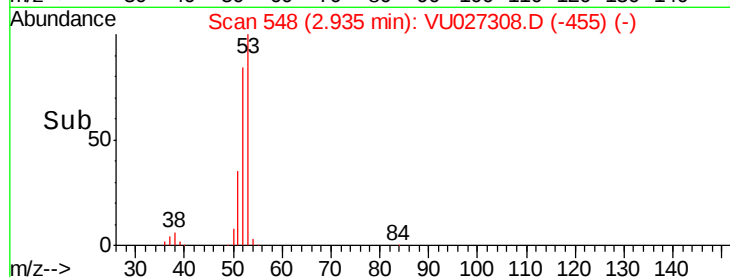
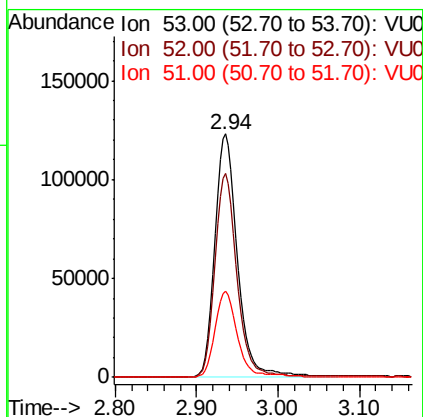
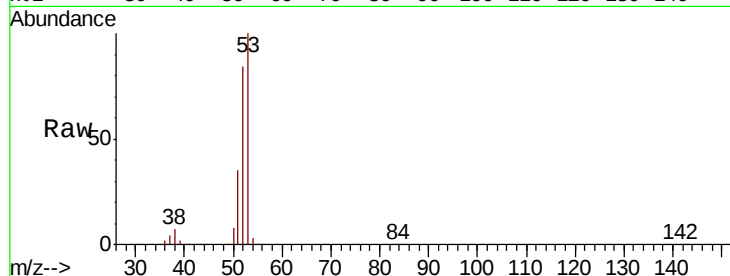
ClientSampleId :

SA-TW502-0913MSD

Tot Ion:	53	Resp:	244855
Ion Ratio	Lower	Upper	
53	100		
52	81.4	65.7	98.5
51	34.2	27.4	41.2

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#16

Acetone

Concen: 245.063 ug/l

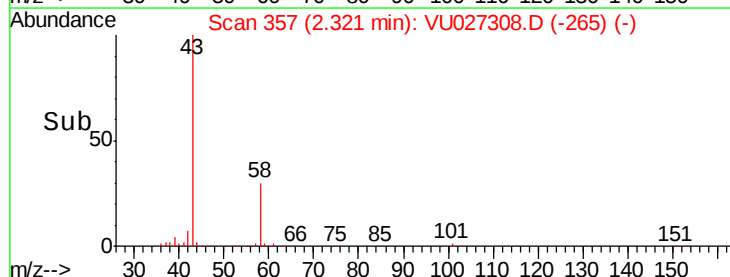
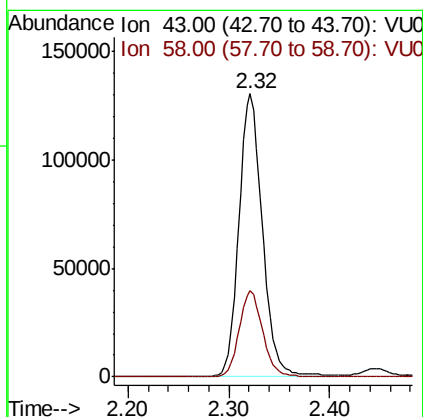
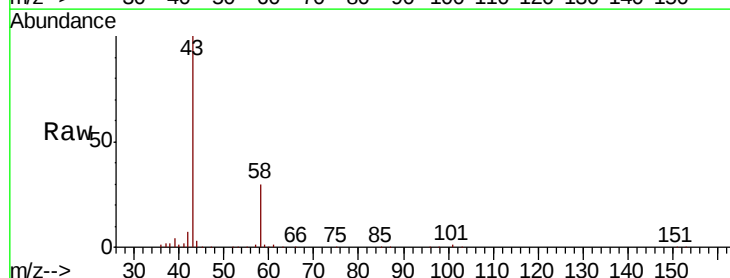
RT: 2.32 min Scan# 357

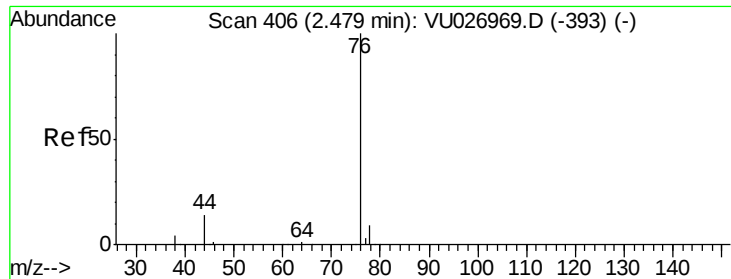
Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Tgt Ion:	43	Resp:	210260
Ion Ratio	Lower	Upper	
43	100		
58	30.4	24.6	36.8





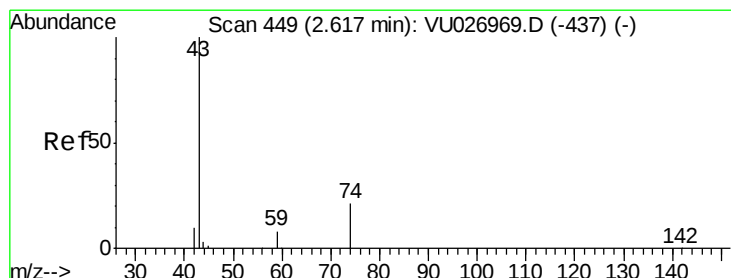
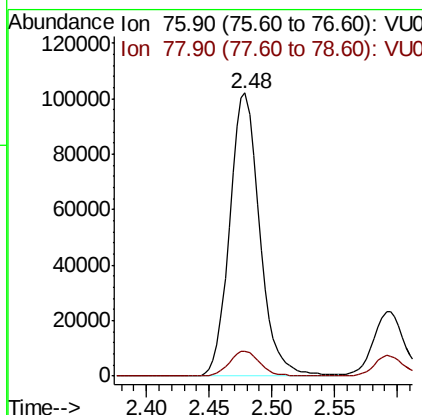
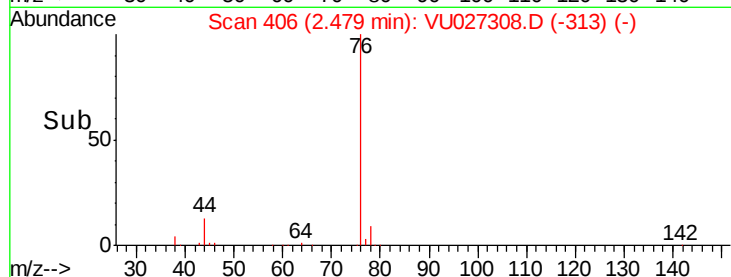
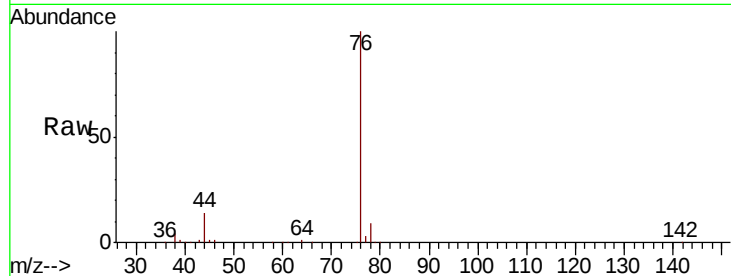
#17
Carbon Disulfide
Concen: 47.270 ug/l
RT: 2.48 min Scan# 406
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

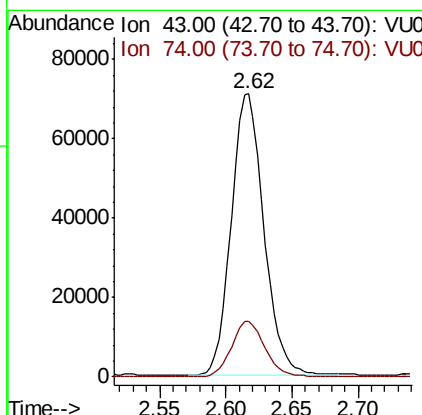
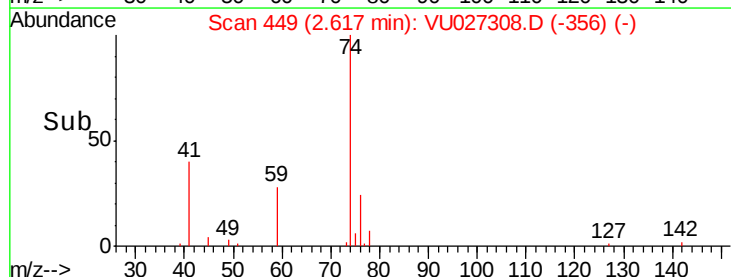
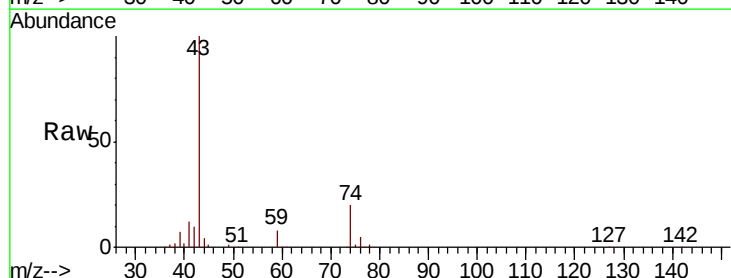
Manual Integrations
APPROVED

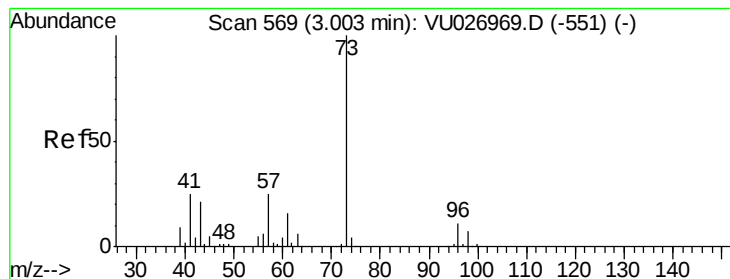
MMDadoda
10/2/2018 1:08:36 PM



#18
Methyl Acetate
Concen: 52.927 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.4	16.6	25.0





#19

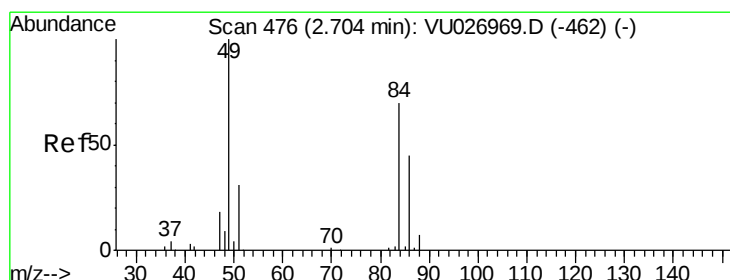
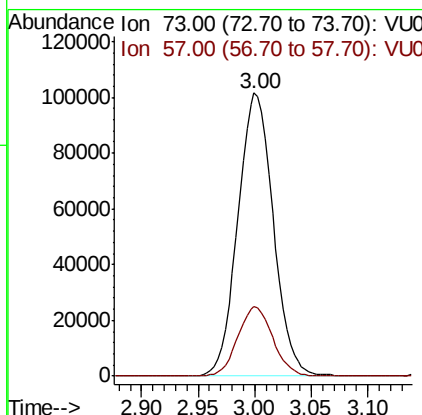
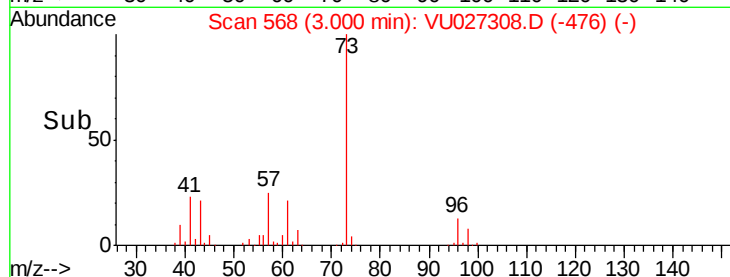
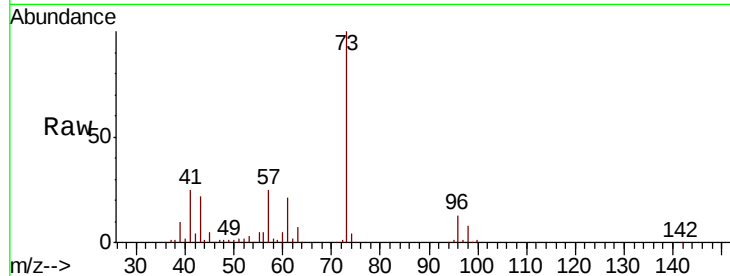
Methyl tert-butyl Ether
 Concen: 54.493 ug/l
 RT: 3.00 min Scan# 568
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.6	19.8	29.6

Manual Integrations
 APPROVED

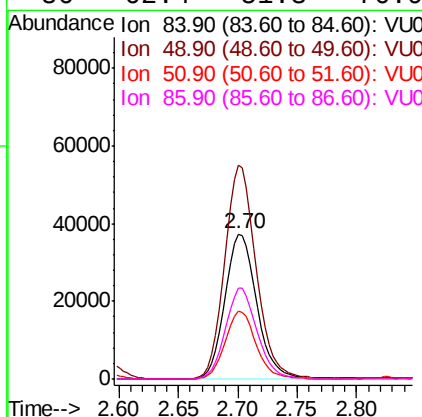
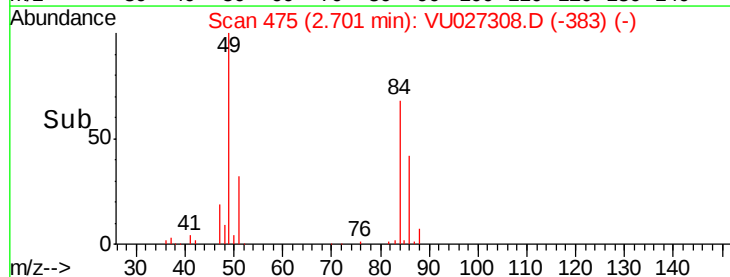
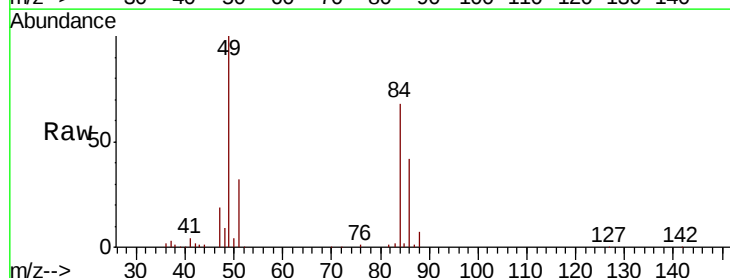
MMDadoda
 10/2/2018 1:08:36 PM

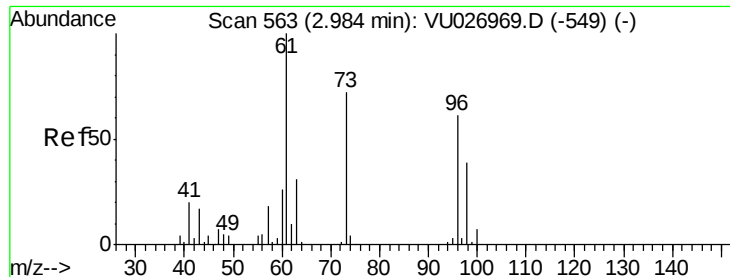


#20

Methylene Chloride
 Concen: 48.033 ug/l
 RT: 2.70 min Scan# 475
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.1	114.9	172.3
51	46.4	35.8	53.8
86	62.4	51.3	76.9





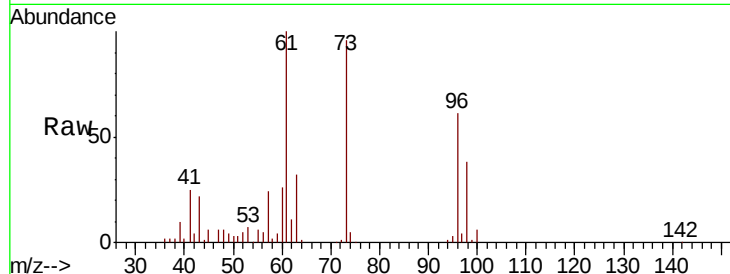
#21
trans-1,2-Dichloroethene
Concen: 50.212 ug/l
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

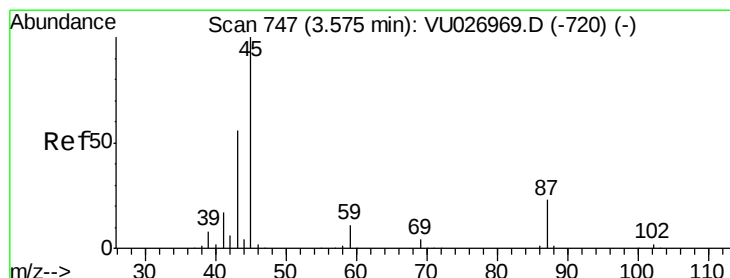
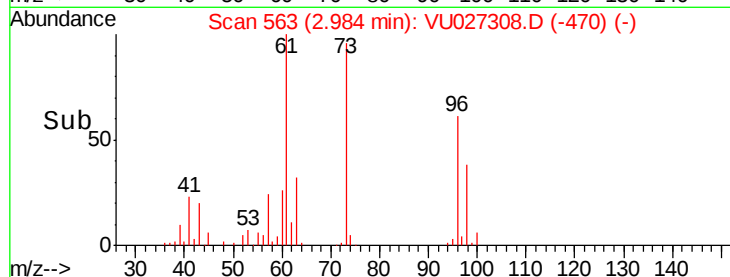
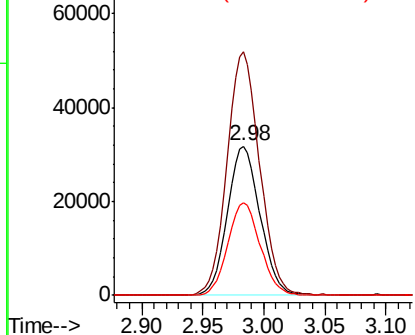
Tot Ion	Ratio	Lower	Upper
96	100		
61	162.8	131.8	197.6
98	62.3	50.9	76.3

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



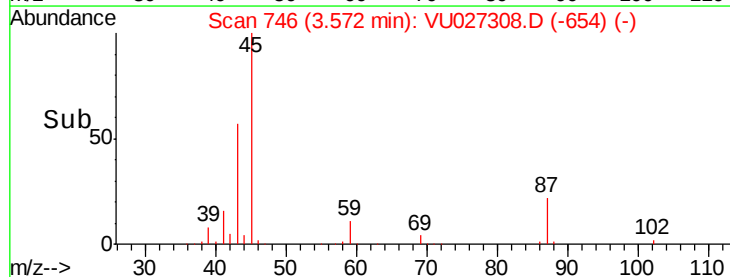
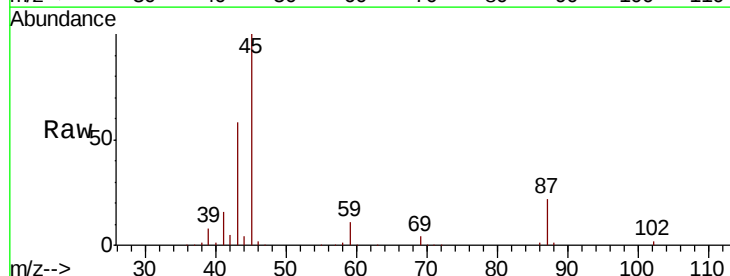
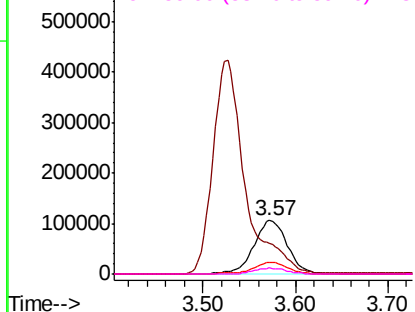
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0

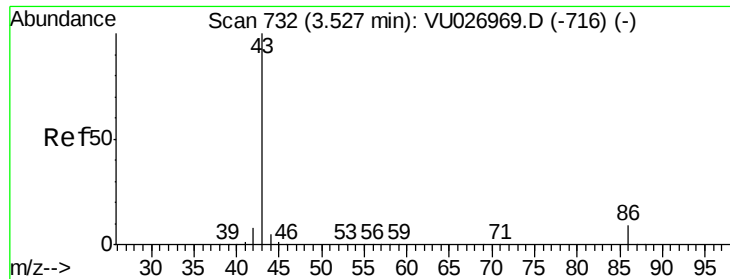


#22
Diisopropyl ether
Concen: 55.683 ug/l
RT: 3.57 min Scan# 746
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.8	45.8	68.6
87	21.9	18.6	28.0
59	10.8	9.0	13.4

Abundance Ion 45.00 (44.70 to 45.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 87.00 (86.70 to 87.70): VU0
Ion 59.00 (58.70 to 59.70): VU0





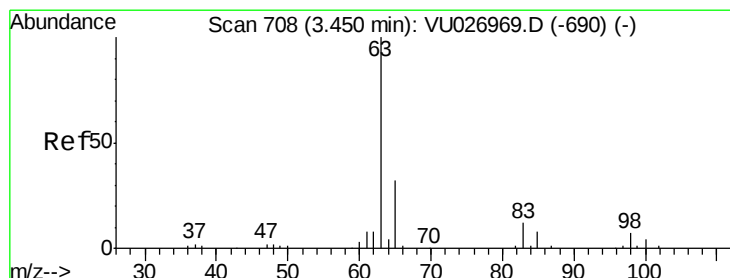
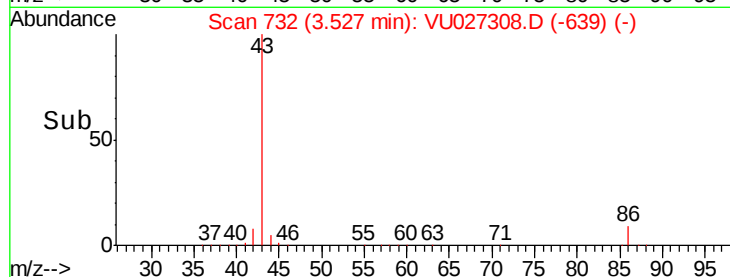
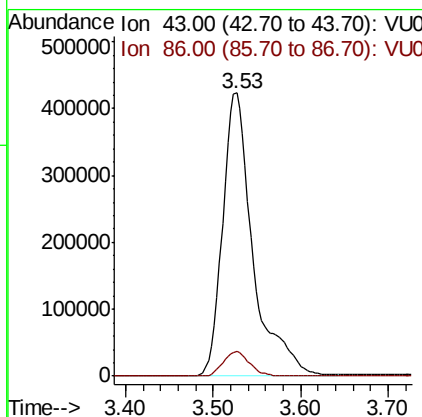
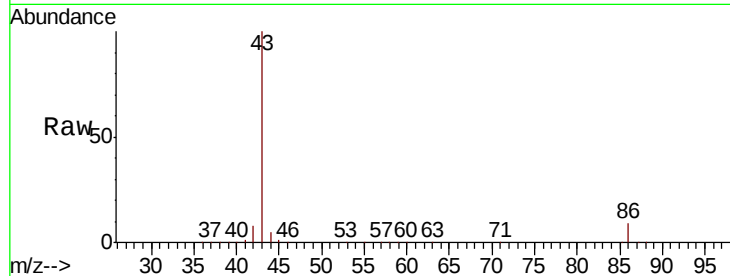
#23
 Vinyl Acetate
 Concen: 250.007 ug/l
 RT: 3.53 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion: 43 Resp: 1023376
 Ion Ratio Lower Upper
 43 100
 86 8.7 7.2 10.8

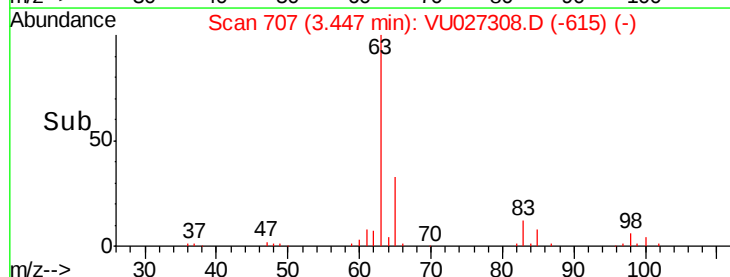
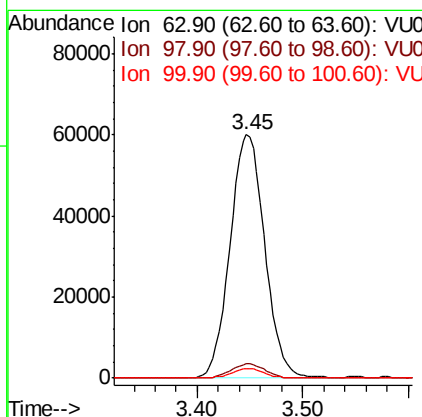
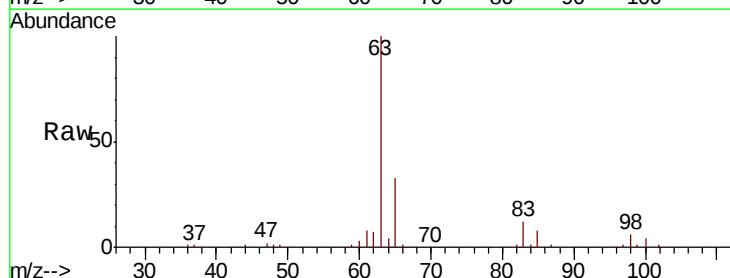
Manual Integrations
 APPROVED

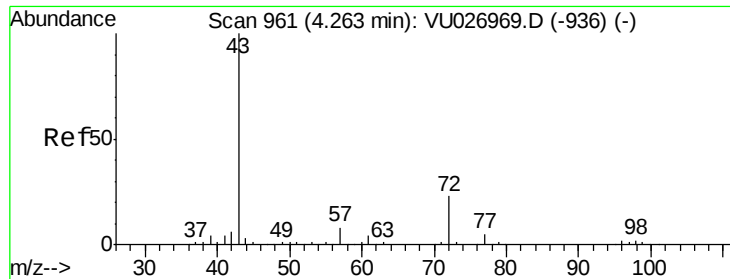
MMDadoda
 10/2/2018 1:08:36 PM



#24
 1,1-Dichloroethane
 Concen: 51.857 ug/l
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion: 63 Resp: 137150
 Ion Ratio Lower Upper
 63 100
 98 5.8 3.3 9.8
 100 3.9 2.0 5.8





#25

2-Butanone

Concen: 253.640 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion: 43 Resp: 343831

