

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092318\
 Data File : VU027065.D
 Acq On : 23 Sep 2018 12:06
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 107 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 4:40:36 PM

Quant Time: Sep 24 07:42:41 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	4.98	168	86793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	147575	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	142100	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	78629	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	90642	51.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.78%	
35) Dibromofluoromethane	4.88	113	63458	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
50) Toluene-d8	7.57	98	246753	50.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.24%	
62) 4-Bromofluorobenzene	10.31	95	88495	52.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	52660	46.470	ug/l	100
3) Chloromethane	1.33	50	88050	45.067	ug/l	100
4) Vinyl Chloride	1.40	62	84559	46.366	ug/l	99
5) Bromomethane	1.61	94	45432	43.746	ug/l	99
6) Chloroethane	1.69	64	55236	47.402	ug/l	98
7) Trichlorofluoromethane	1.88	101	96971	46.816	ug/l	98
8) Diethyl Ether	2.10	74	48084	48.229	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.28	101	59563	46.768	ug/l	99
10) Methyl Iodide	2.41	142	63647	40.294	ug/l	99
11) Tert butyl alcohol	2.83	59	95237	237.860	ug/l	99
12) 1,1-Dichloroethene	2.28	96	54699	45.630	ug/l	97
13) Acrolein	2.19	56	51074	236.632	ug/l	100
14) Allyl chloride	2.59	41	129109	53.102	ug/l	97
15) Acrylonitrile	2.93	53	250906	248.634	ug/l	99
16) Acetone	2.32	43	262873	285.662	ug/l	100
17) Carbon Disulfide	2.48	76	177331	45.410	ug/l	100
18) Methyl Acetate	2.61	43	125277	50.386	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	228685	51.914	ug/l	100
20) Methylene Chloride	2.70	84	71303	45.577	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	61665	48.181	ug/l	99
22) Diisopropyl ether	3.57	45	282826	54.385	ug/l	97
23) Vinyl Acetate	3.52	43	1212290	273.473	ug/l	98
24) 1,1-Dichloroethane	3.44	63	141421	49.376	ug/l	99
25) 2-Butanone	4.26	43	376760	256.643	ug/l	99
26) 2,2-Dichloropropane	4.23	77	112675	50.443	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	72466	50.136	ug/l	97
28) Bromochloromethane	4.55	49	78867	57.122	ug/l	94
29) Tetrahydrofuran	4.64	42	228017	256.758	ug/l	97
30) Chloroform	4.67	83	127706	48.034	ug/l	98
31) Cyclohexane	5.00	56	132696	50.978	ug/l	99
32) 1,1,1-Trichloroethane	4.92	97	105422	49.664	ug/l	99
36) 1,1-Dichloropropene	5.13	75	97860	49.686	ug/l	98
37) Ethyl Acetate	4.38	43	131180	49.200	ug/l	99
38) Carbon Tetrachloride	5.13	117	89800	47.911	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092318\
 Data File : VU027065.D
 Acq On : 23 Sep 2018 12:06
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 107 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 4:40:36 PM

Quant Time: Sep 24 07:42:41 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	114610	53.547	ug/l	98
40) Benzene	5.39	78	286465	47.845	ug/l	99
41) Methacrylonitrile	4.54	41	73921	53.384	ug/l	98
42) 1,2-Dichloroethane	5.41	62	110988	49.063	ug/l	100
43) Isopropyl Acetate	5.55	43	203433	52.318	ug/l	99
44) Trichloroethene	6.19	130	61375	48.150	ug/l	98
45) 1,2-Dichloropropane	6.43	63	85910	50.357	ug/l	99
46) Dibromomethane	6.56	93	49875	48.406	ug/l	97
47) Bromodichloromethane	6.76	83	101216	48.582	ug/l	97
48) Methyl methacrylate	6.62	41	104225	49.262	ug/l	99
49) 1,4-Dioxane	6.61	88	38939	926.317	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	689046	263.478	ug/l	100
52) Toluene	7.64	92	174243	50.770	ug/l	98
53) t-1,3-Dichloropropene	7.88