Ion Ratio Lower Upper

43 100

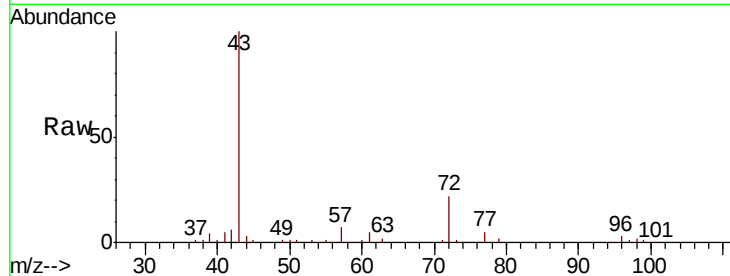
72 22.2 18.4 27.6

Manual Integrations

APPROVED

MMDadoda

10/2/2018 1:08:36 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

150000

100000

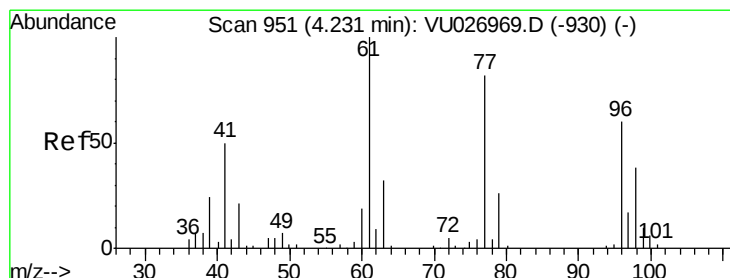
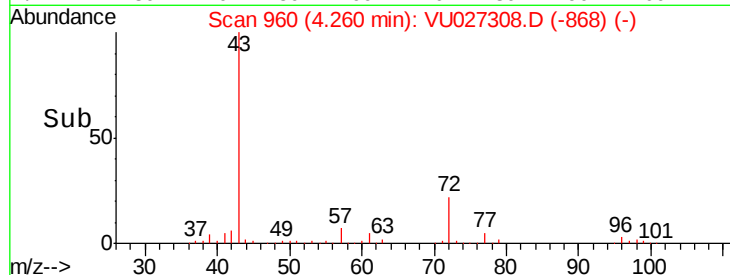
50000

0

4.10 4.20 4.30

4.26

Time-->



#26

2,2-Dichloropropane

Concen: 40.020 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU027308.D

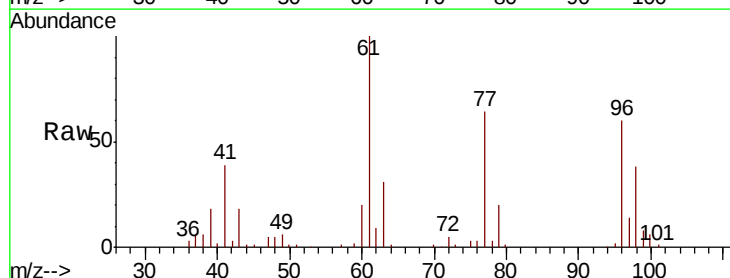
Acq: 29 Sep 2018 06:11

Tgt Ion: 77 Resp: 82546

Ion Ratio Lower Upper

77 100

97 22.2 10.5 31.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

30000

20000

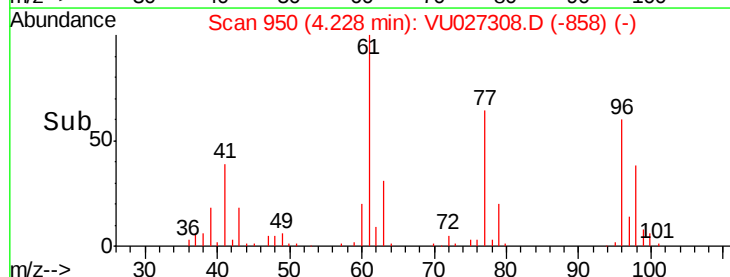
10000

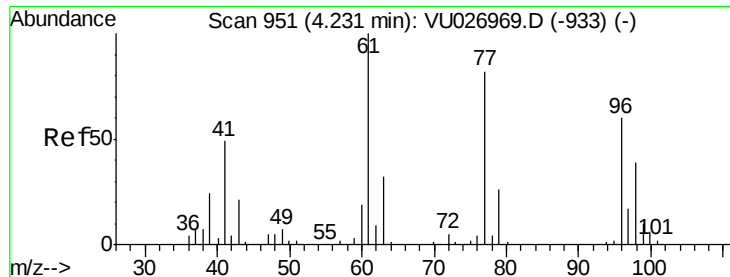
0

4.10 4.20 4.30

4.23

Time-->





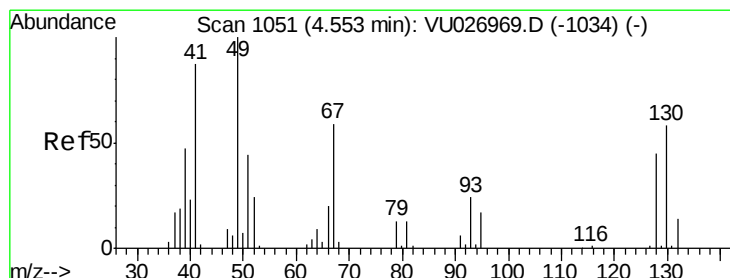
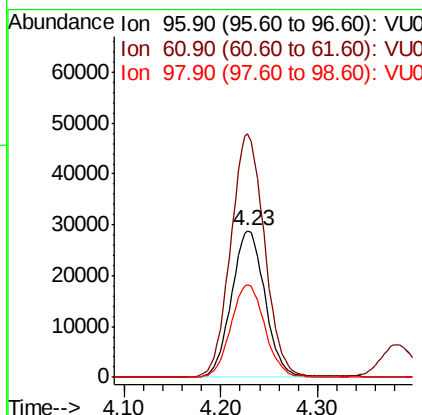
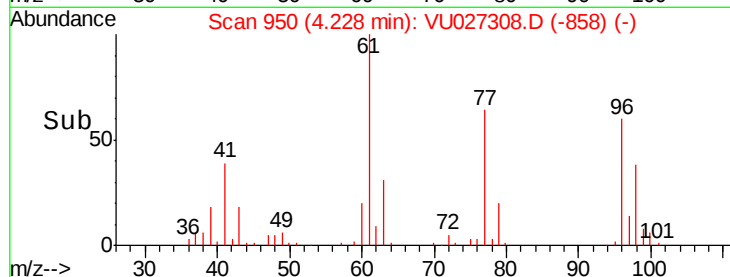
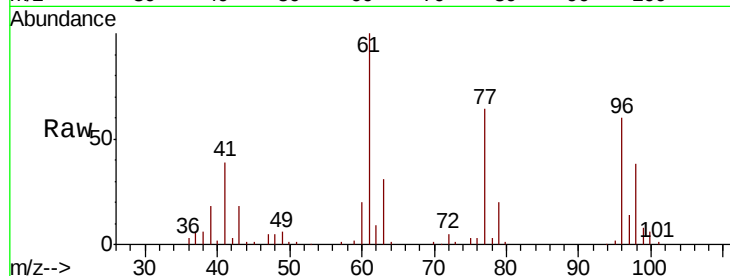
#27
 cis-1,2-Dichloroethene
 Concen: 52.045 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
96	100		
61	167.5	0.0	337.2
98	63.9	0.0	127.6

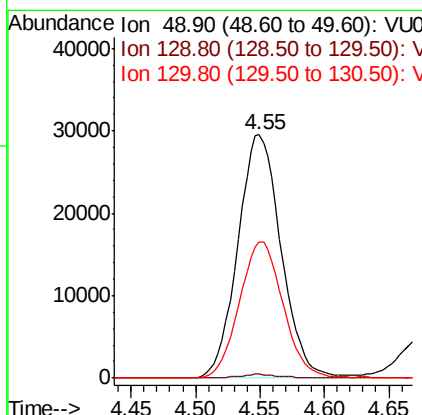
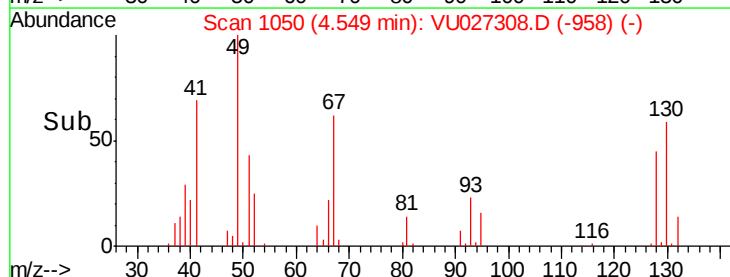
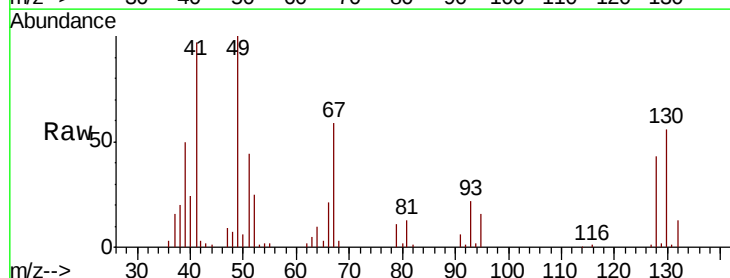
Manual Integrations
 APPROVED

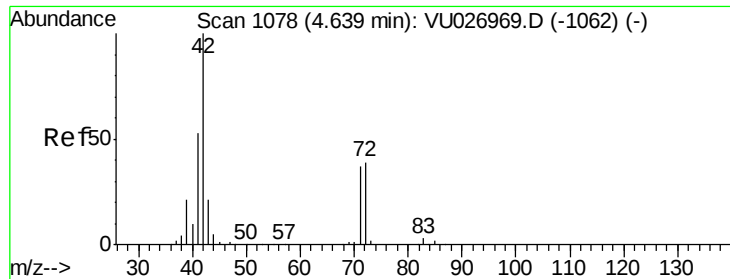
MMDadoda
 10/2/2018 1:08:36 PM



#28
 Bromochloromethane
 Concen: 53.977 ug/l
 RT: 4.55 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.0
130	56.7	47.8	71.8





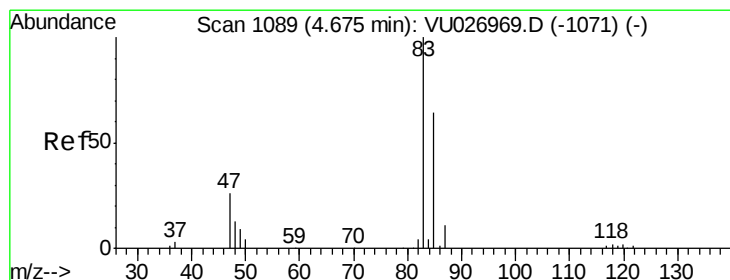
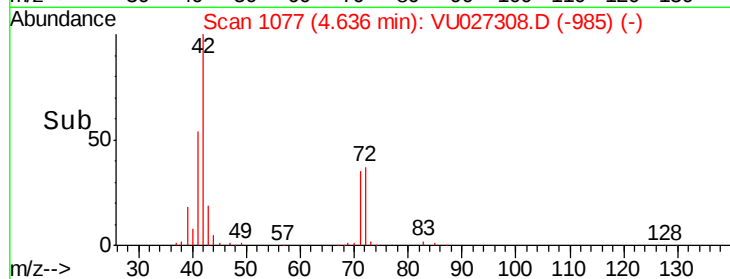
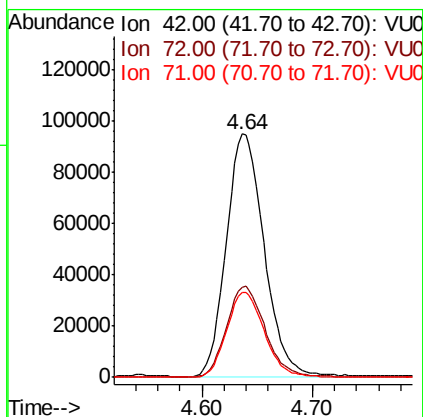
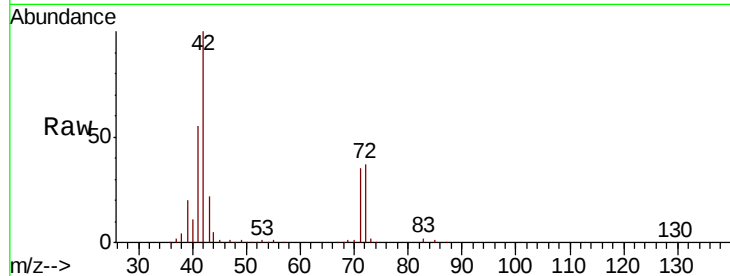
#29
Tetrahydrofuran
Concen: 274.362 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.1	31.7	47.5
71	35.2	29.6	44.4

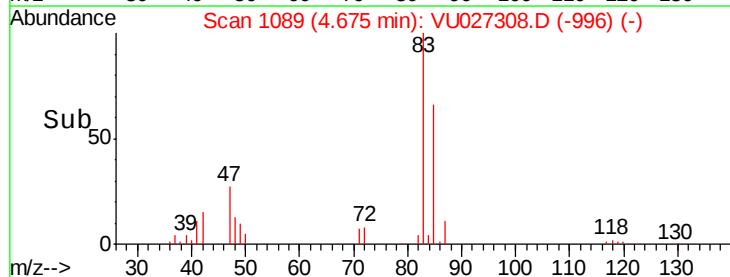
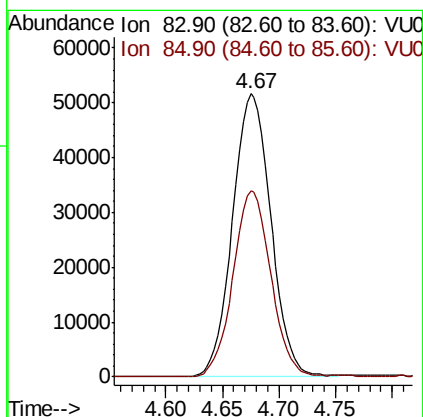
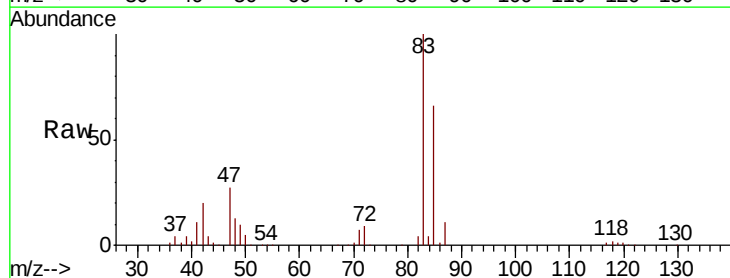
Manual Integrations
APPROVED

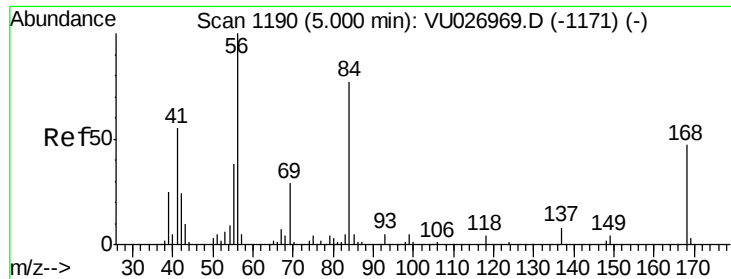
MMDadoda
10/2/2018 1:08:36 PM



#30
Chloroform
Concen: 49.798 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.5	77.3





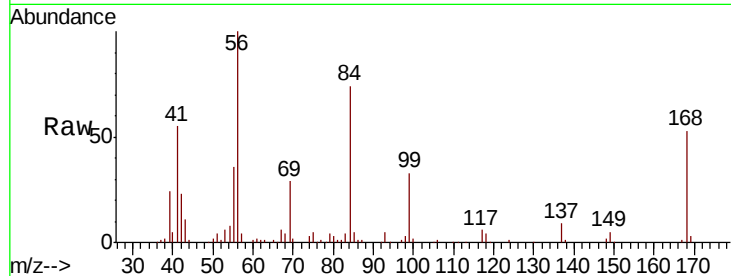
#31
Cyclohexane
Concen: 50.510 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

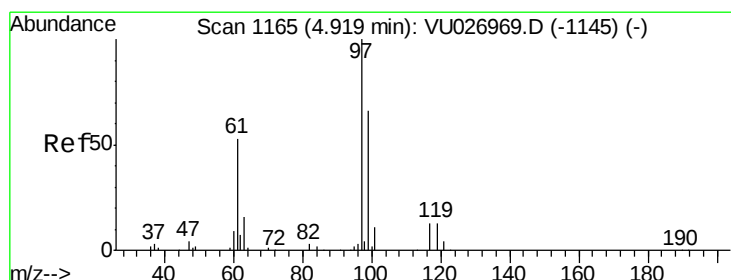
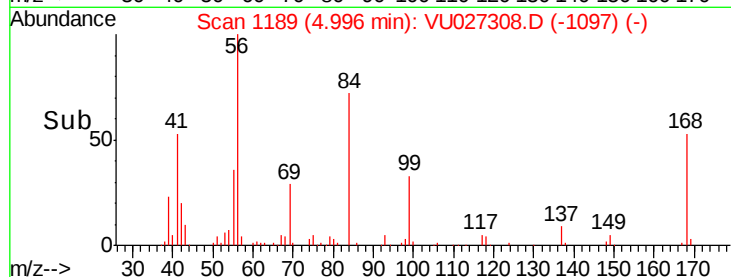
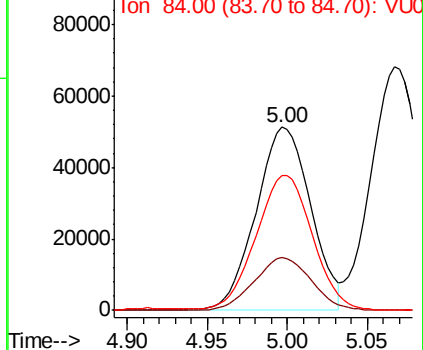
Tot Ion	Ratio	Lower	Upper
56	100		
69	28.7	23.0	34.4
84	72.9	61.4	92.2

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM

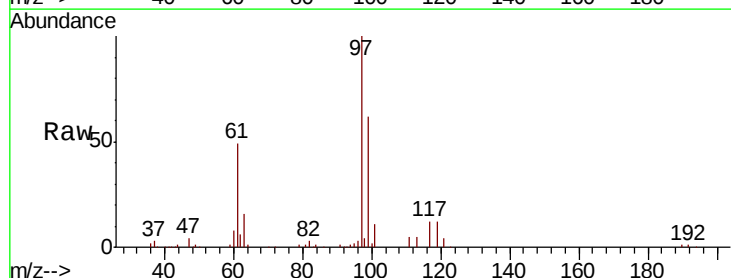


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

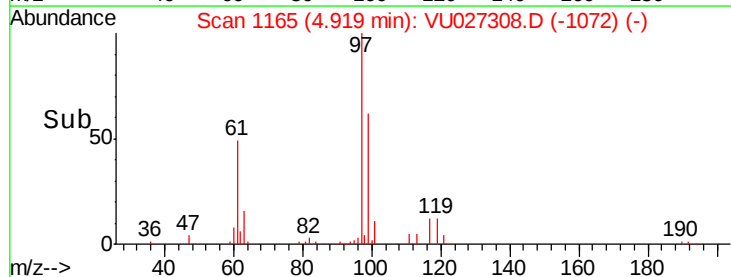
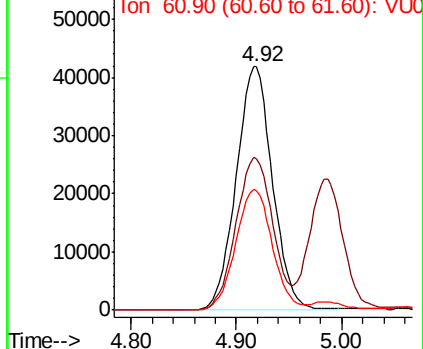


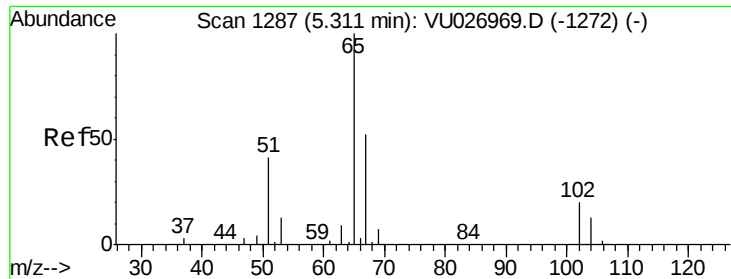
#32
1,1,1-Trichloroethane
Concen: 51.056 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.8	77.6
61	50.0	41.1	61.7



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





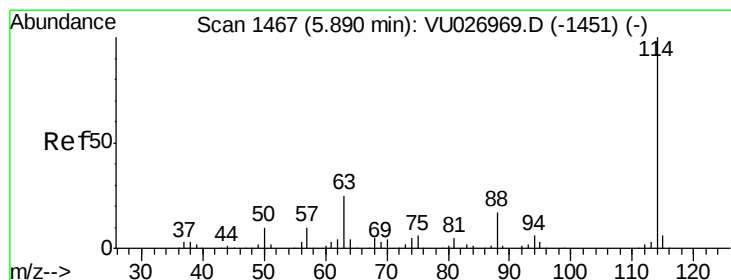
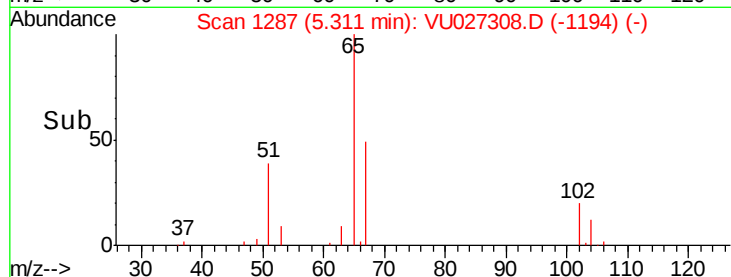
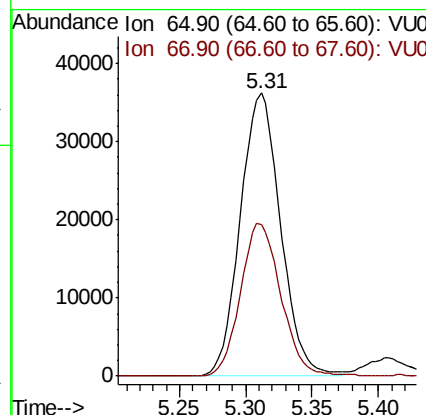
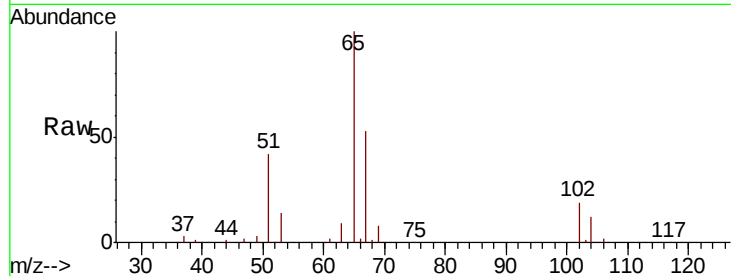
#33
 1,2-Dichloroethane-d4
 Concen: 47.438 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	105.6

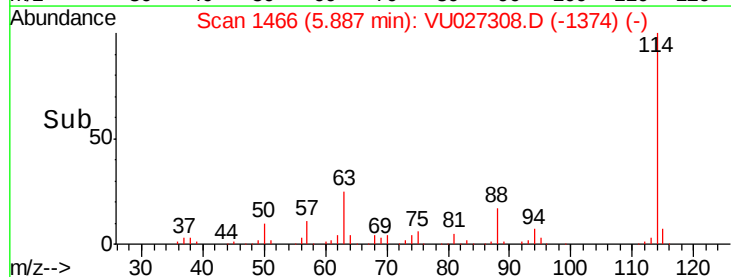
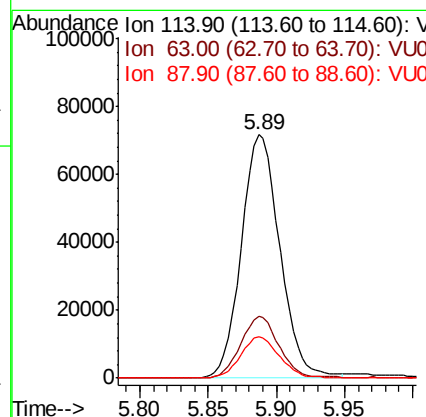
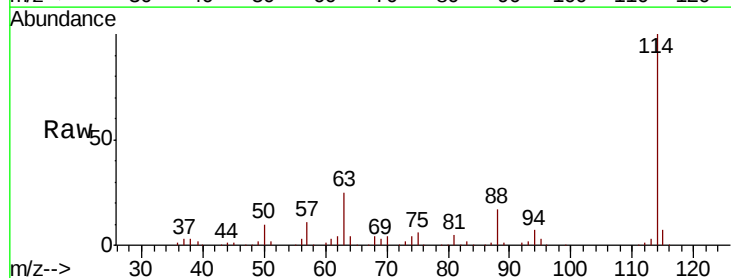
Manual Integrations
 APPROVED

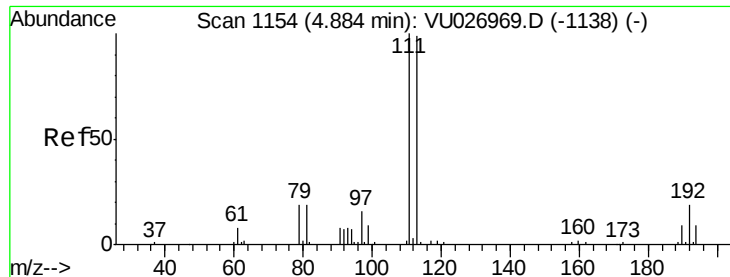
MMDadoda
 10/2/2018 1:08:36 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.2	0.0	49.2
88	17.0	0.0	33.8





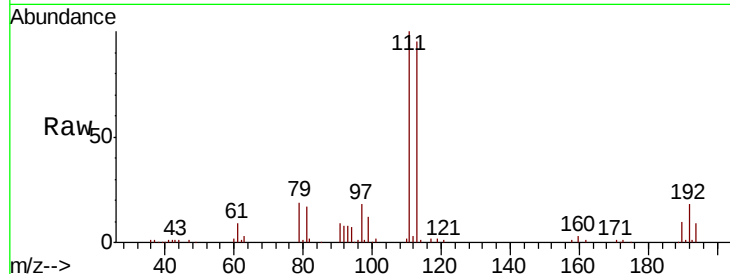
#35
 Dibromofluoromethane
 Concen: 45.848 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

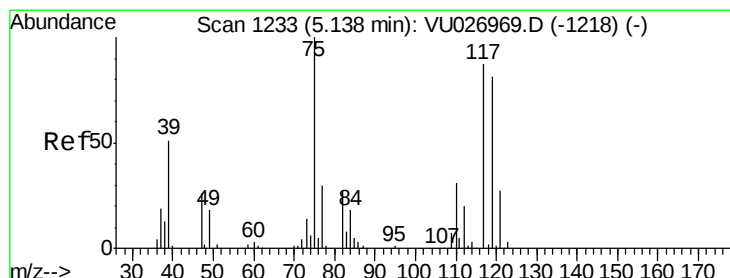
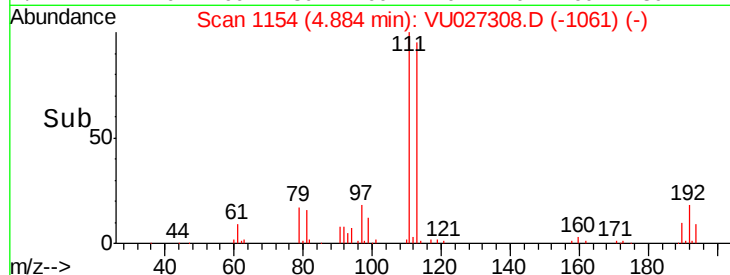
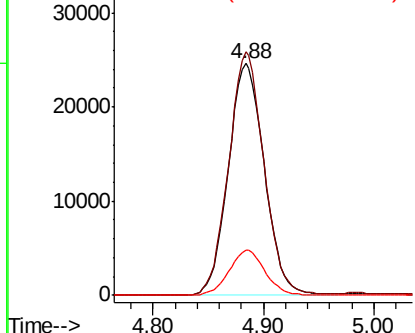
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	19.0	15.2	22.8

Manual Integrations
 APPROVED

MMDadoda
 10/2/2018 1:08:36 PM

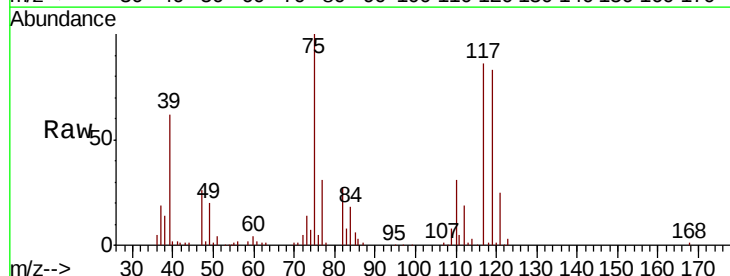


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

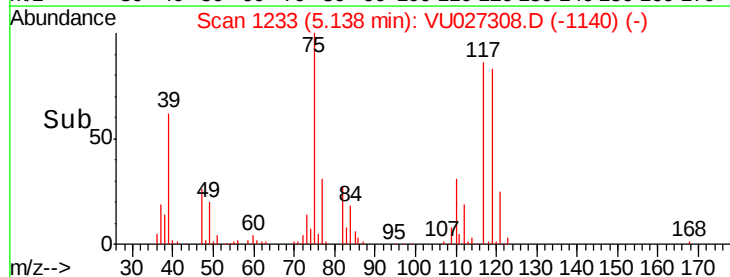
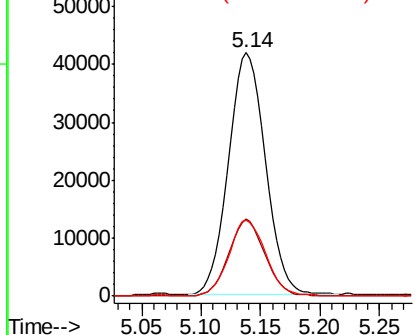


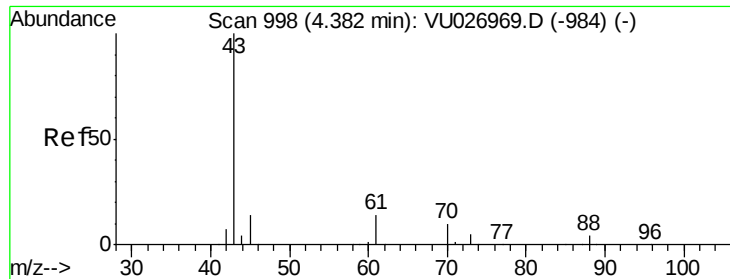
#36
 1,1-Dichloropropene
 Concen: 48.032 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.2	16.1	48.2
77	31.5	24.6	36.8



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





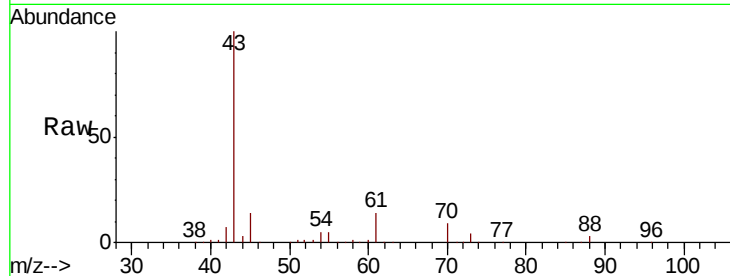
#37
Ethyl Acetate
Concen: 45.272 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

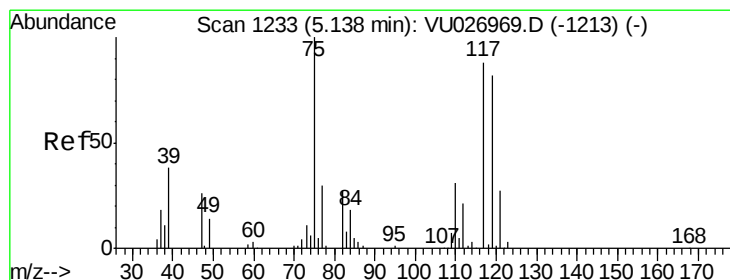
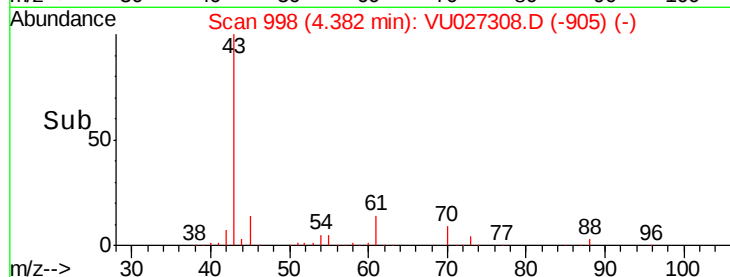
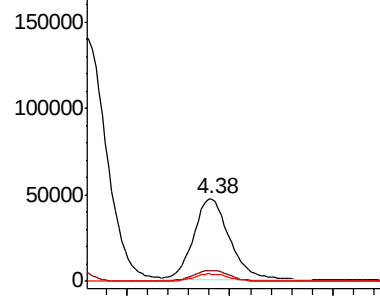
Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.5	15.7
70	9.0	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM

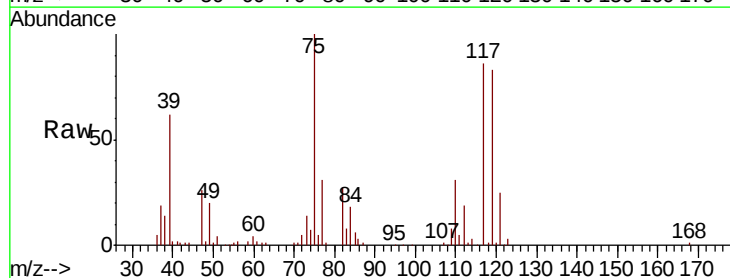


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 70.00 (69.70 to 70.70): VU0

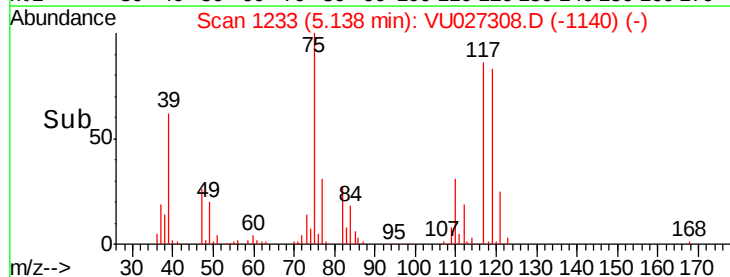
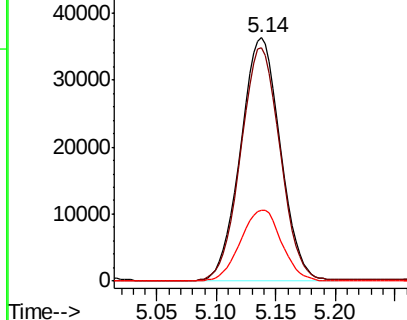


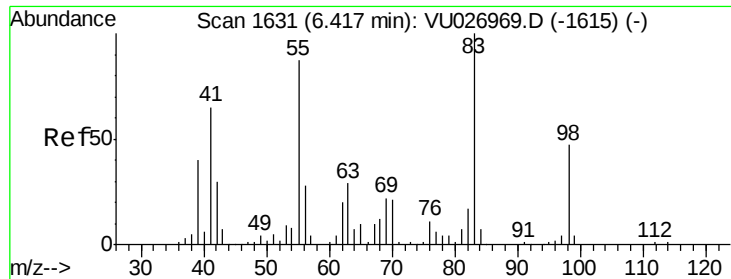
#38
Carbon Tetrachloride
Concen: 47.266 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	74.4	111.6
121	29.3	24.2	36.4



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





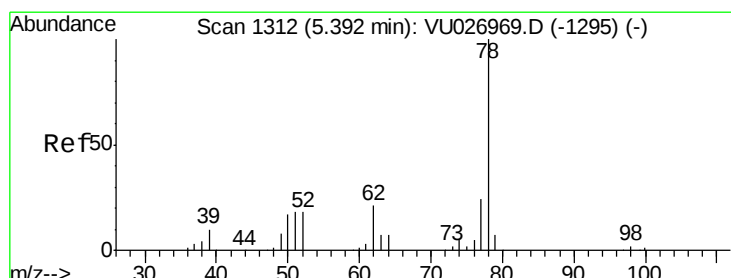
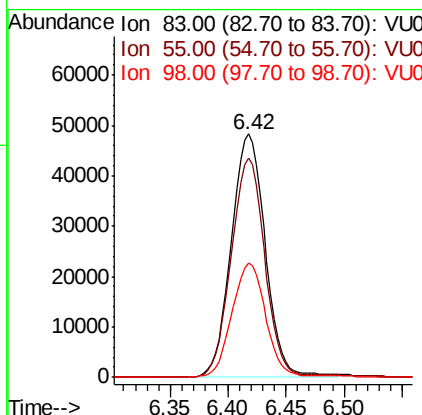
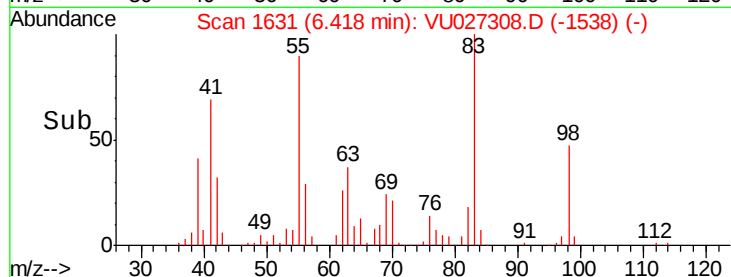
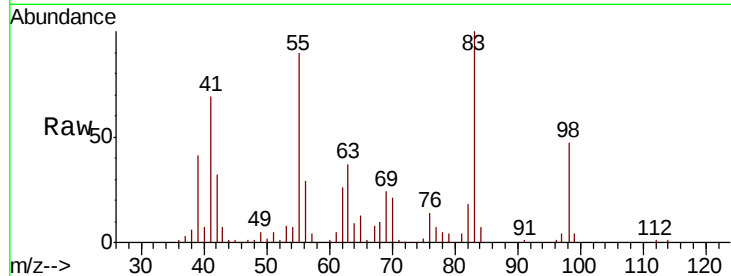
#39
Methvlcvclohexane
Concen: 48.246 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion	83.00	Resp	98554
Ion	Ratio	Lower	Upper
83	100		
55	90.3	69.9	104.9
98	47.1	37.5	56.3

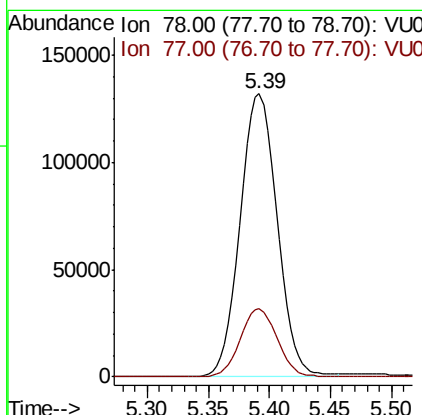
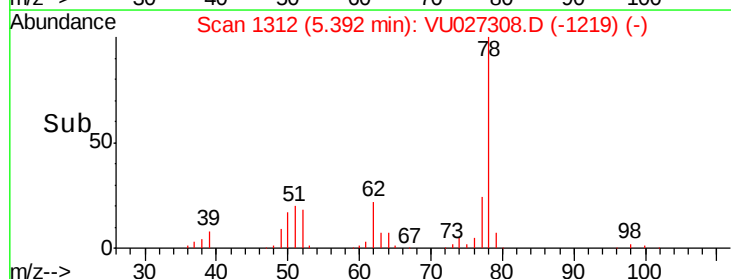
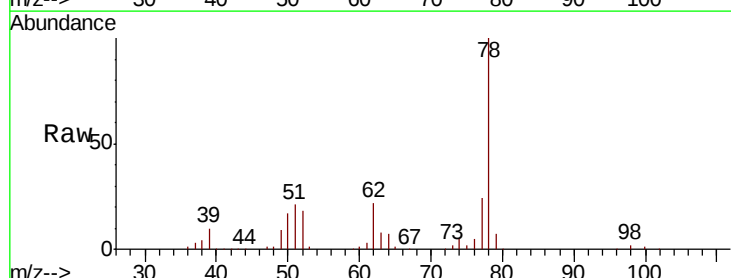
Manual Integrations
APPROVED

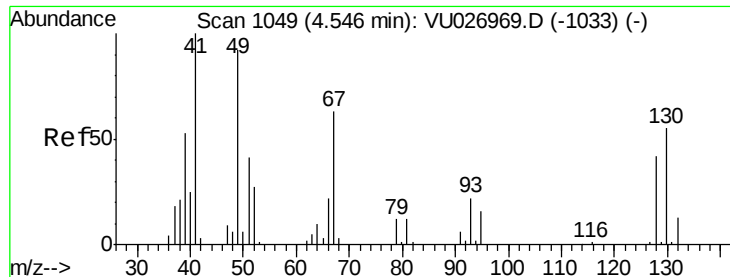
MMDadoda
10/2/2018 1:08:36 PM



#40
Benzene
Concen: 48.649 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	78.00	Resp	277997
Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.4	29.0





#41

Methacrylonitrile

Concen: 55.119 ug/l

RT: 4.54 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion: 41 Resp: 72843

Ion Ratio Lower Upper

41 100

39 51.6 42.9 64.3

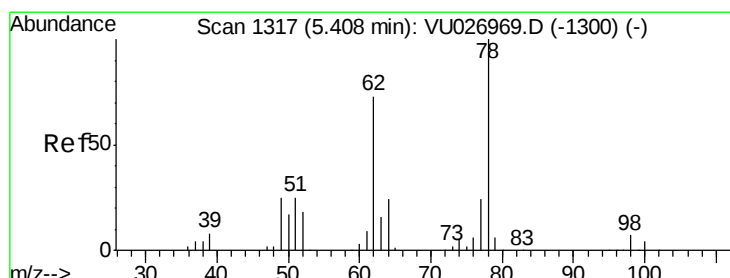
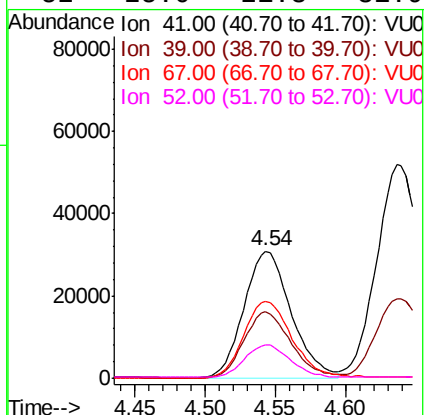
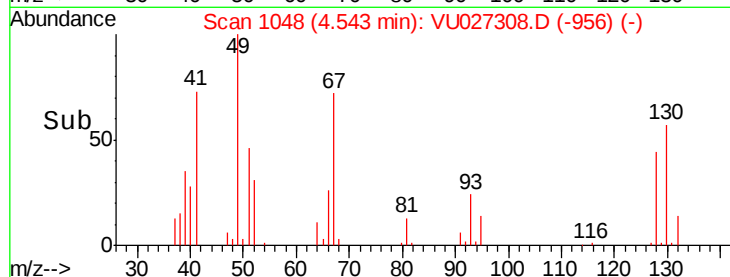
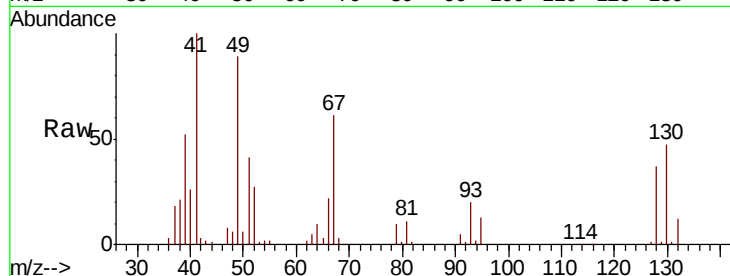
67 62.5 52.4 78.6

52 25.0 21.3 31.9

Manual Integrations
APPROVED

MMDadoda

10/2/2018 1:08:36 PM



#42

1,2-Dichloroethane

Concen: 49.003 ug/l

RT: 5.40 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VU027308.D

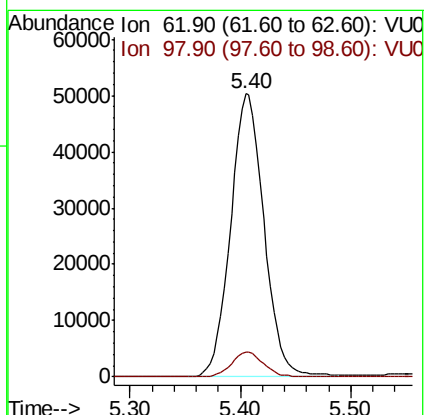
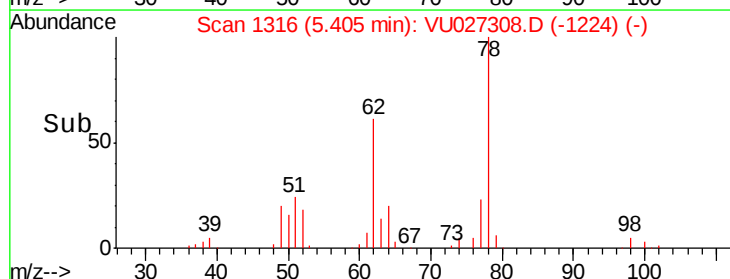
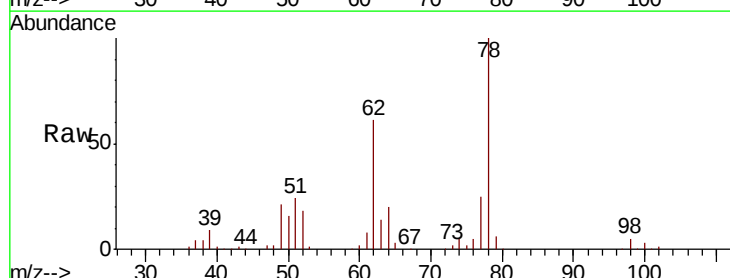
Acq: 29 Sep 2018 06:11

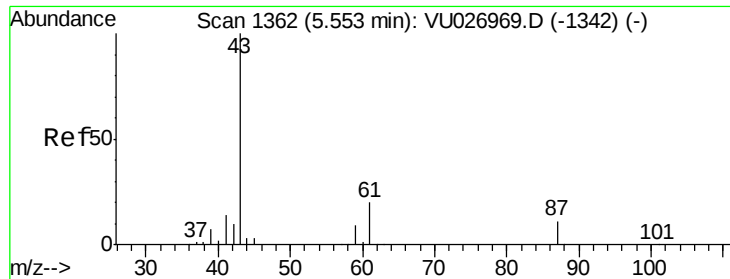
Tgt Ion: 62 Resp: 105796

Ion Ratio Lower Upper

62 100

98 8.4 0.0 17.0





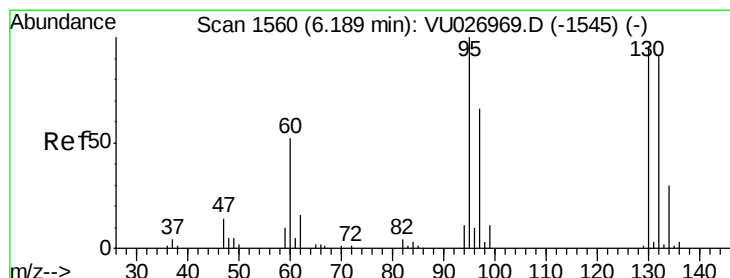
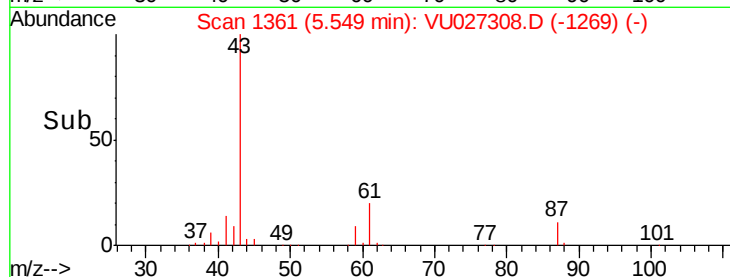
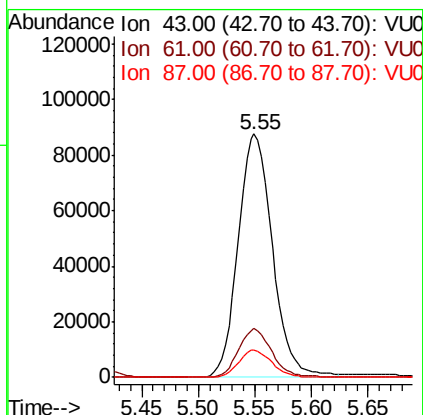
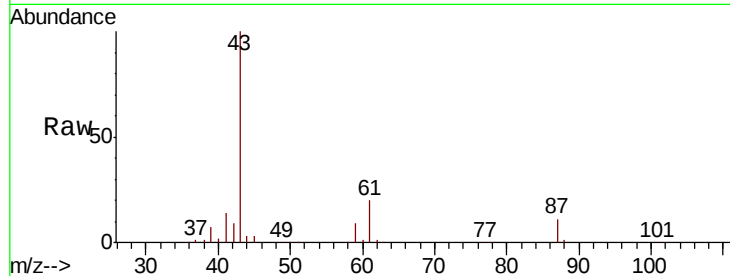
#43
Isopropyl Acetate
Concen: 49.995 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.7	23.5
87	10.9	9.0	13.4

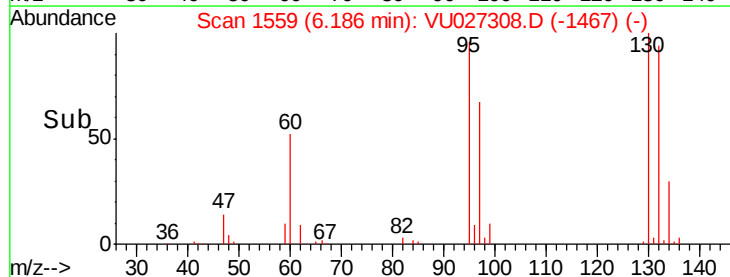
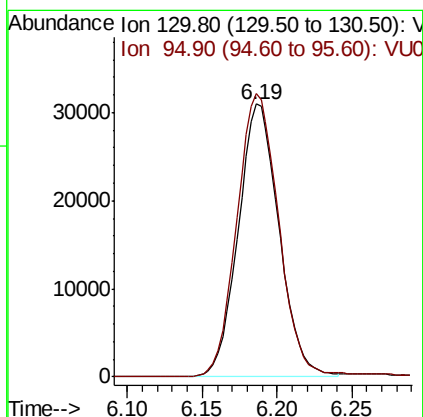
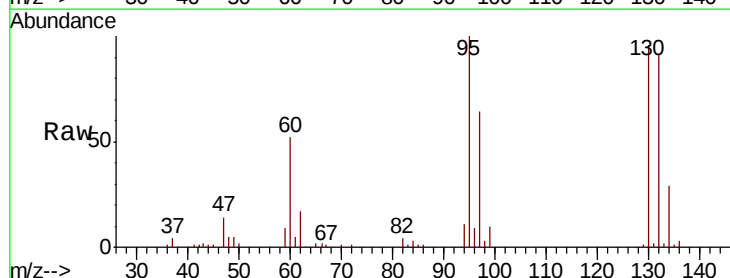
Manual Integrations
APPROVED

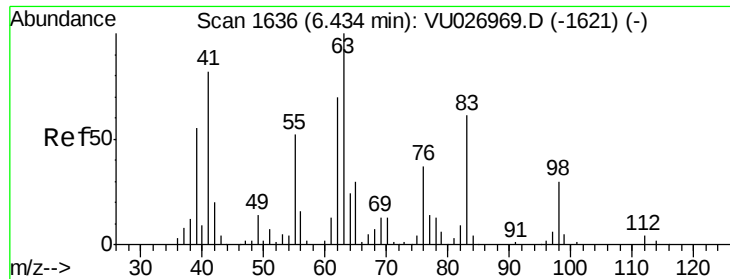
MMDadoda
10/2/2018 1:08:36 PM



#44
Trichloroethene
Concen: 48.394 ug/l
RT: 6.19 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	208.8





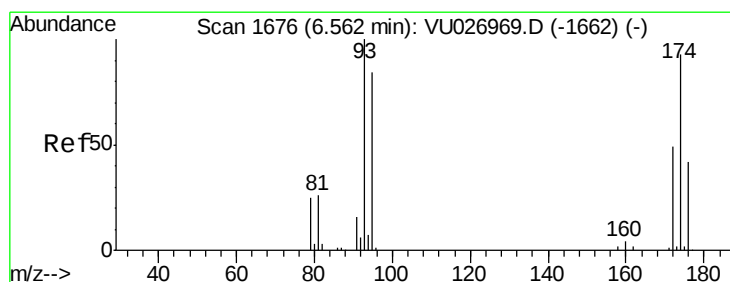
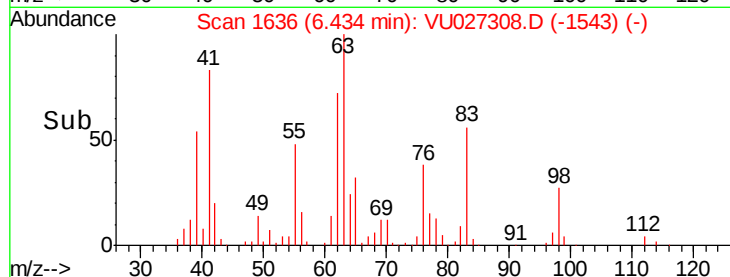
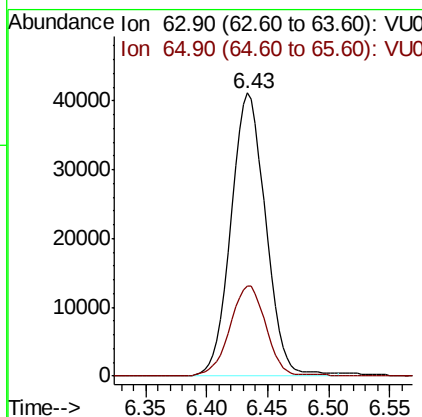
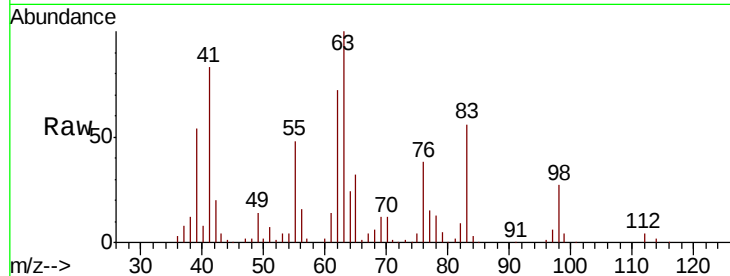
#45
 1,2-Dichloropropane
 Concen: 50.019 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.3	36.5

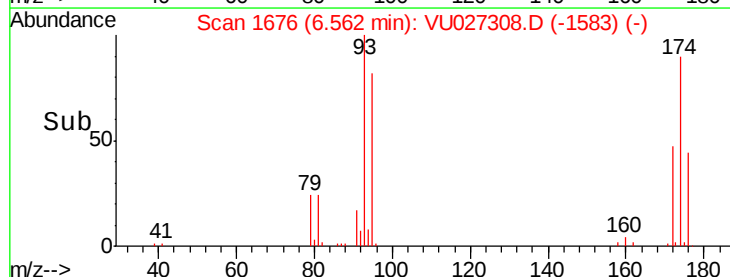
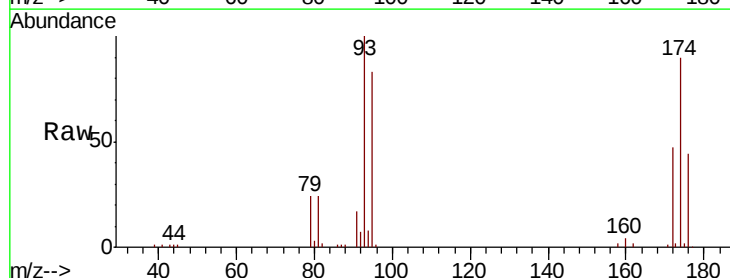
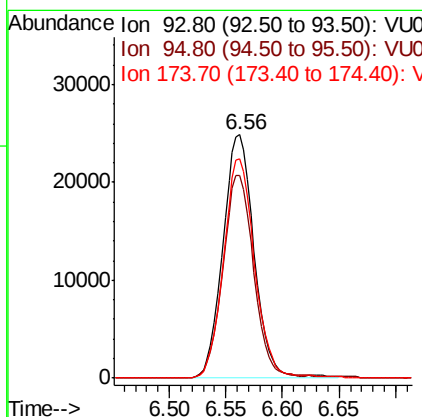
Manual Integrations
 APPROVED

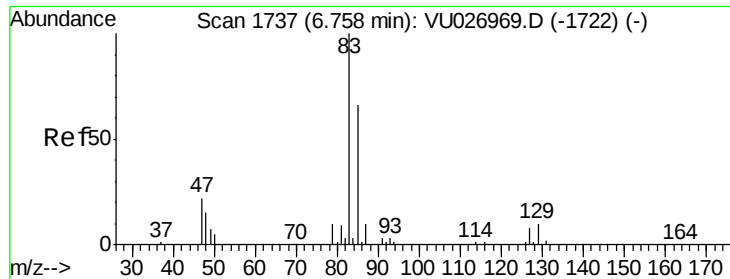
MMDadoda
 10/2/2018 1:08:36 PM



#46
 Dibromomethane
 Concen: 48.652 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.9	66.2	99.4
174	89.8	71.7	107.5





#47

Bromodichloromethane

Concen: 48.046 ug/l

RT: 6.76 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

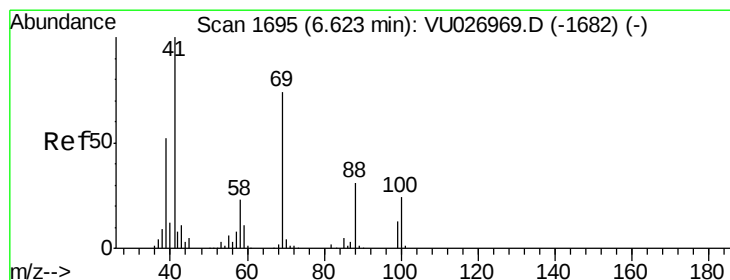
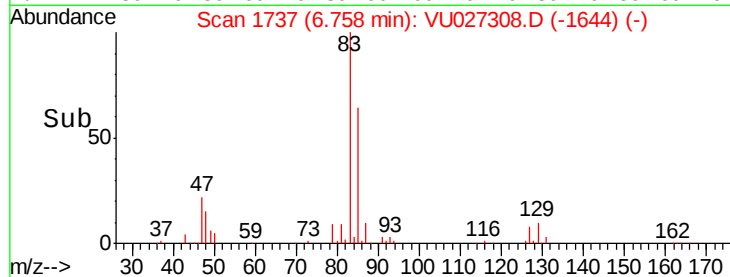
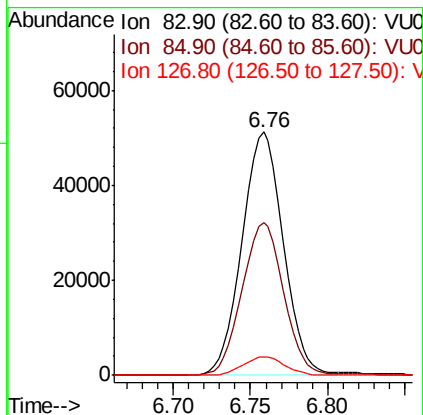
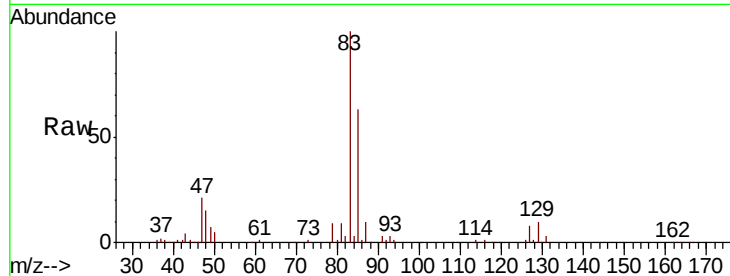
ClientSampleId :

SA-TW502-0913MSD

Tot Ion:	83	Resp:	95534
Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.5	78.7
127	7.8	6.3	9.5

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#48

Methyl methacrylate

Concen: 50.144 ug/l

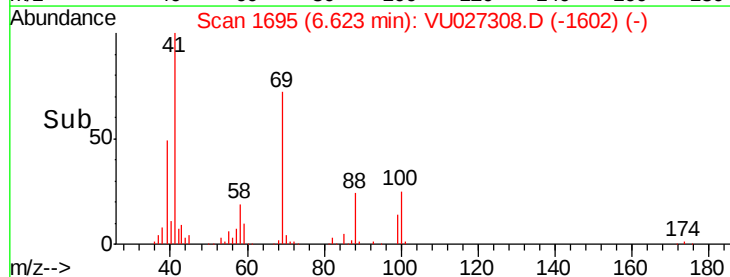
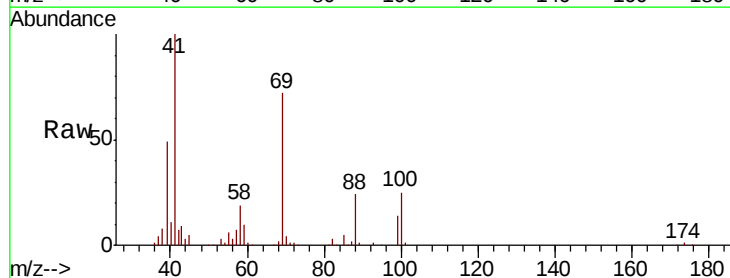
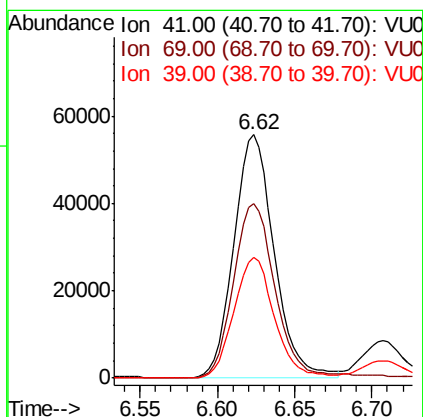
RT: 6.62 min Scan# 1695

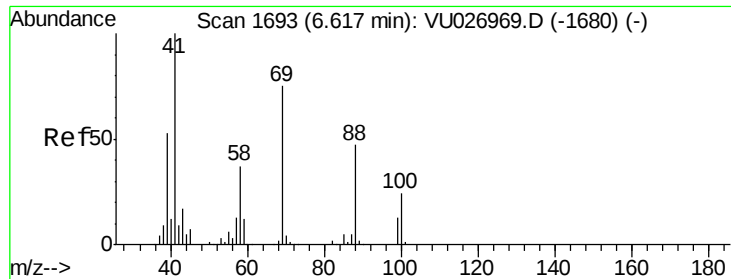
Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Tgt Ion:	41	Resp:	101290
Ion	Ratio	Lower	Upper
41	100		
69	74.9	60.6	90.8
39	49.6	42.8	64.2





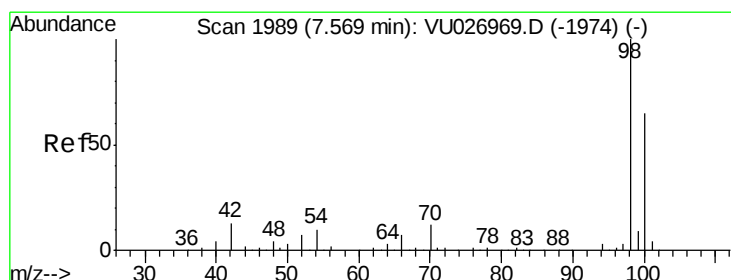
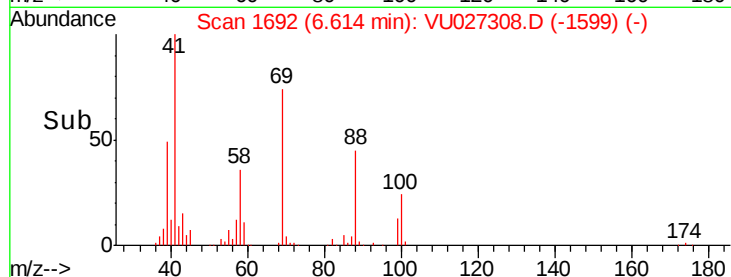
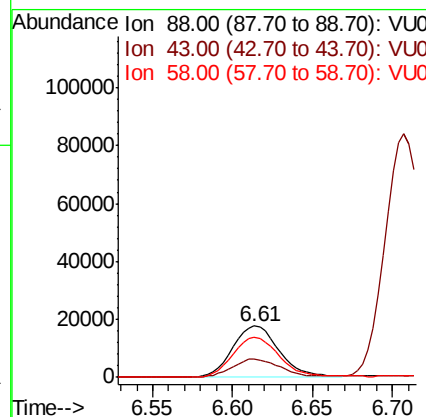
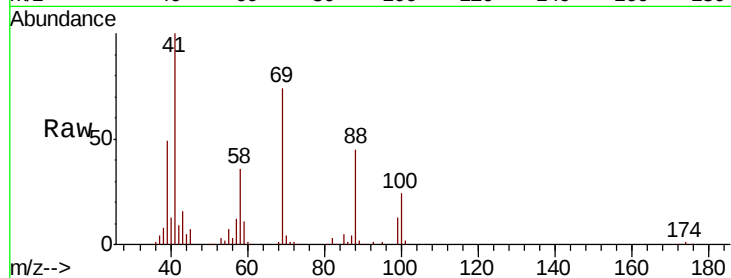
#49
1,4-Dioxane
Concen: 881.692 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.3	29.8	44.8
58	79.7	63.9	95.9

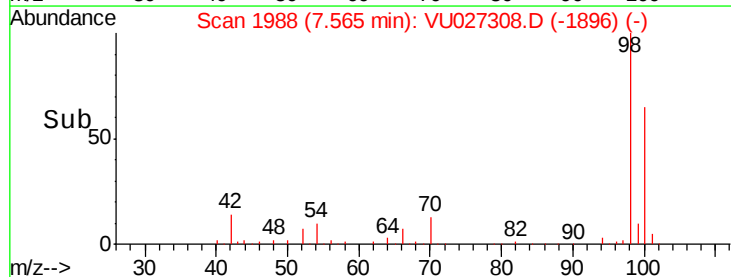
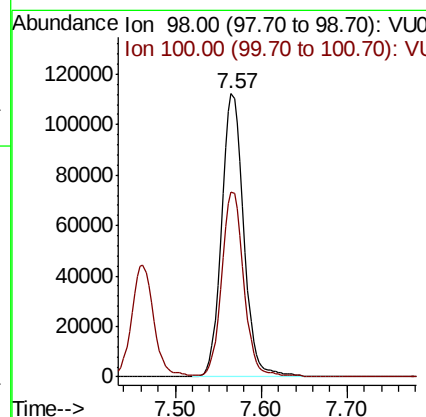
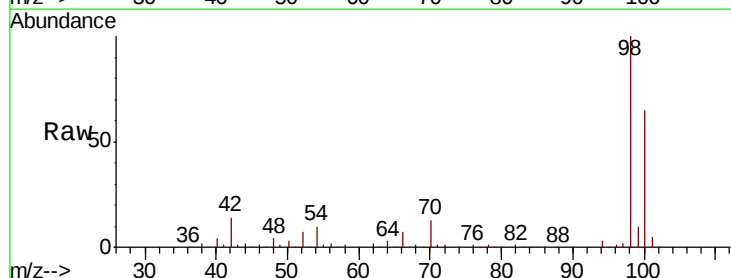
Manual Integrations
APPROVED

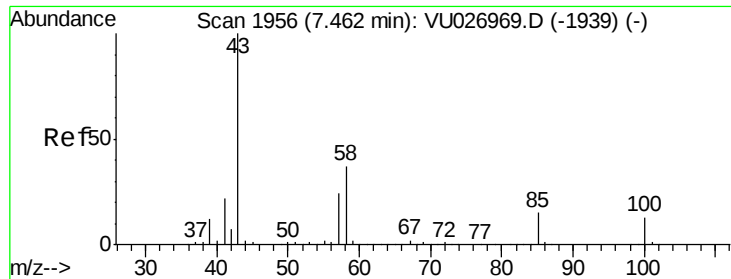
MMDadoda
10/2/2018 1:08:36 PM



#50
Toluene-d8
Concen: 43.420 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 262.431 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion: 43 Resp: 655004

Ion Ratio Lower Upper

43 100

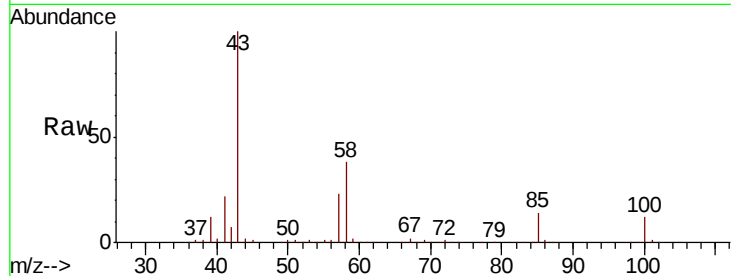
58 37.2 29.8 44.6

Manual Integrations

APPROVED

MMDadoda

10/2/2018 1:08:36 PM



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-1939) (-)

7.46

400000

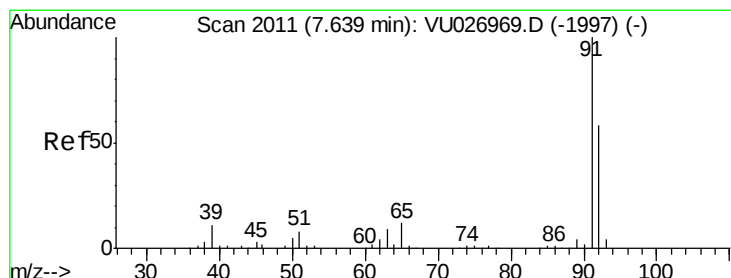
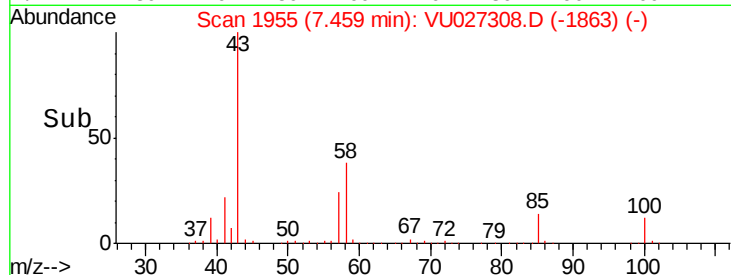
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 50.437 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027308.D

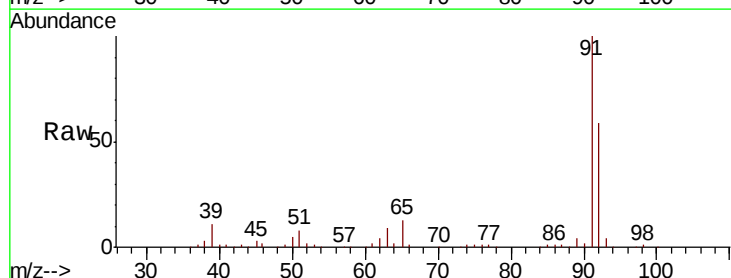
Acq: 29 Sep 2018 06:11

Tgt Ion: 92 Resp: 165204

Ion Ratio Lower Upper

92 100

91 171.6 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VU026969.D (-1997) (-)

Ion 91.00 (90.70 to 91.70): VU026969.D (-1997) (-)

7.64

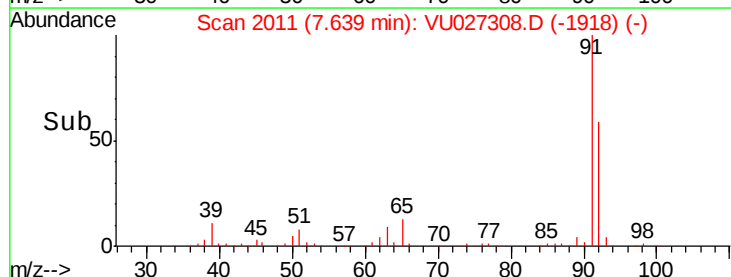
150000

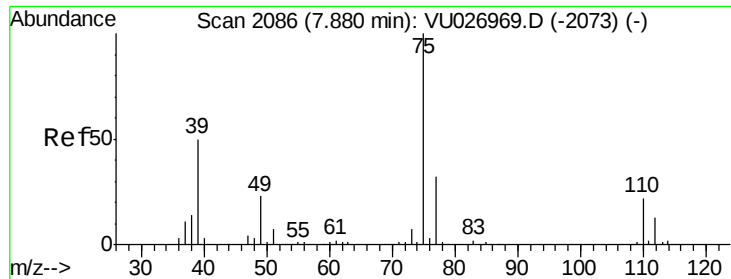
100000

50000

0

Time-->





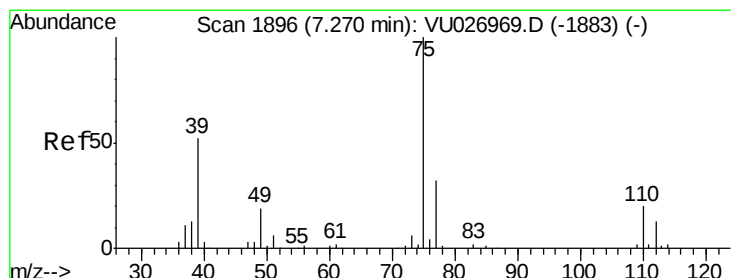
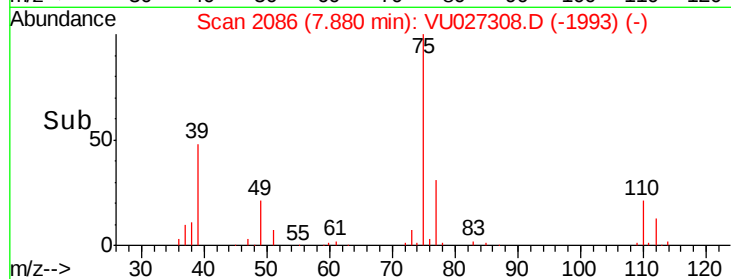
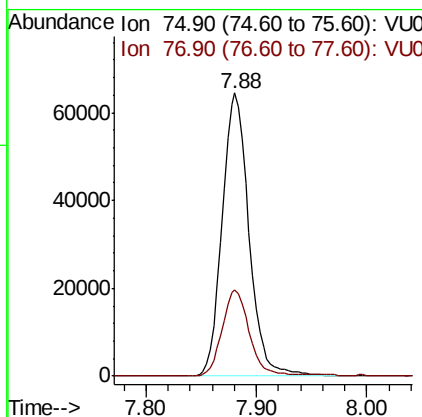
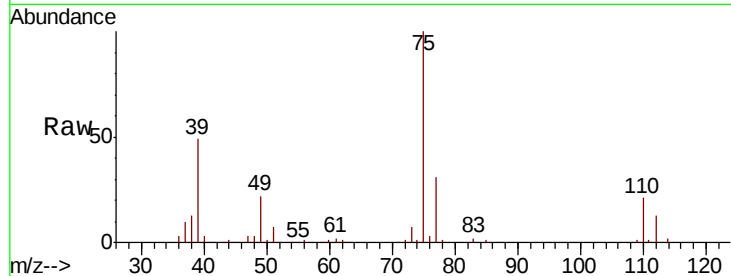
#53
t-1,3-Dichloropropene
Concen: 50.898 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion: 75 Resp: 108736
Ion Ratio Lower Upper
75 100
77 30.6 25.3 37.9

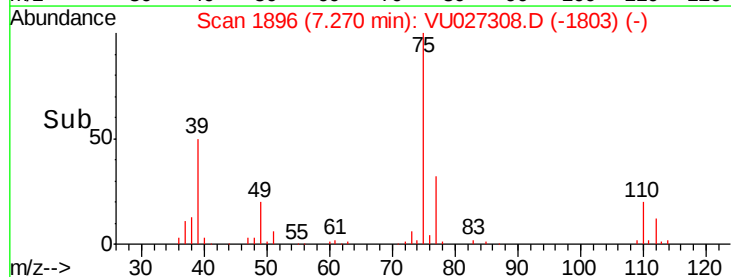
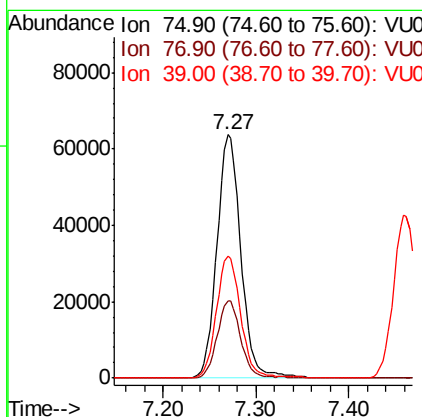
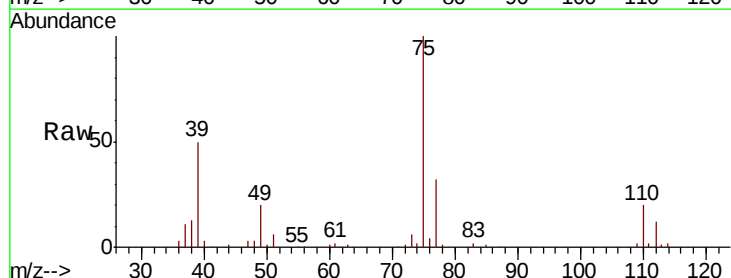
Manual Integrations
APPROVED

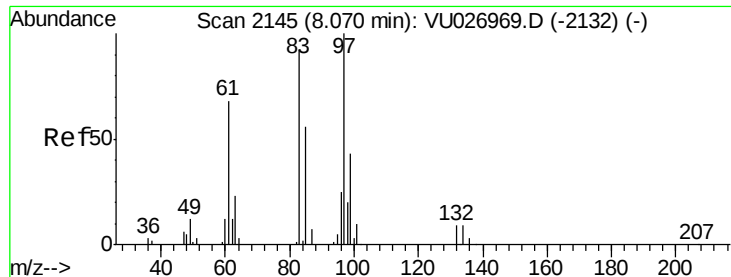
MMDadoda
10/2/2018 1:08:36 PM



#54
cis-1,3-Dichloropropene
Concen: 48.584 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion: 75 Resp: 114123
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.0
39 50.3 41.6 62.4





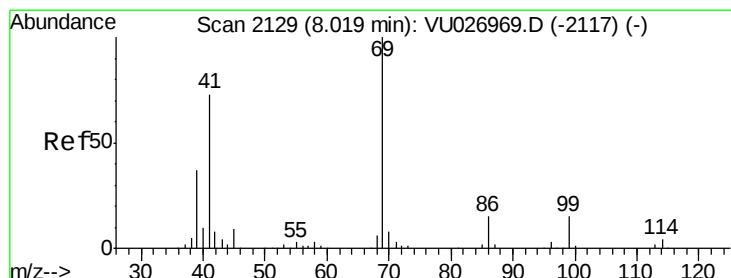
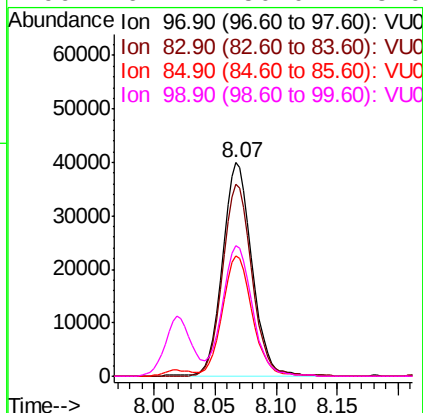
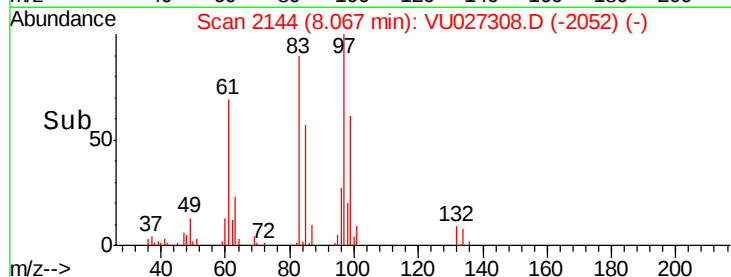
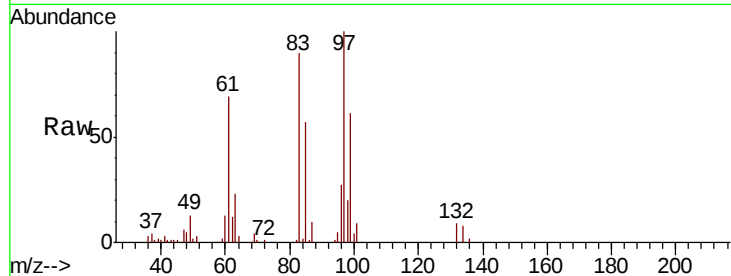
#55
 1,1,2-Trichloroethane
 Concen: 48.827 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion:	97	Resp:	67767
Ion	Ratio	Lower	Upper
97	100		
83	89.7	73.1	109.7
85	56.6	46.7	70.1
99	61.2	50.0	75.0

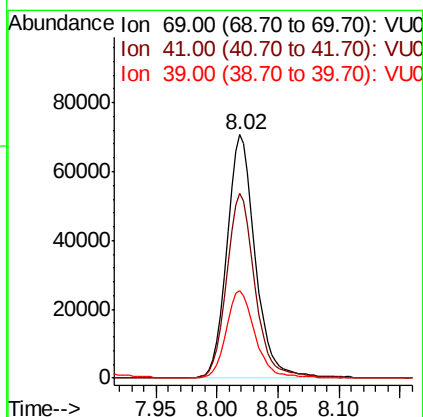
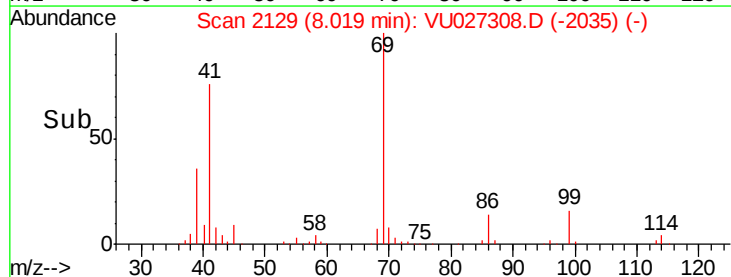
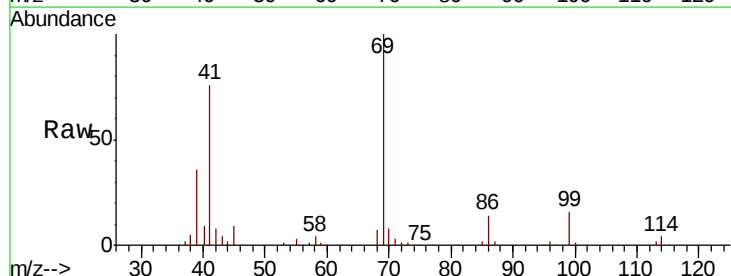
Manual Integrations
 APPROVED

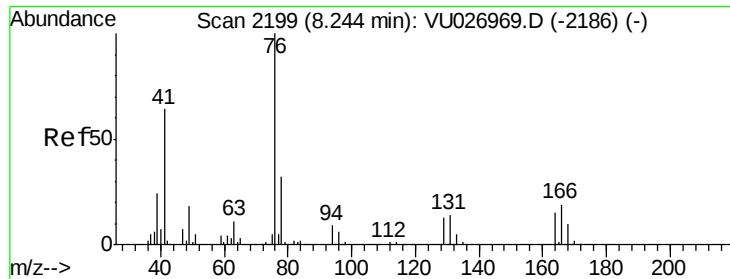
MMDadoda
 10/2/2018 1:08:36 PM



#56
 Ethyl methacrylate
 Concen: 47.930 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion:	69	Resp:	115193
Ion	Ratio	Lower	Upper
69	100		
41	76.5	59.0	88.4
39	36.5	30.2	45.4





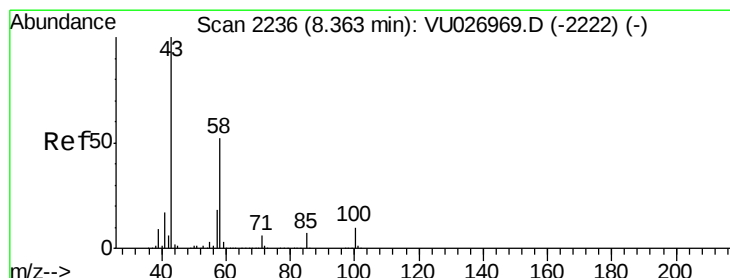
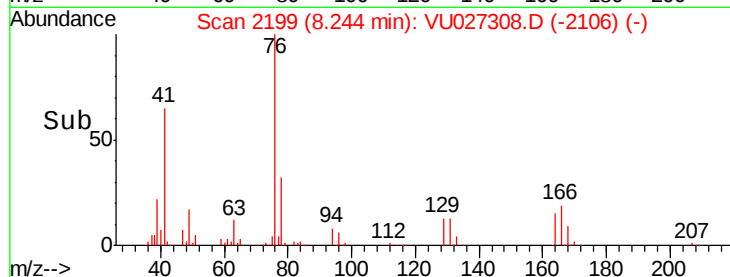
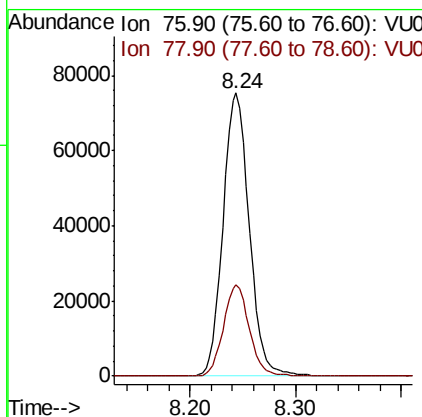
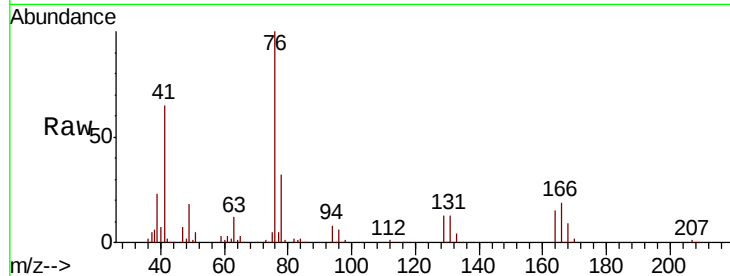
#57
 1,3-Dichloropropane
 Concen: 50.232 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.5	38.3

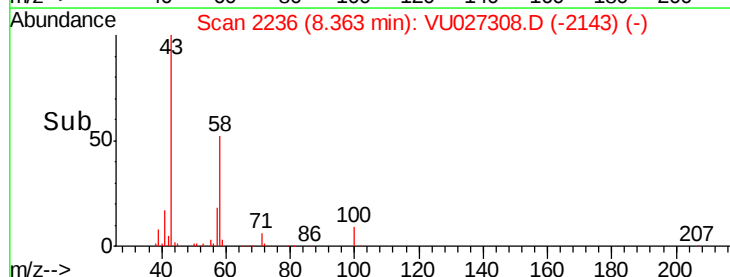
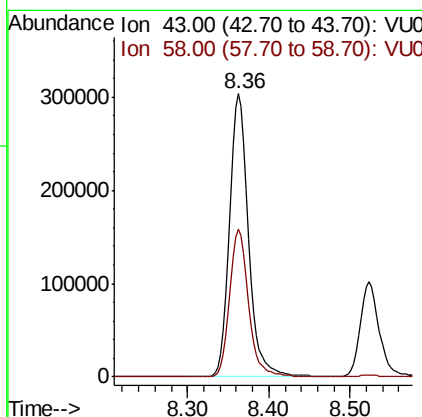
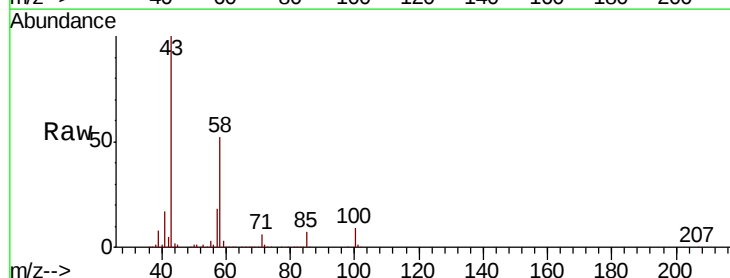
Manual Integrations
 APPROVED

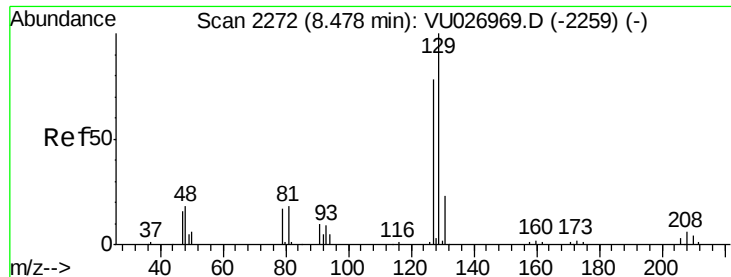
MMDadoda
 10/2/2018 1:08:36 PM



#59
 2-Hexanone
 Concen: 256.748 ug/l
 RT: 8.36 min Scan# 2236
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	52.1	26.1	78.2





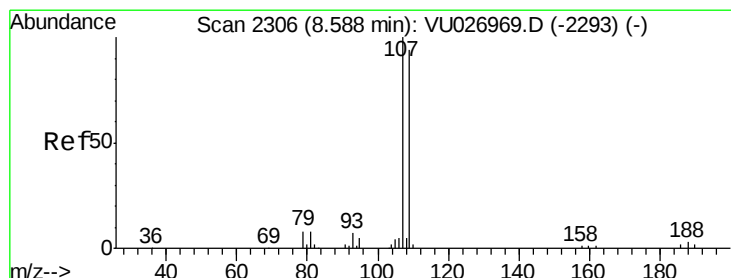
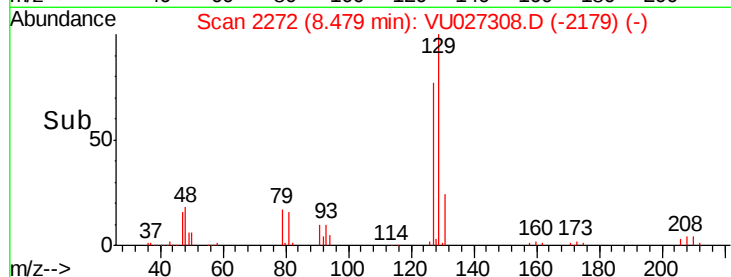
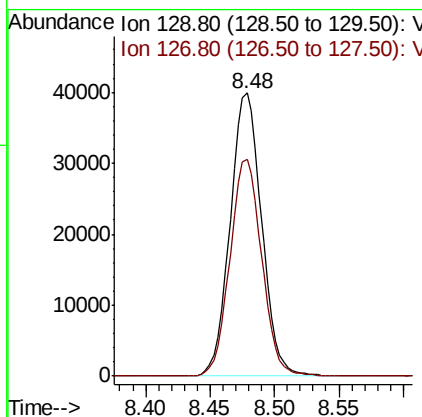
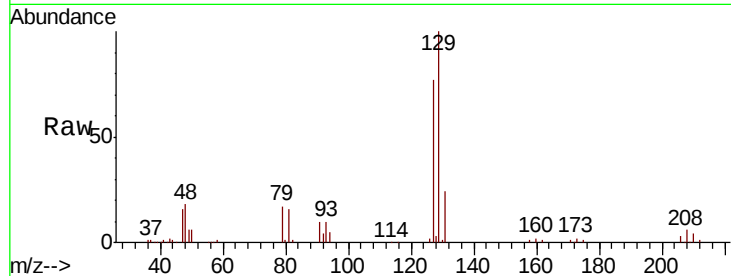
#60
 Dibromochloromethane
 Concen: 49.823 ug/l
 RT: 8.48 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.1	114.5

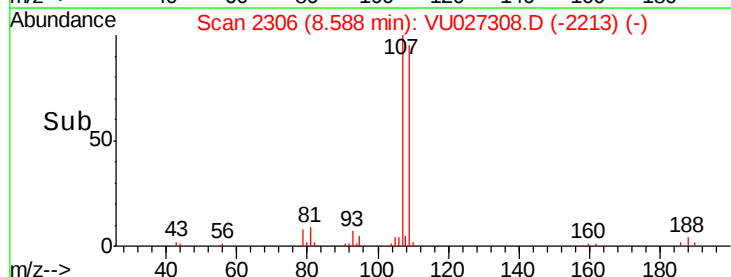
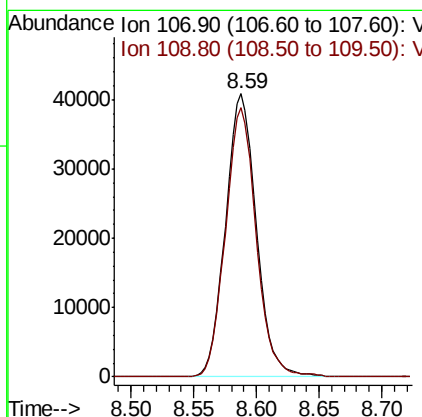
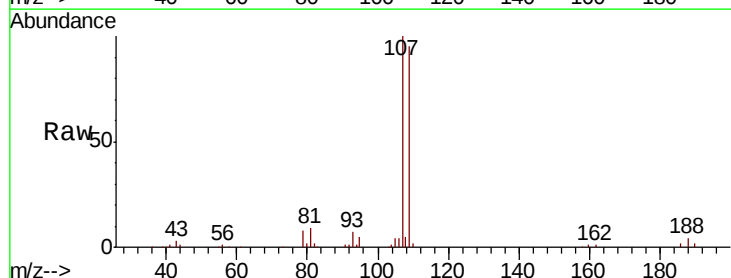
Manual Integrations
 APPROVED

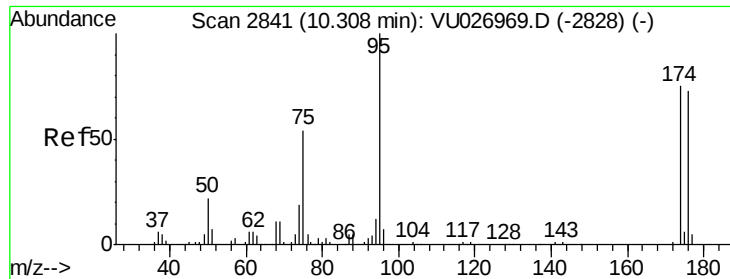
MMDadoda
 10/2/2018 1:08:36 PM



#61
 1,2-Dibromoethane
 Concen: 48.247 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.0	112.6





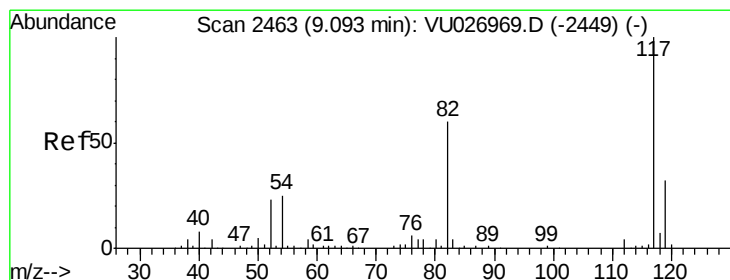
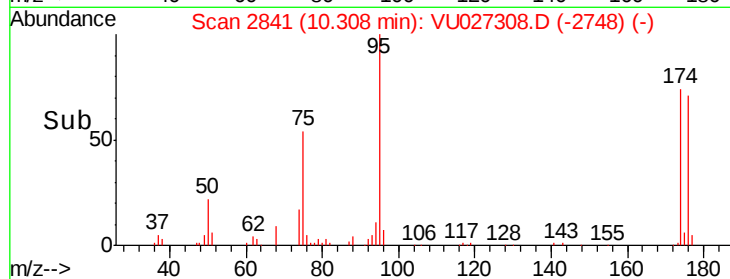
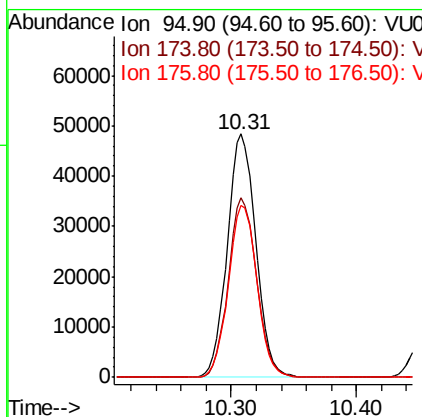
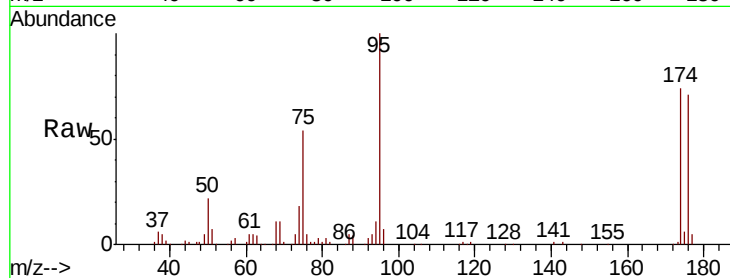
#62
4-Bromofluorobenzene
Concen: 47.973 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion	95	Resp	76588
Ion Ratio	100	Lower	Upper
95	100		
174	73.2	0.0	150.2
176	70.4	0.0	145.2

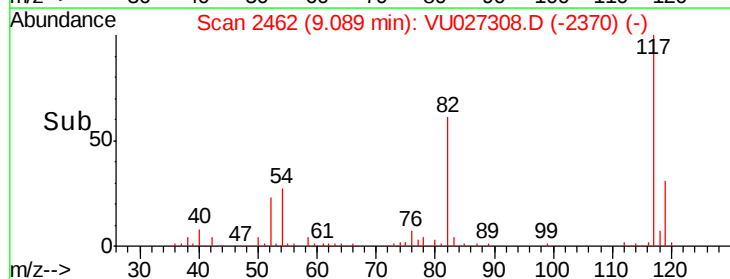
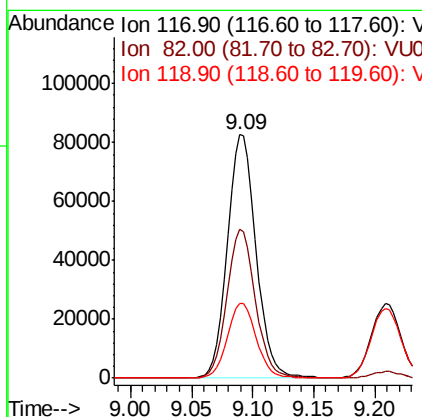
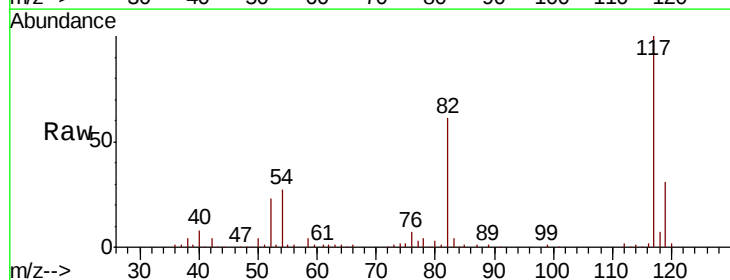
Manual Integrations
APPROVED

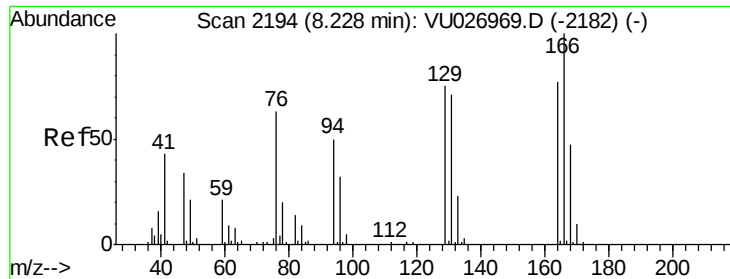
MMDadoda
10/2/2018 1:08:36 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	117	Resp	136189
Ion Ratio	100	Lower	Upper
117	100		
82	61.1	48.0	72.0
119	30.7	25.8	38.8





#64

Tetrachloroethene

Concen: 44.639 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027308.D

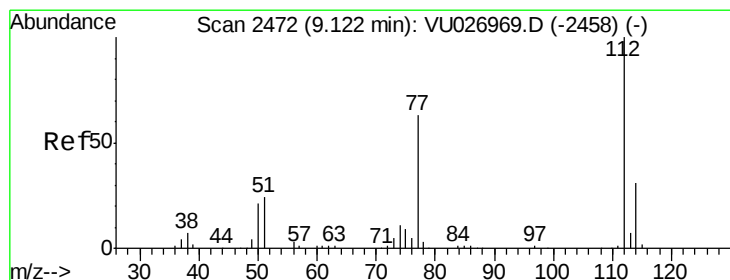
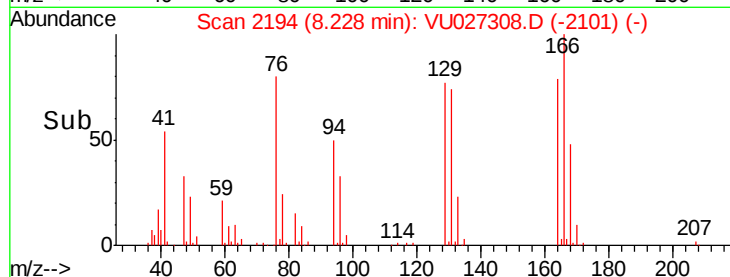
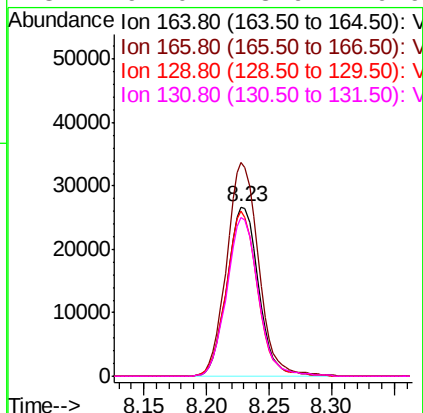
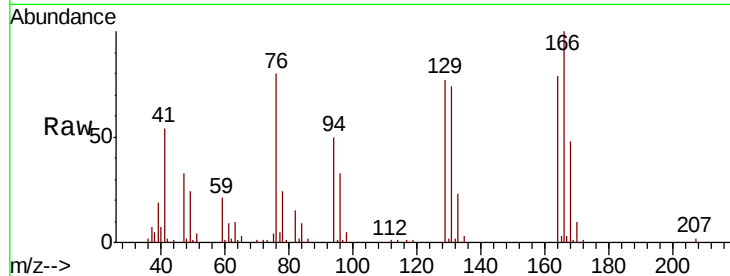
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion:	164	Resp:	46846
Ion	Ratio	Lower	Upper
164	100		
166	126.3	104.4	156.6
129	97.5	78.7	118.1
131	94.0	73.9	110.9

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#65

Chlorobenzene

Concen: 46.720 ug/l

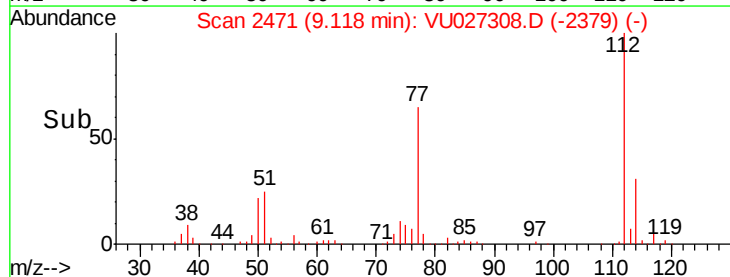
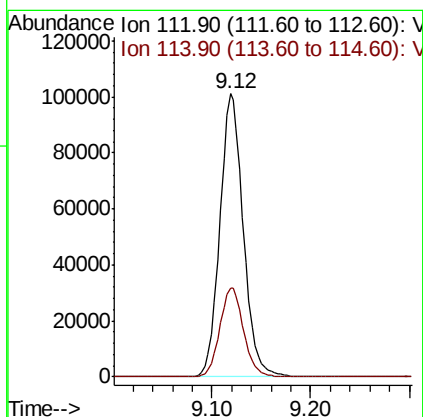
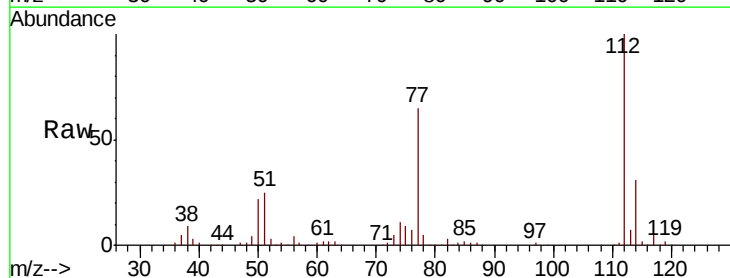
RT: 9.12 min Scan# 2471

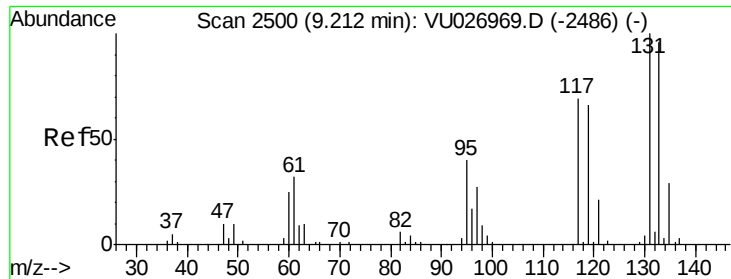
Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Tgt Ion:	112	Resp:	168709
Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.0	37.6





#66

1,1,1,2-Tetrachloroethane

Concen: 49.414 ug/l

RT: 9.21 min Scan# 2499

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

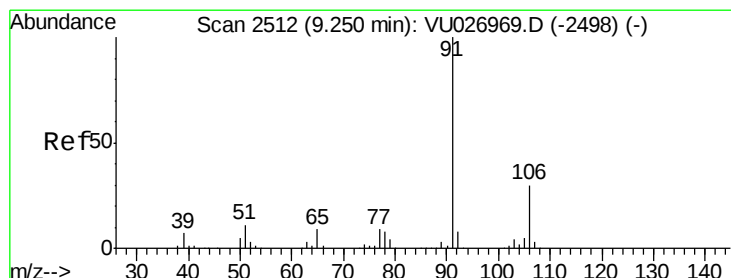
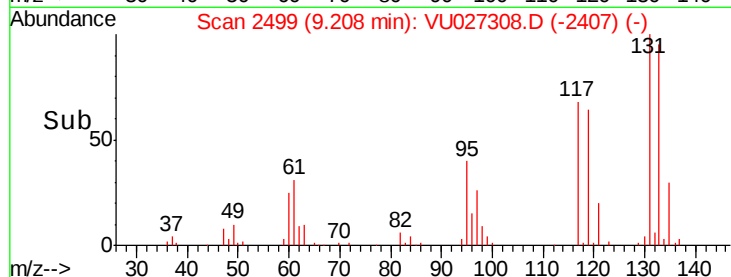
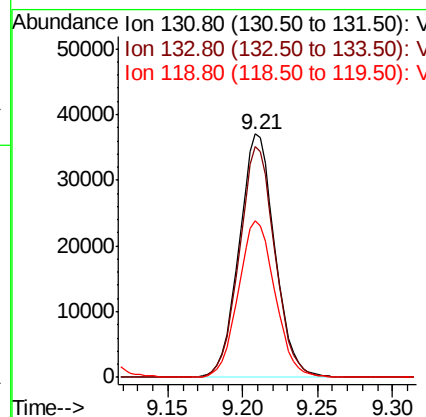
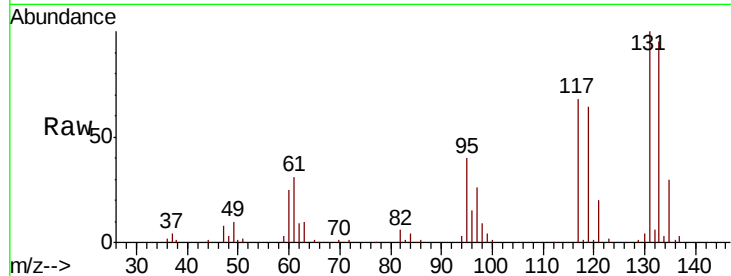
ClientSampleId :

SA-TW502-0913MSD

Tot Ion:	131	Resp:	61460
Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.0	144.2
119	66.0	33.4	100.1

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#67

Ethyl Benzene

Concen: 51.938 ug/l

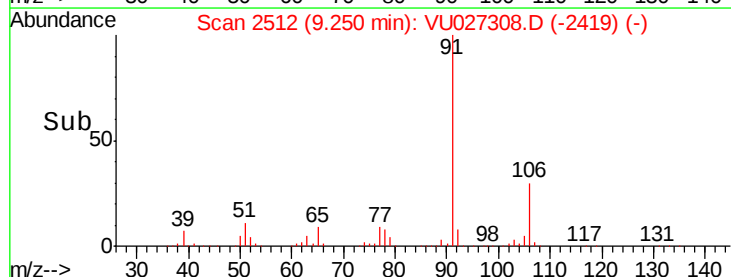
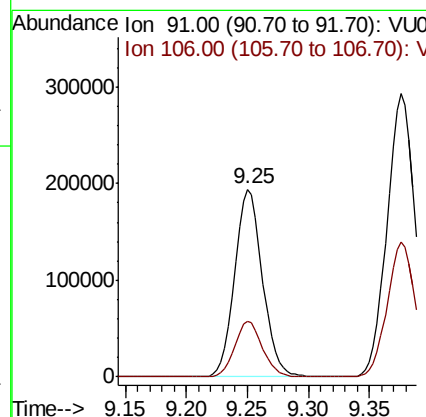
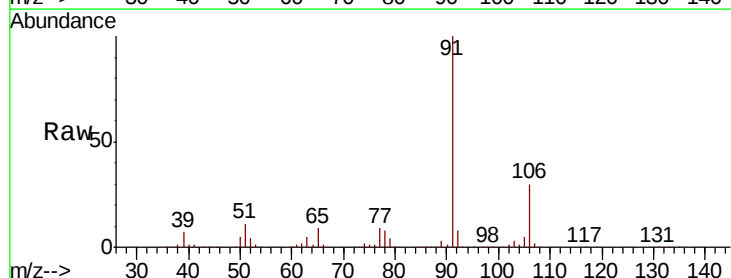
RT: 9.25 min Scan# 2512

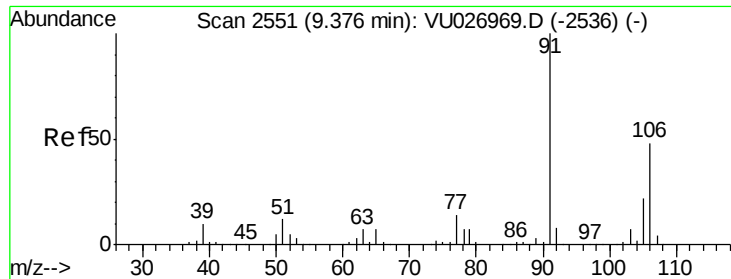
Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Tgt Ion:	91	Resp:	308409
Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.8	35.8





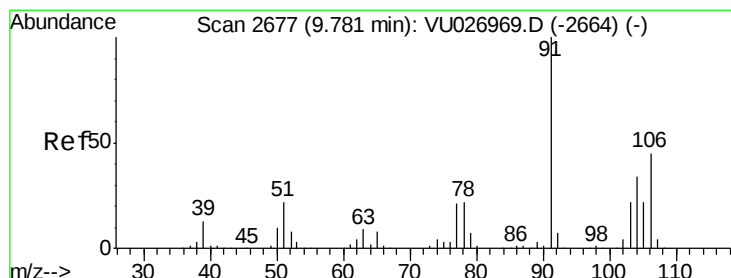
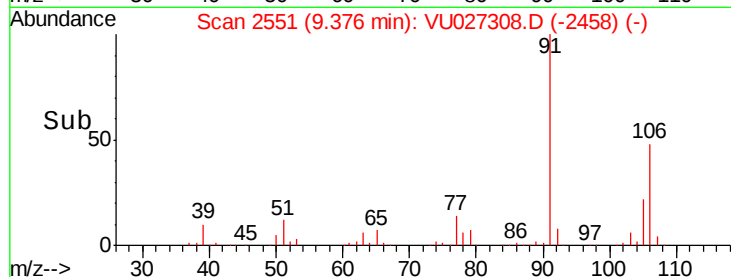
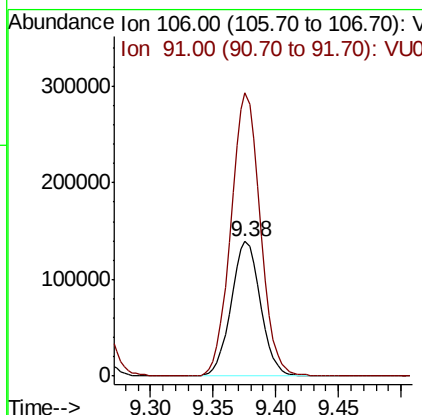
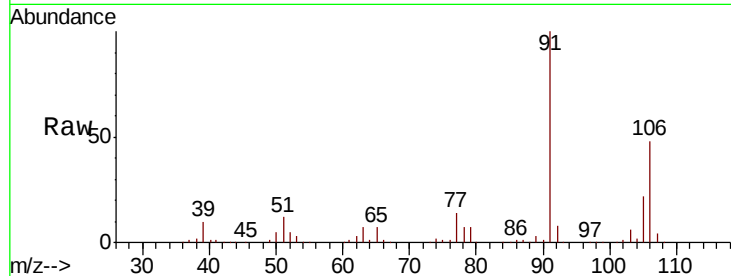
#68
m/p-Xylenes
Concen: 94.356 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion:106 Resp: 226700
Ion Ratio Lower Upper
106 100
91 209.9 166.5 249.7

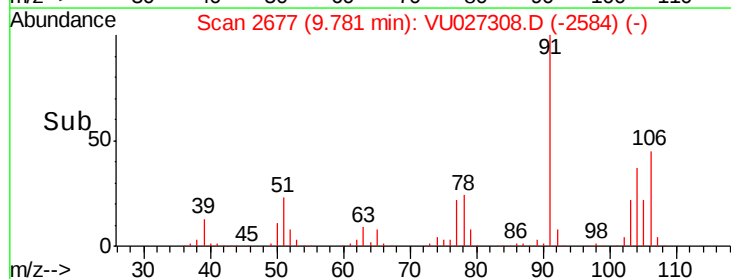
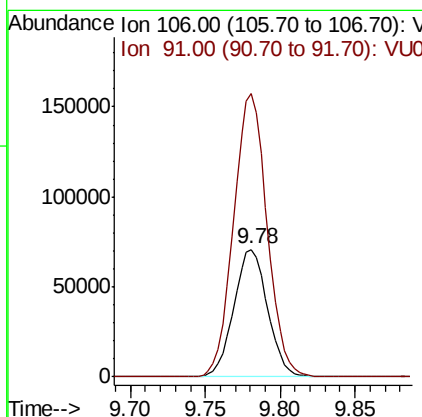
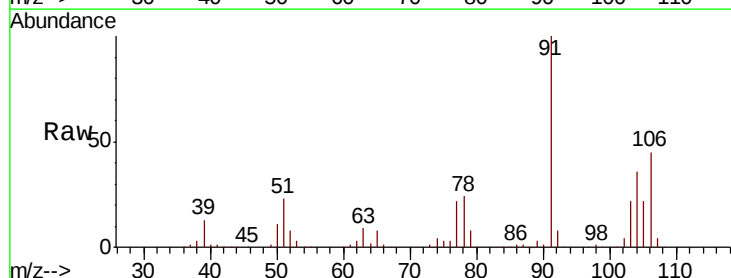
Manual Integrations
APPROVED

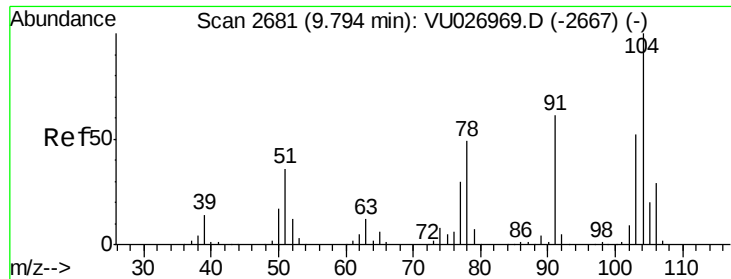
MMDadoda
10/2/2018 1:08:36 PM



#69
o-Xylene
Concen: 52.899 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion:106 Resp: 111295
Ion Ratio Lower Upper
106 100
91 220.5 110.2 330.6





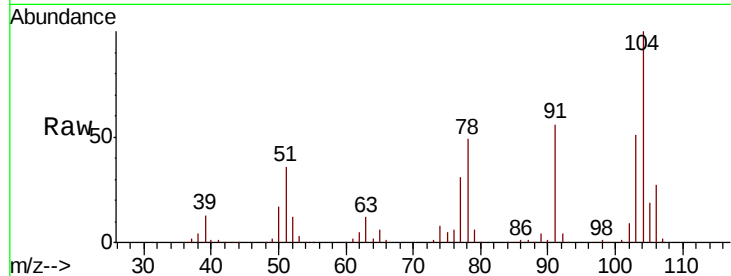
#70
Stvrene
Concen: 47.025 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion	Ratio	Resp	Lower	Upper
104	100	184291		
78	54.1	43.0	64.4	
103	54.6	44.1	66.1	

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM

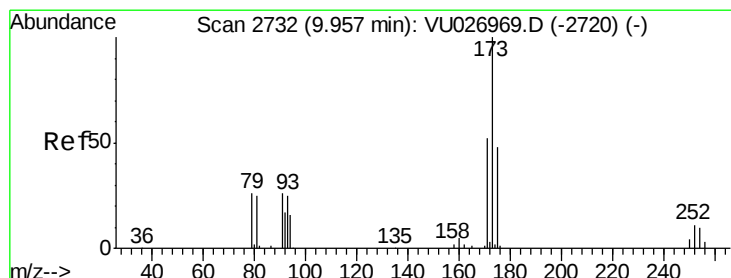
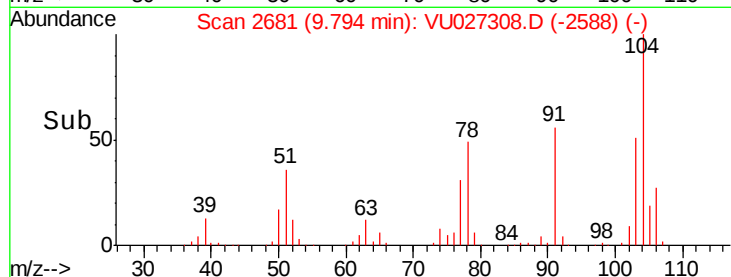
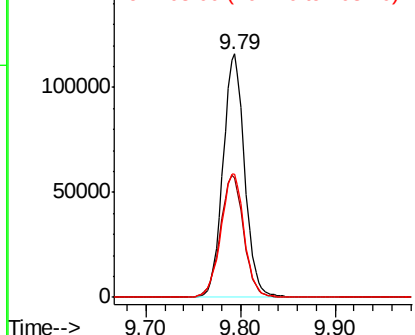


Abundance

Ion 104.00 (103.70 to 104.70): V

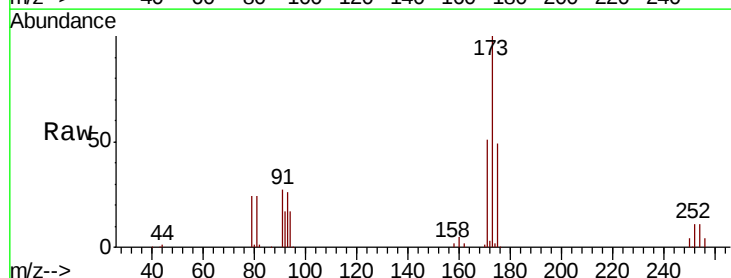
Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71
Bromoform
Concen: 50.943 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	48998		
175	48.7	23.9	71.8	
254	0.0	0.0	0.0	

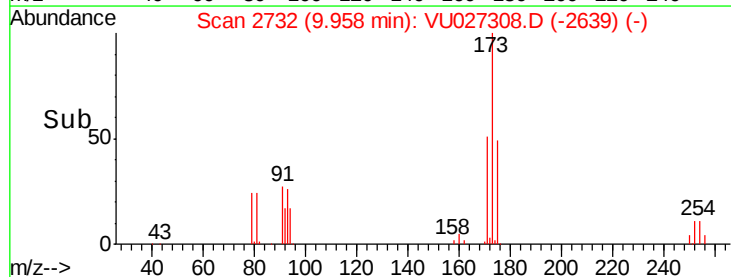
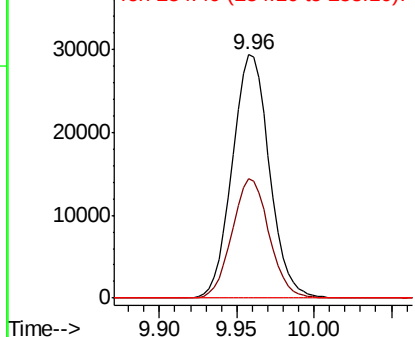


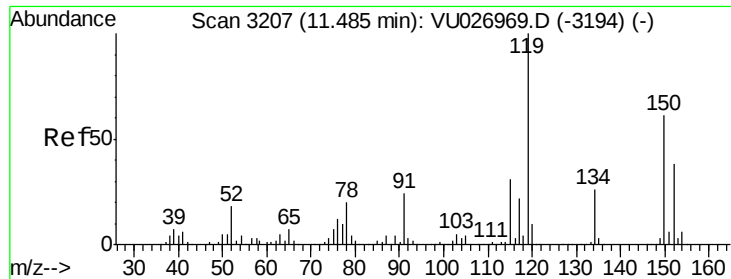
Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion:152 Resp: 73244

Ion Ratio Lower Upper

152 100

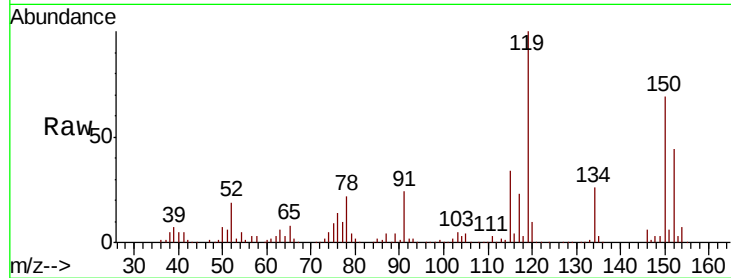
115 86.2 44.9 134.5

150 174.6 0.0 355.8

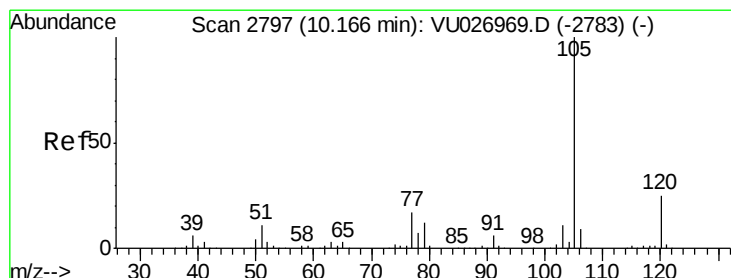
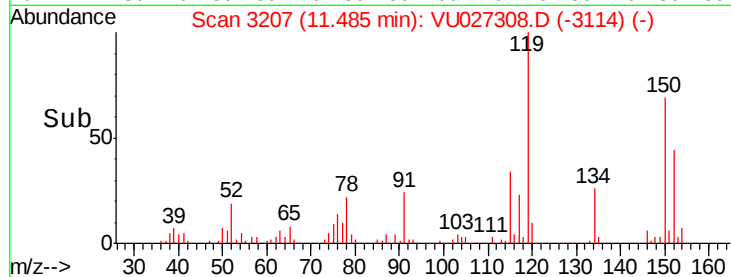
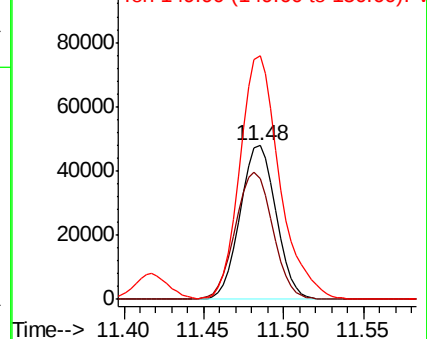
Manual Integrations
APPROVED

MMDadoda

10/2/2018 1:08:36 PM



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: 52.653 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027308.D

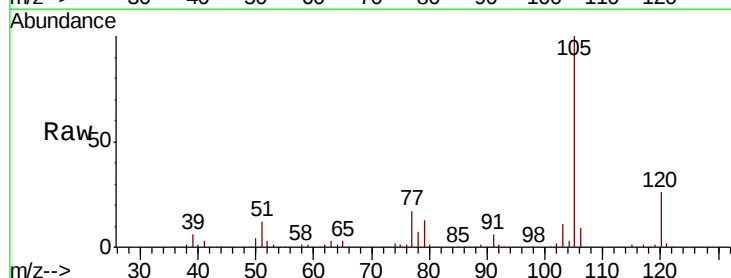
Acq: 29 Sep 2018 06:11

Tgt Ion:105 Resp: 293362

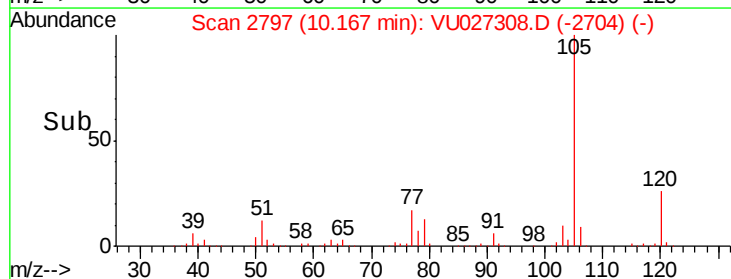
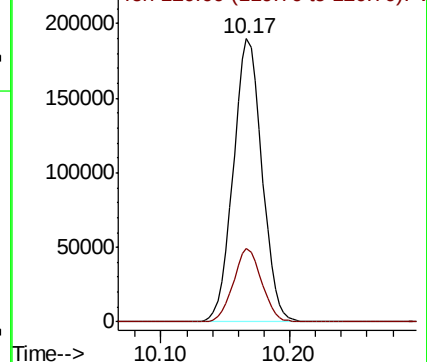
Ion Ratio Lower Upper

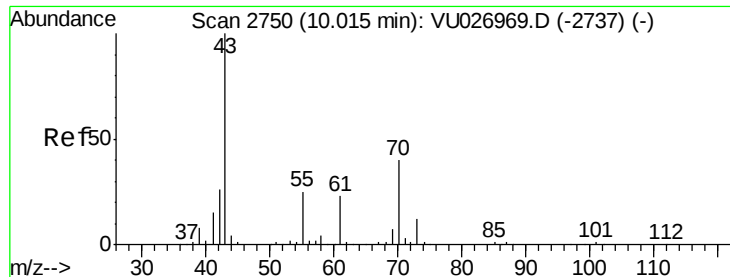
105 100

120 25.6 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 49.368 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

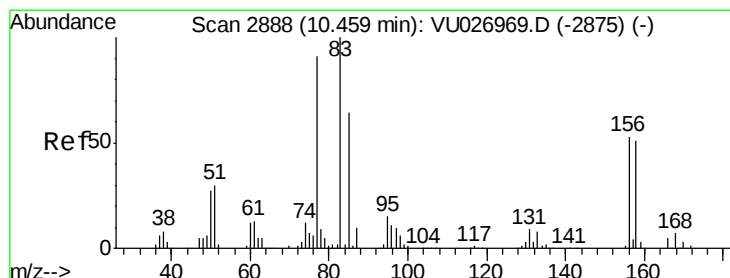
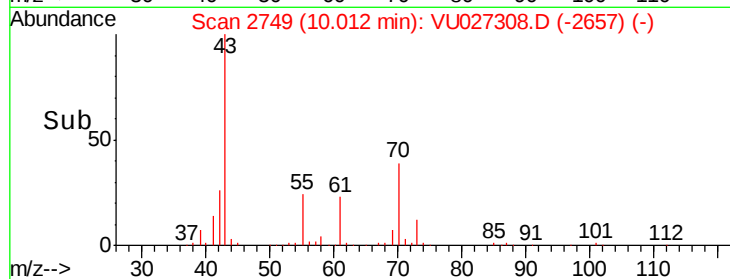
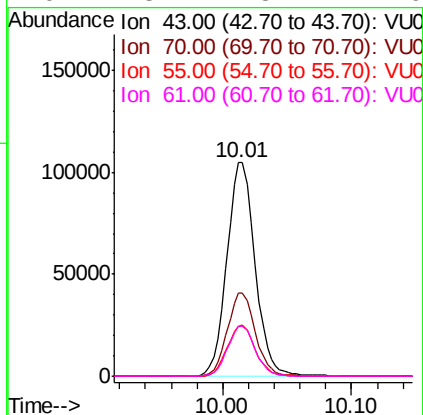
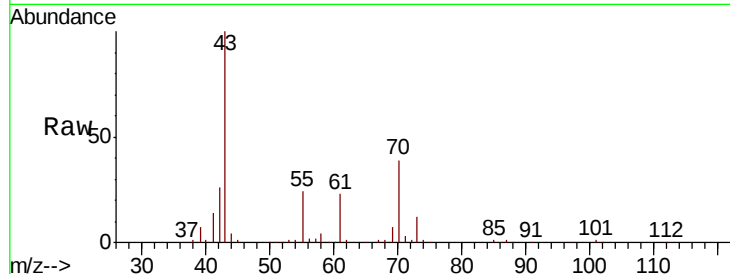
ClientSampleId :

SA-TW502-0913MSD

Tot Ion:	43	Resp:	159215
Ion	Ratio	Lower	Upper
43	100		
70	38.8	31.8	47.8
55	24.2	19.9	29.9
61	23.2	18.4	27.6

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#75

1,1,2,2-Tetrachloroethane

Concen: 45.712 ug/l

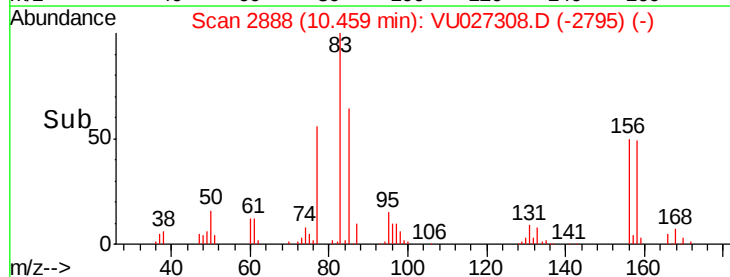
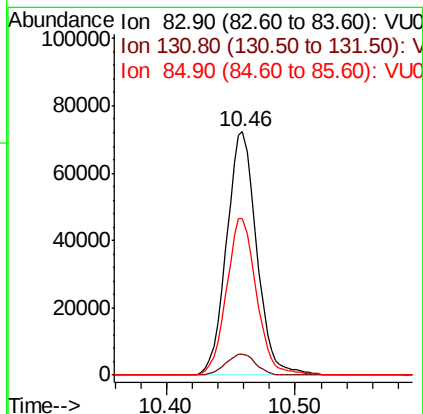
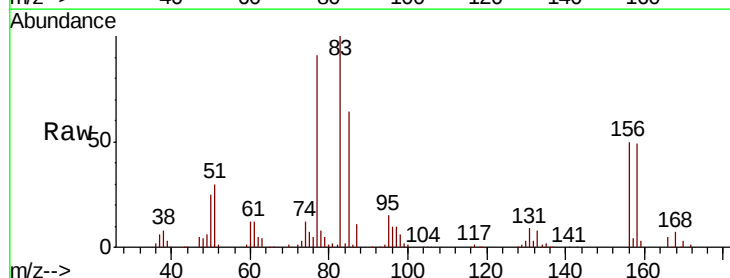
RT: 10.46 min Scan# 2888

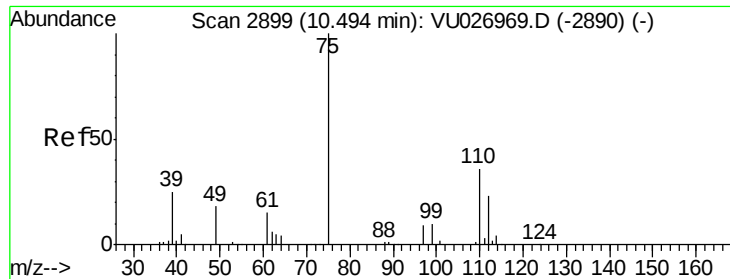
Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Tgt Ion:	83	Resp:	117100
Ion	Ratio	Lower	Upper
83	100		
131	8.6	4.3	12.8
85	64.4	31.9	95.7





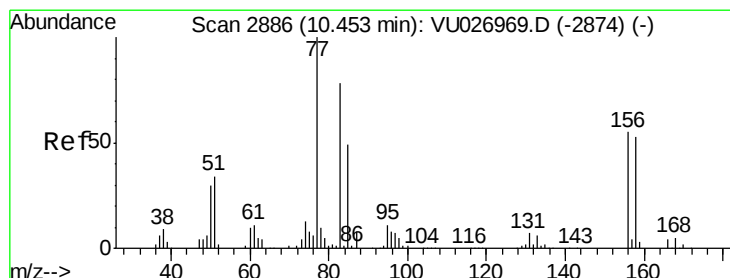
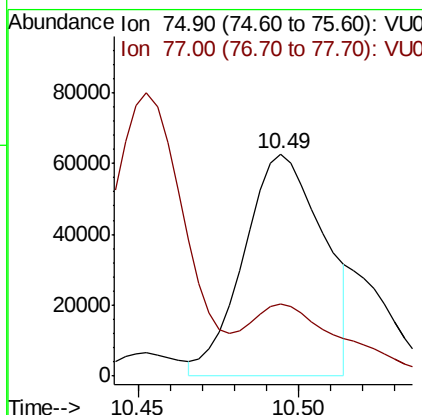
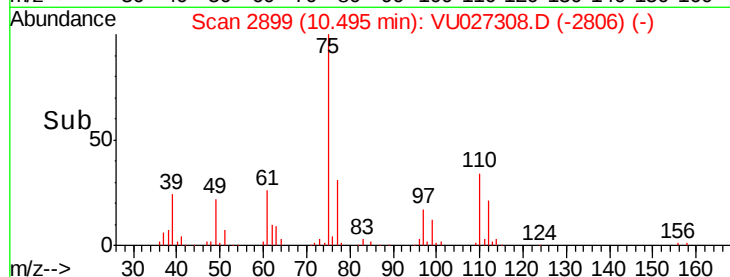
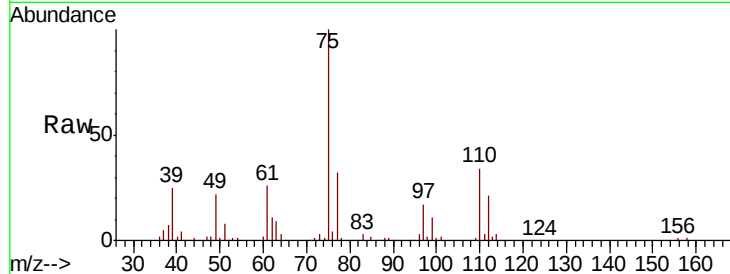
#76
1,2,3-Trichloropropane
Concen: 48.457 ug/l m
RT: 10.49 min Scan# 2899
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion: 75 Resp: 107823
Ion Ratio Lower Upper
75 100
77 39.5 20.9 62.8

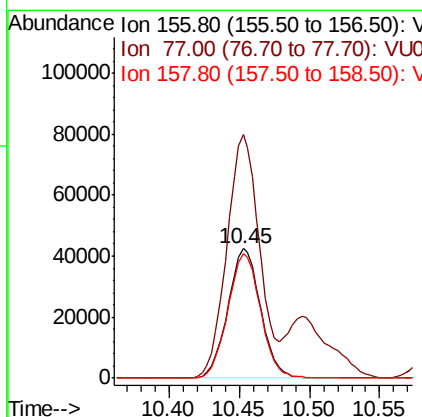
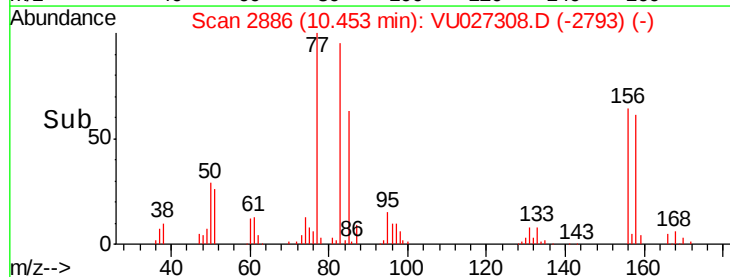
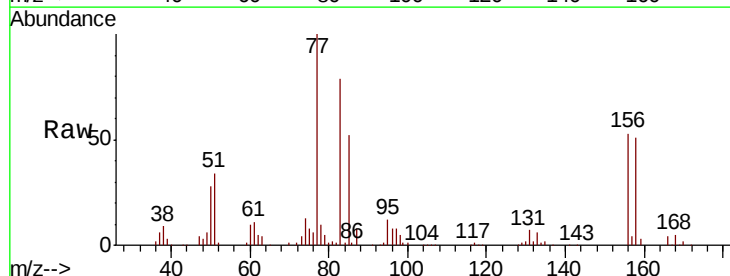
Manual Integrations
APPROVED

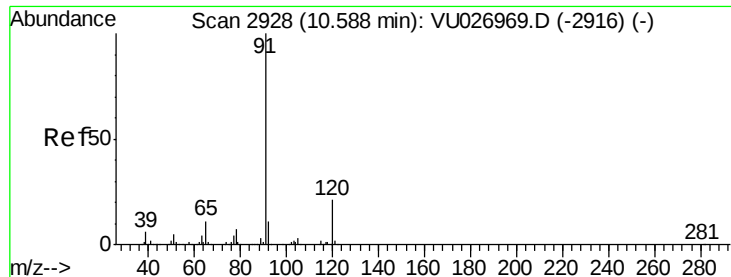
MMDadoda
10/2/2018 1:08:36 PM



#77
Bromobenzene
Concen: 50.436 ug/l
RT: 10.45 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion: 156 Resp: 68670
Ion Ratio Lower Upper
156 100
77 188.5 92.3 276.9
158 96.2 48.1 144.3





#78

n-propylbenzene

Concen: 53.130 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion: 91 Resp: 350257

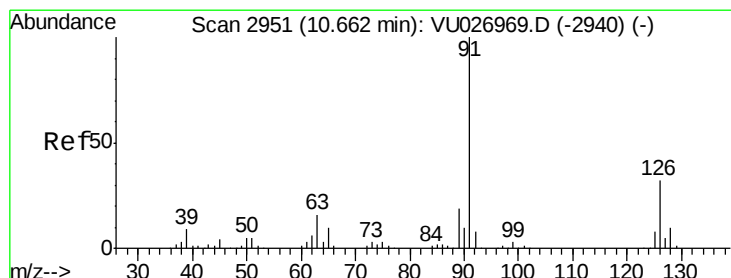
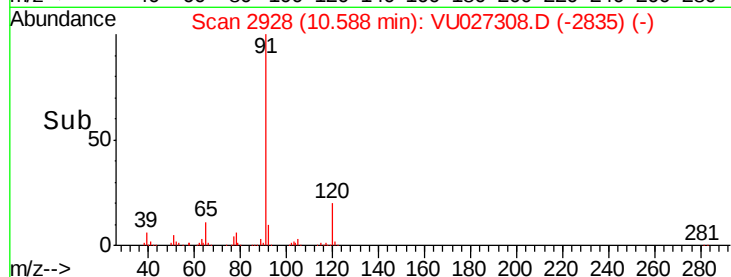
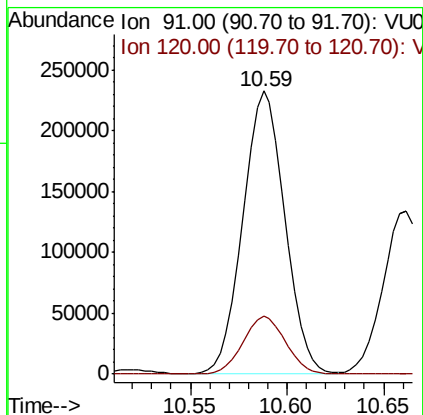
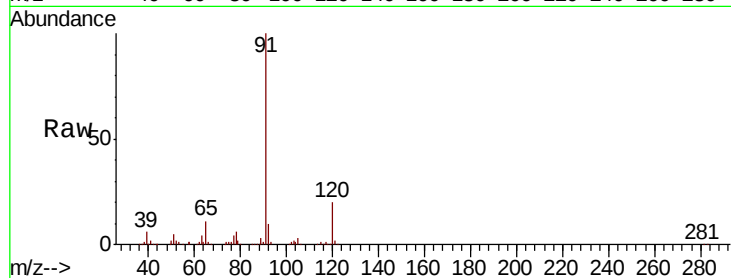
Ion Ratio Lower Upper

91 100

120 20.7 10.6 31.8

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#79

2-Chlorotoluene

Concen: 50.555 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU027308.D

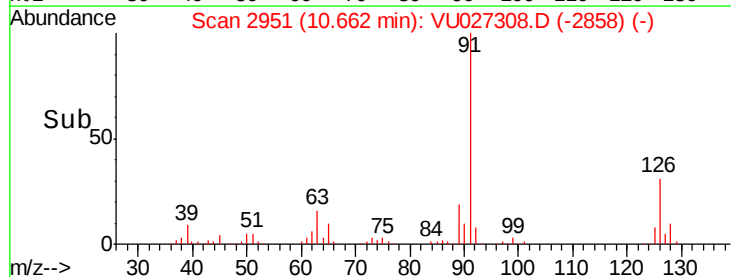
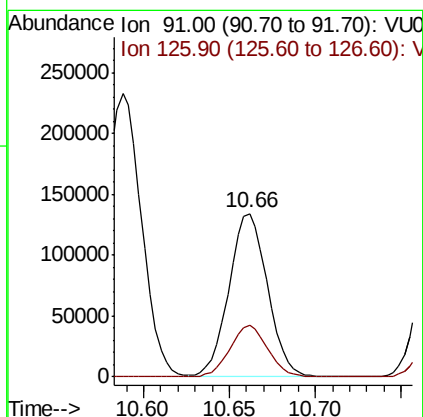
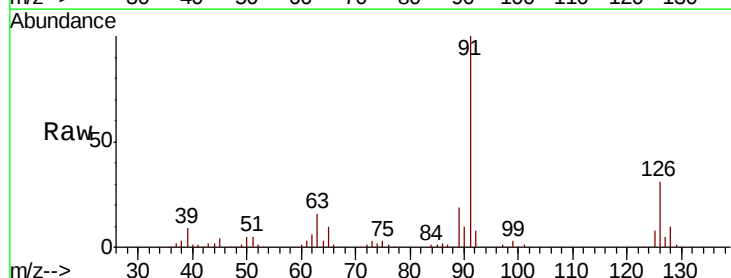
Acq: 29 Sep 2018 06:11

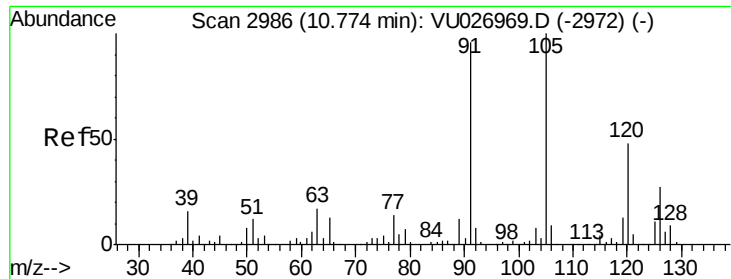
Tgt Ion: 91 Resp: 209343

Ion Ratio Lower Upper

91 100

126 31.1 15.8 47.3





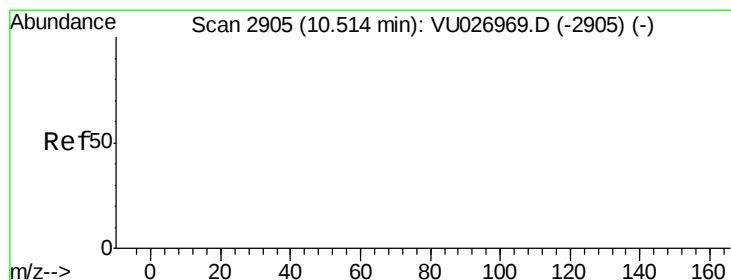
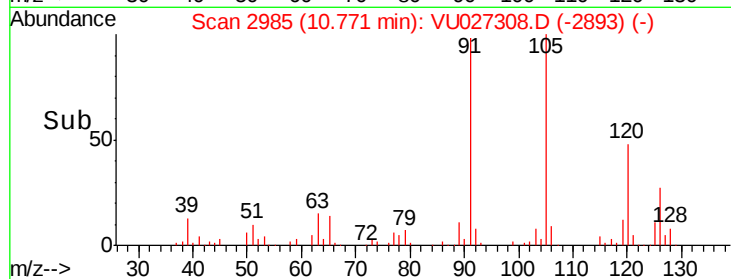
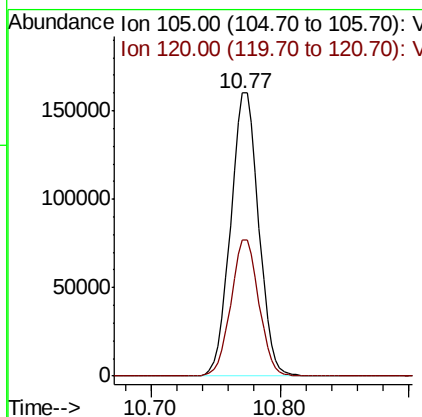
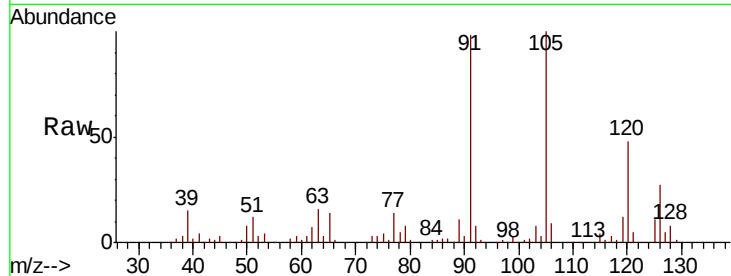
#80
 1,3,5-Trimethylbenzene
 Concen: 52.573 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion: 105 Resp: 241794
 Ion Ratio Lower Upper
 105 100
 120 48.1 23.9 71.7

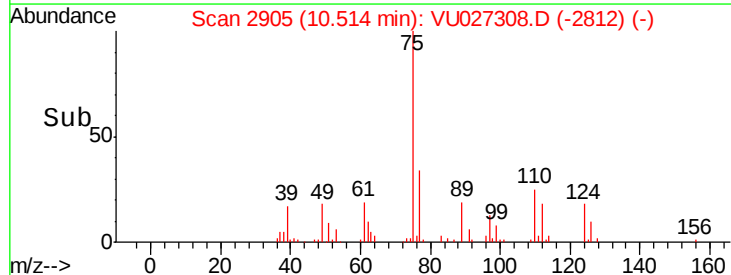
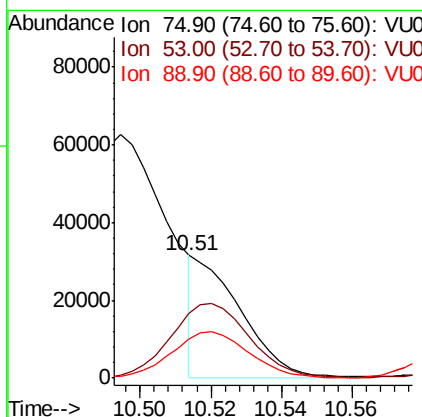
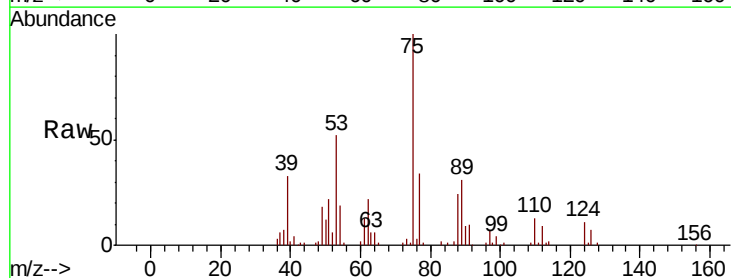
Manual Integrations
 APPROVED

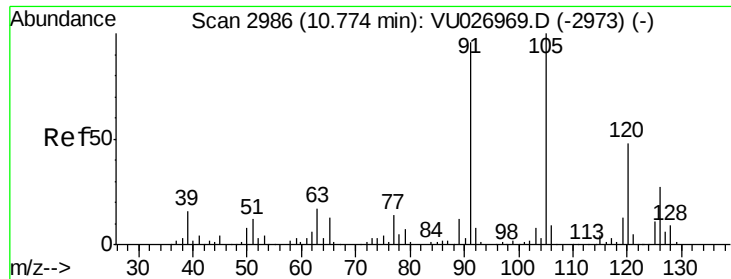
MMDadoda
 10/2/2018 1:08:36 PM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 40.383 ug/l m
 RT: 10.51 min Scan# 2905
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion: 75 Resp: 28079
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#82

4-Chlorotoluene

Concen: 51.664 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

ClientSampleId :

SA-TW502-0913MSD

Tot Ion: 91 Resp: 239884

Ion Ratio Lower Upper

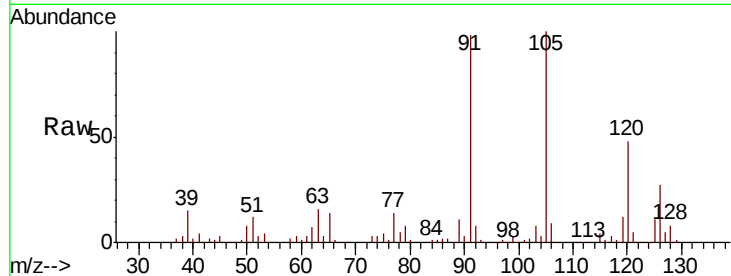
91 100

126 27.5 14.1 42.2

Manual Integrations
APPROVED

MMDadoda

10/2/2018 1:08:36 PM



Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-2973) (-)

Ion 125.90 (125.60 to 126.60): VU026969.D (-2973) (-)

10.77

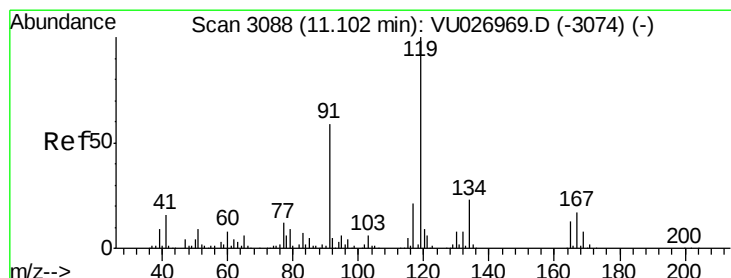
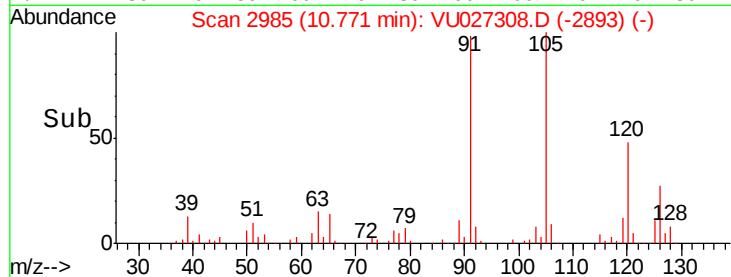
150000

100000

50000

0

Time-->



#83

tert-Butylbenzene

Concen: 52.188 ug/l

RT: 11.10 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

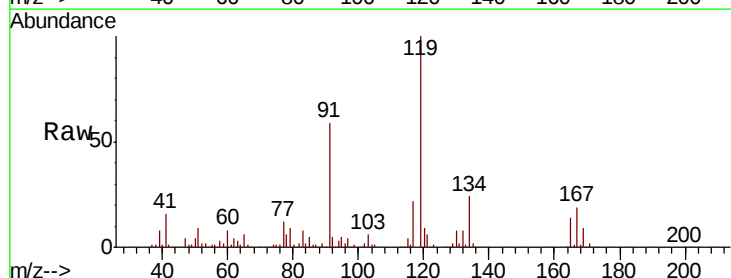
Tgt Ion: 119 Resp: 237303

Ion Ratio Lower Upper

119 100

91 59.6 29.8 89.4

134 23.4 11.5 34.4



Abundance Ion 119.00 (118.70 to 119.70): VU026969.D (-3074) (-)

Ion 91.00 (90.70 to 91.70): VU026969.D (-3074) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3074) (-)

11.10

200000

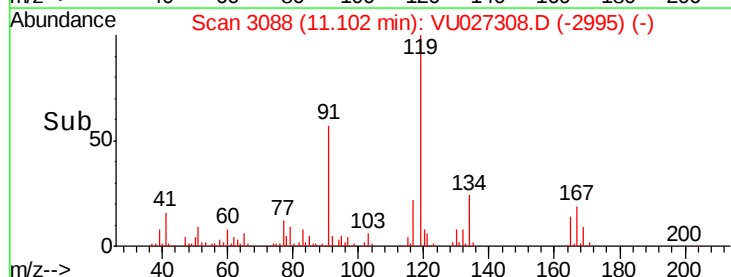
150000

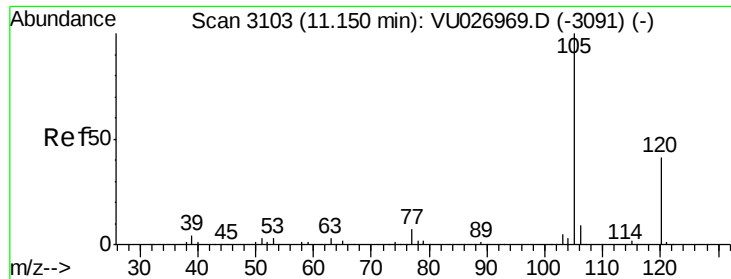
100000

50000

0

Time-->





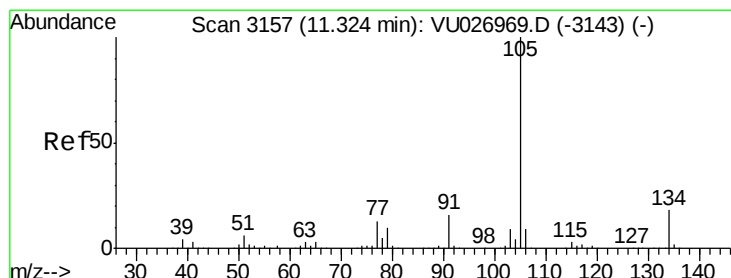
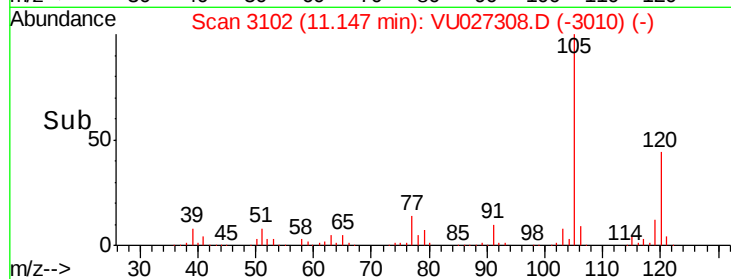
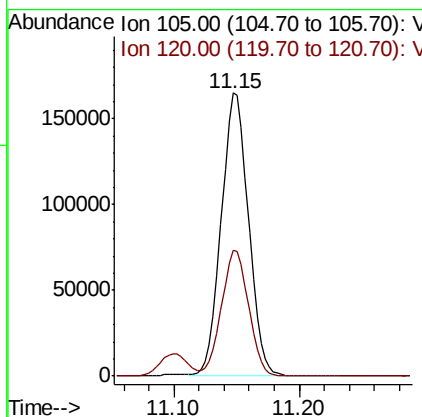
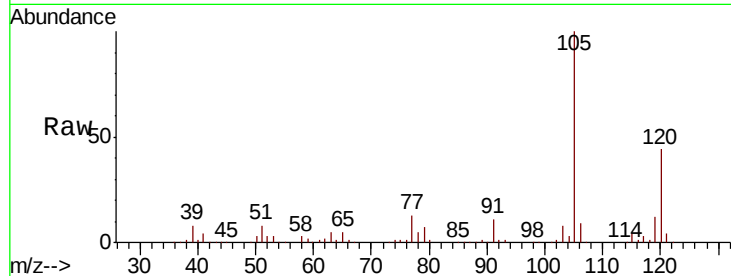
#84
 1,2,4-Trimethylbenzene
 Concen: 53.208 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.4	67.2

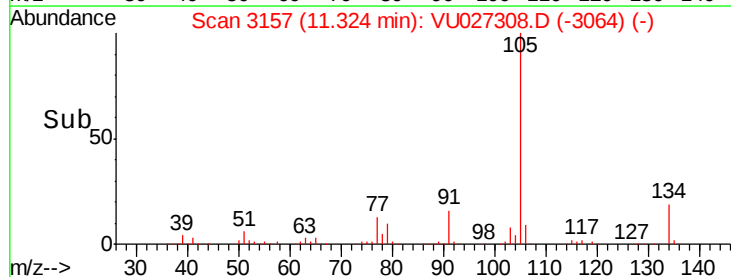
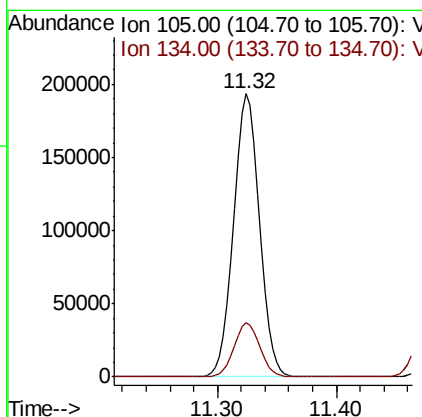
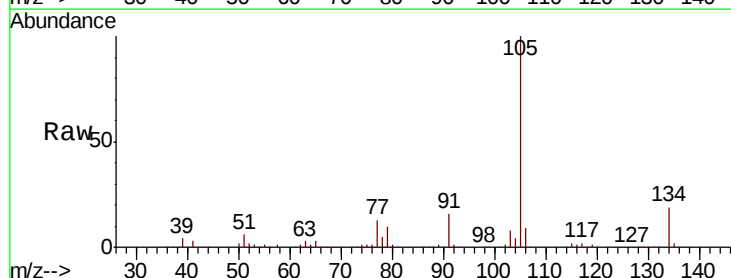
Manual Integrations
 APPROVED

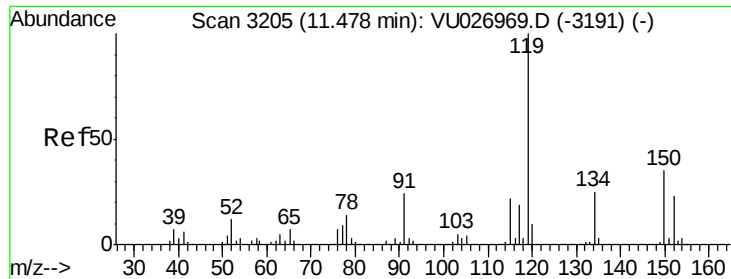
MMDadoda
 10/2/2018 1:08:36 PM



#85
 sec-Butylbenzene
 Concen: 52.486 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.4	28.2





#86

p-Isopropyltoluene

Concen: 46.969 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

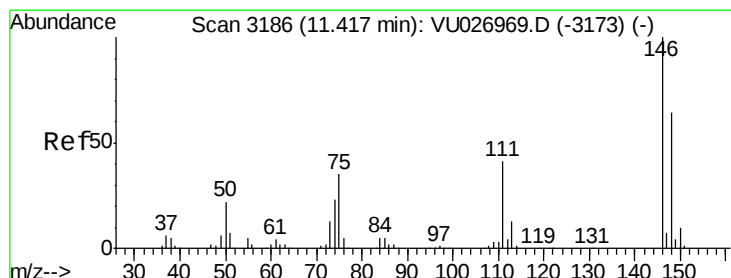
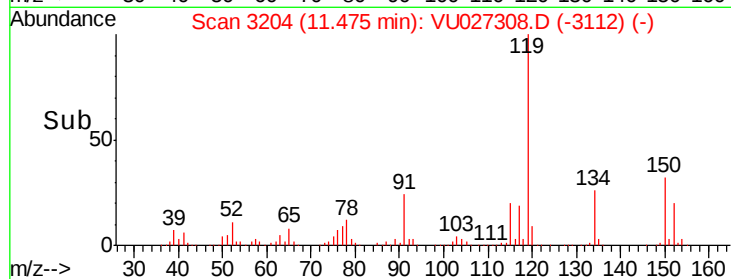
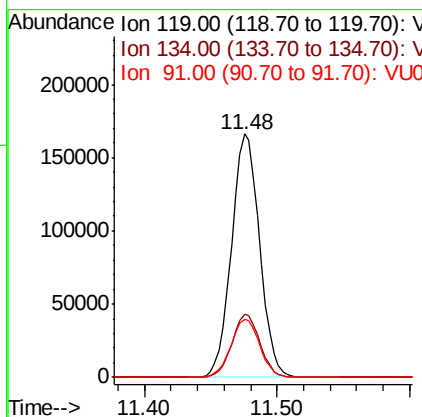
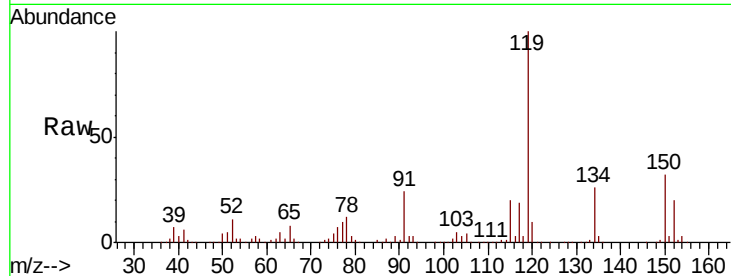
ClientSampleId :

SA-TW502-0913MSD

Tot Ion:	119	Resp:	244328
Ion Ratio	Lower	Upper	
119	100		
134	25.7	12.8	38.3
91	24.4	12.3	36.8

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#87

1,3-Dichlorobenzene

Concen: 48.618 ug/l

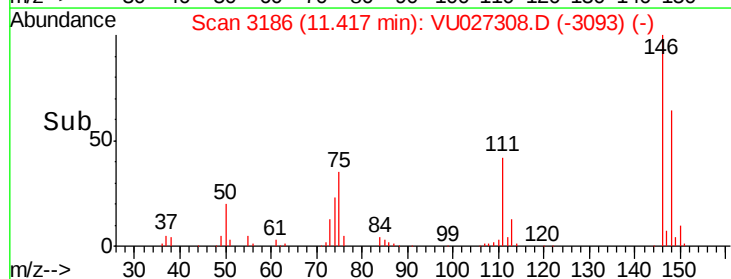
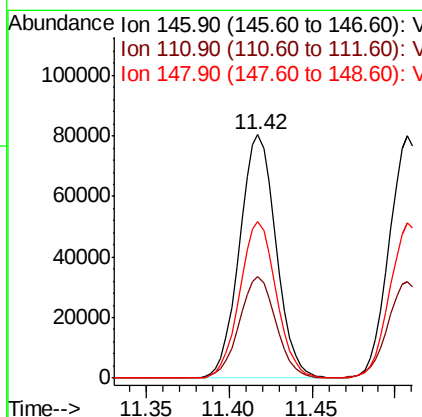
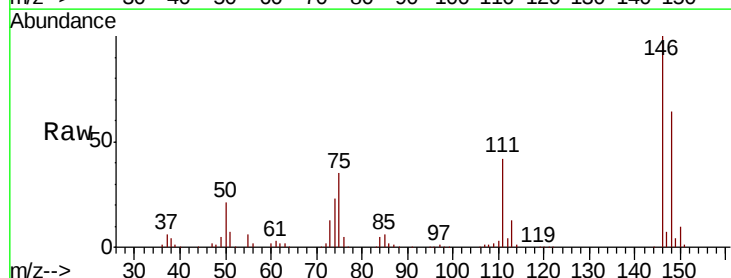
RT: 11.42 min Scan# 3186

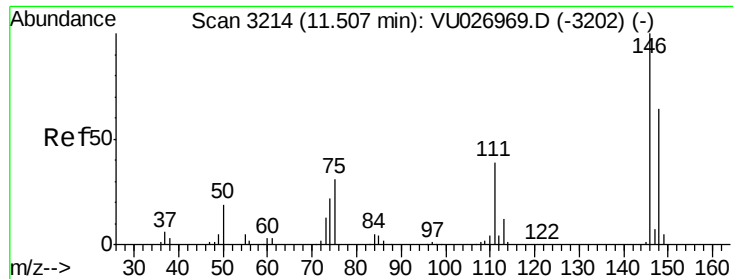
Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Tgt Ion:	146	Resp:	123180
Ion Ratio	Lower	Upper	
146	100		
111	41.9	20.8	62.2
148	64.3	32.0	96.2





#88

1,4-Dichlorobenzene

Concen: 45.257 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Instrument :

MSVOA_U

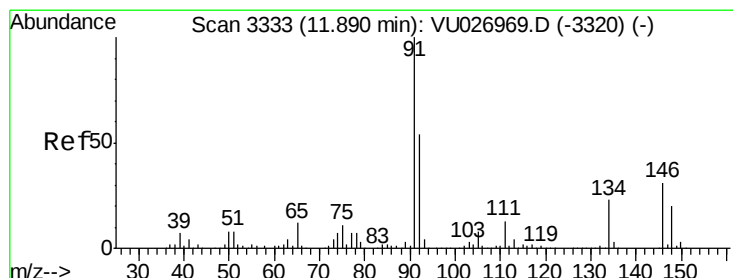
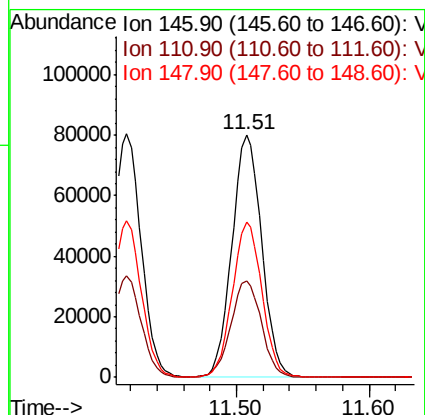
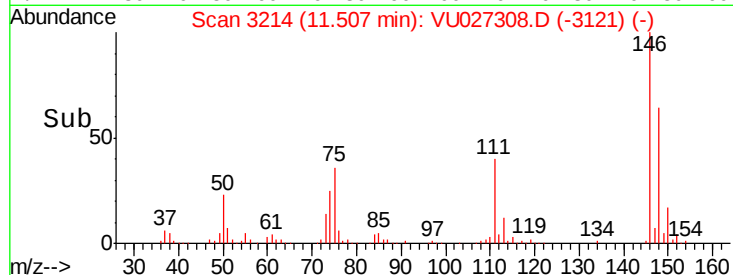
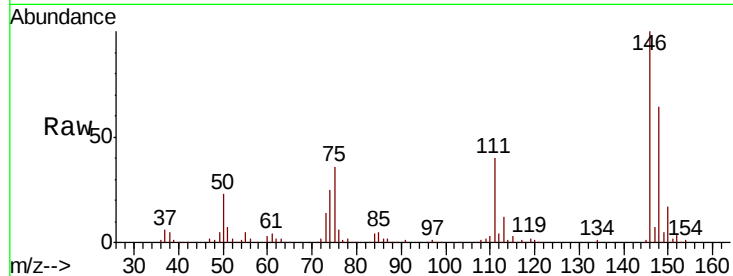
ClientSampleId :

SA-TW502-0913MSD

Tot Ion:	146	Resp:	124971
Ion Ratio	Lower	Upper	
146	100		
111	41.0	20.3	60.9
148	63.6	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM



#89

n-Butylbenzene

Concen: 43.464 ug/l

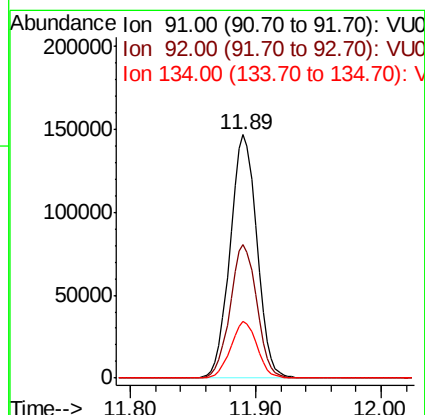
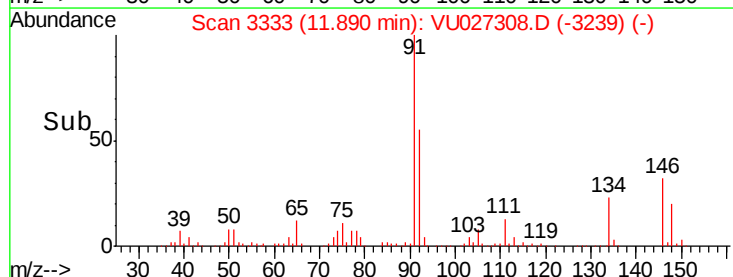
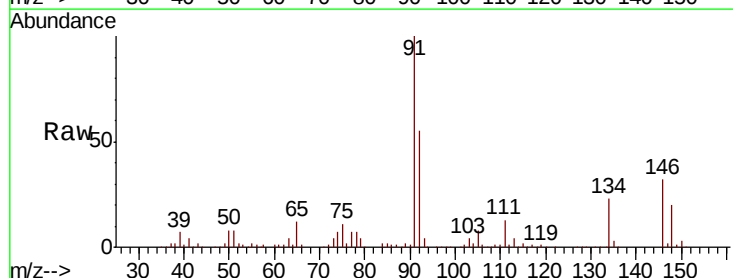
RT: 11.89 min Scan# 3333

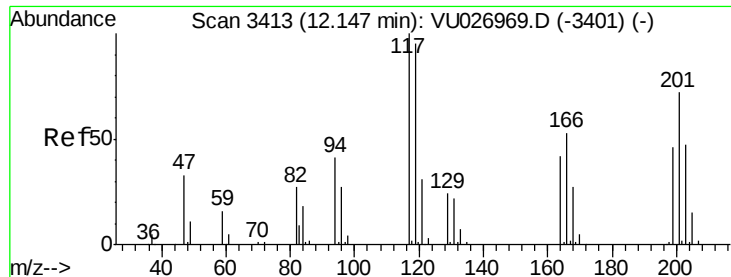
Delta R.T. 0.00 min

Lab File: VU027308.D

Acq: 29 Sep 2018 06:11

Tgt Ion:	91	Resp:	217785
Ion Ratio	Lower	Upper	
91	100		
92	54.3	27.1	81.2
134	22.8	11.7	35.0





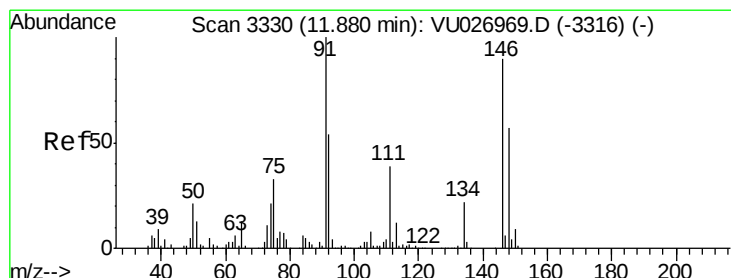
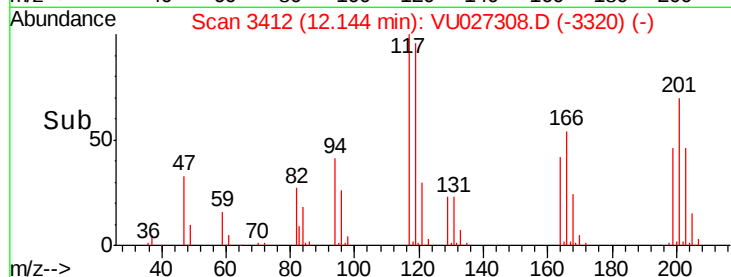
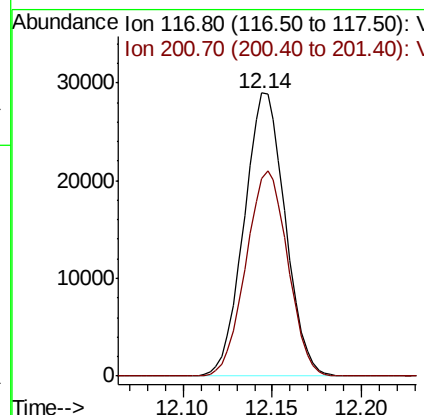
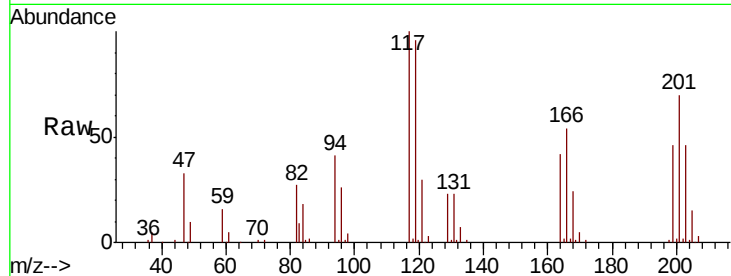
#90
Hexachloroethane
Concen: 46.351 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion:117 Resp: 46785
Ion Ratio Lower Upper
117 100
201 73.7 36.8 110.3

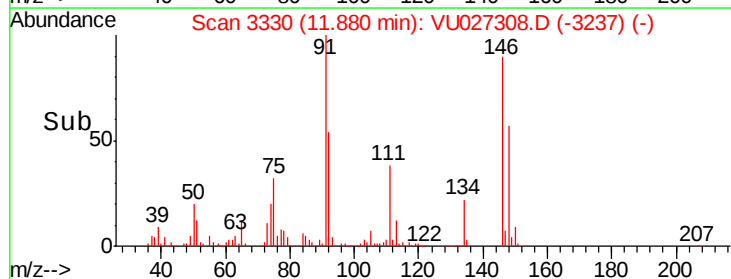
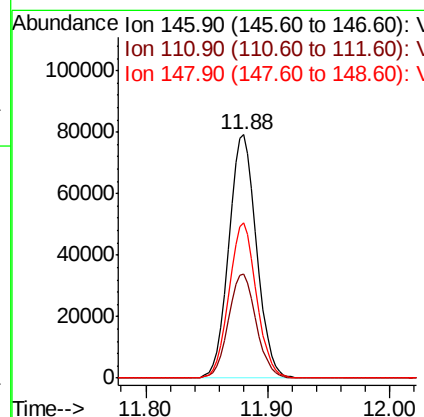
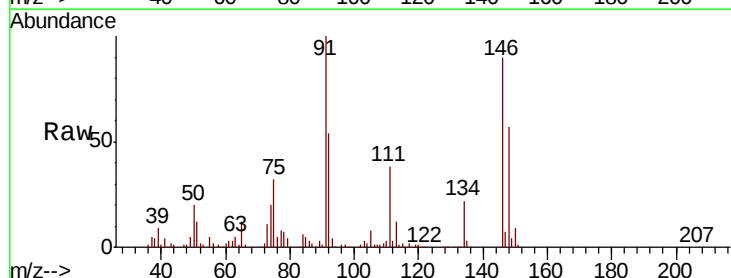
Manual Integrations
APPROVED

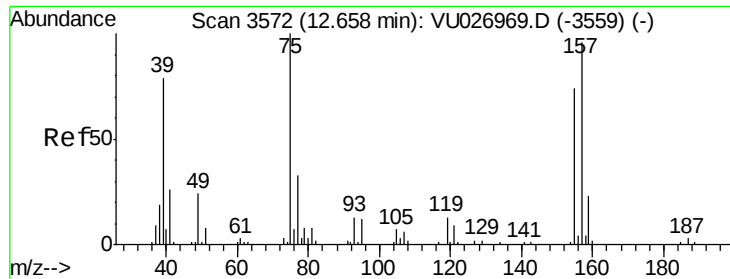
MMDadoda
10/2/2018 1:08:36 PM



#91
1,2-Dichlorobenzene
Concen: 46.945 ug/l
RT: 11.88 min Scan# 3330
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion:146 Resp: 126345
Ion Ratio Lower Upper
146 100
111 42.6 21.8 65.3
148 63.1 31.9 95.7





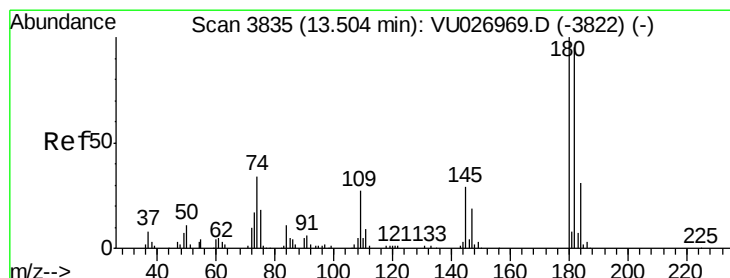
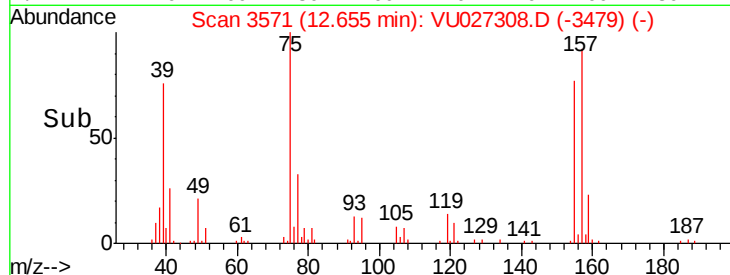
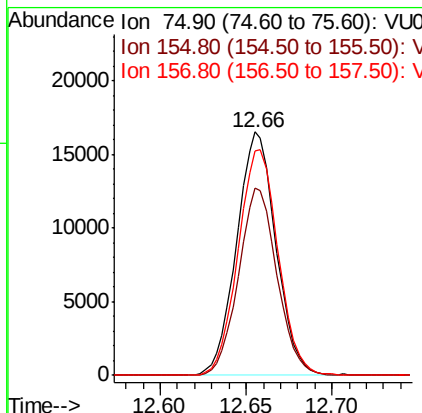
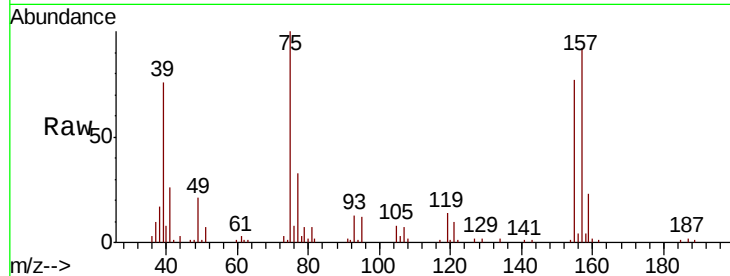
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.129 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
75	100		
155	75.0	36.6	109.8
157	94.2	47.4	142.2

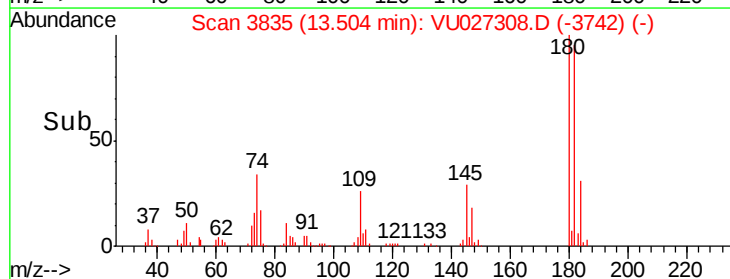
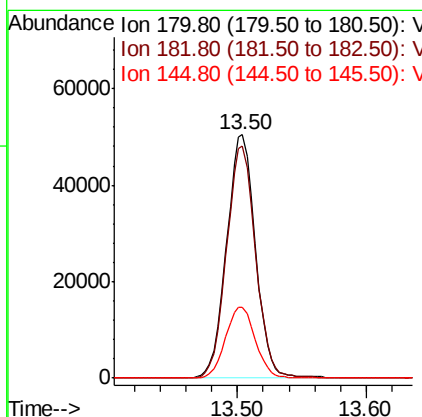
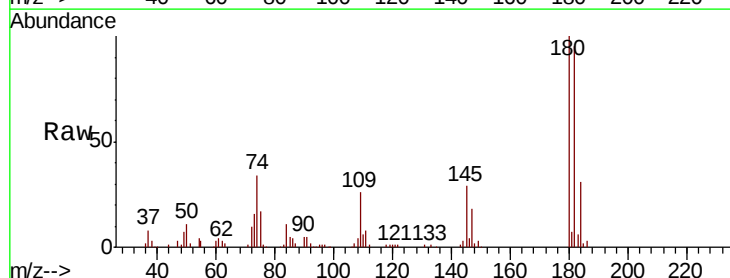
Manual Integrations
 APPROVED

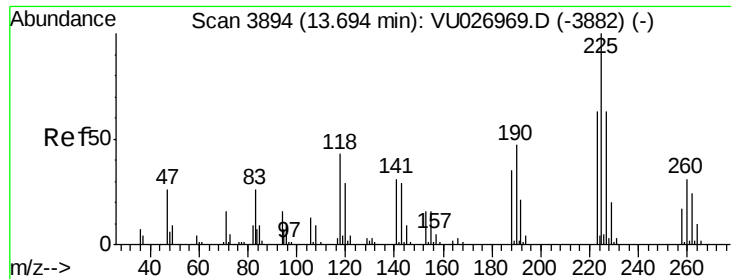
MMDadoda
 10/2/2018 1:08:36 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 50.645 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.4	142.2
145	30.0	14.9	44.5





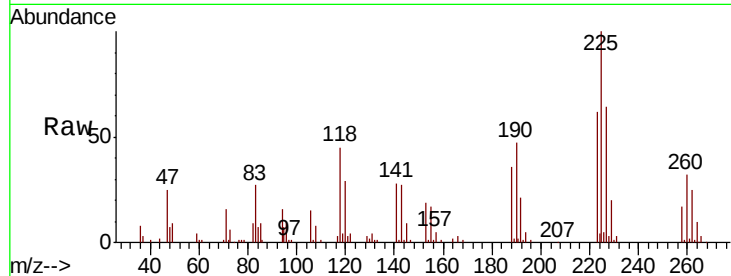
#94
Hexachlorobutadiene
Concen: 44.656 ug/l
RT: 13.69 min Scan# 3893
Delta R.T. -0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Instrument :
MSVOA_U
ClientSampleId :
SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
225	100		
223	63.1	31.9	95.7
227	63.8	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
10/2/2018 1:08:36 PM

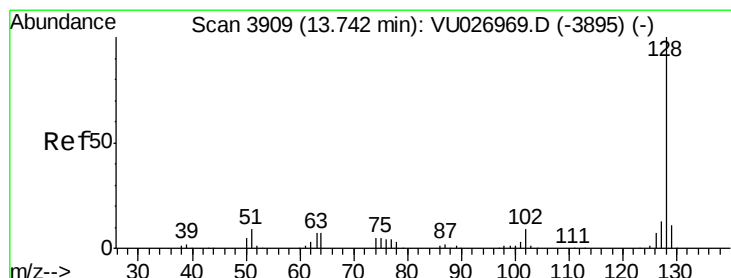
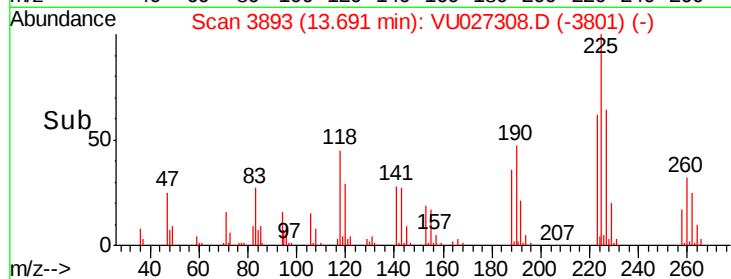
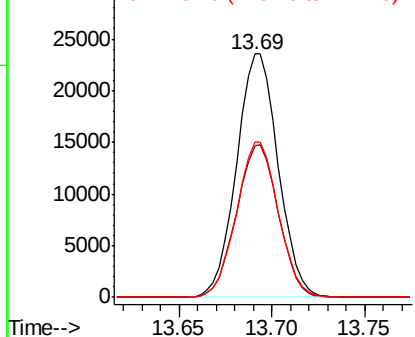


Abundance

Ion 224.70 (224.40 to 225.40): V

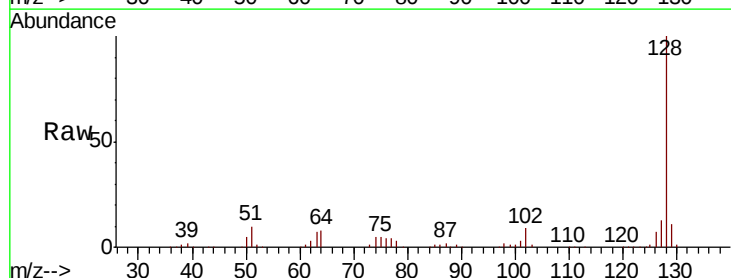
Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95
Naphthalene
Concen: 48.503 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU027308.D
Acq: 29 Sep 2018 06:11

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	10.8	8.6	12.8

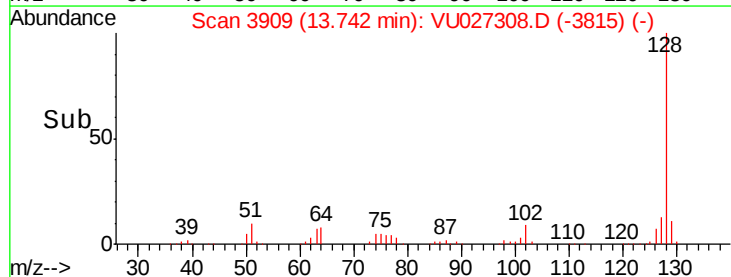
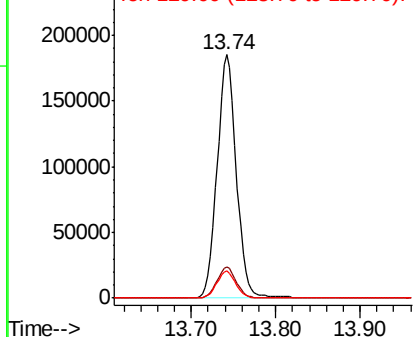


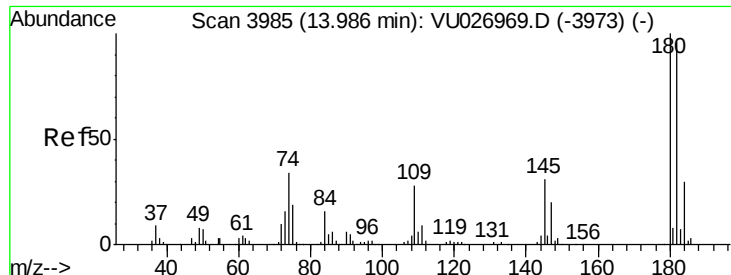
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





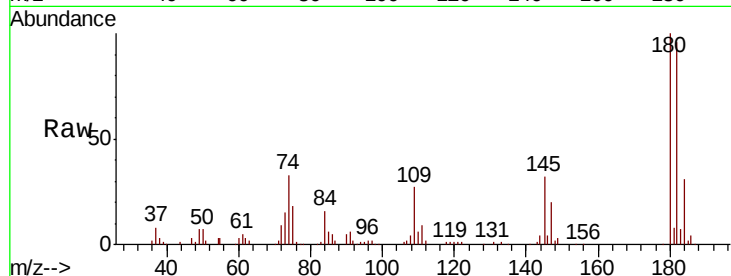
#96
 1,2,3-Trichlorobenzene
 Concen: 50.652 ug/l
 RT: 13.99 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VU027308.D
 Acq: 29 Sep 2018 06:11

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-TW502-0913MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.5	142.5
145	31.8	15.4	46.4

Manual Integrations
 APPROVED

MMDadoda
 10/2/2018 1:08:36 PM



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

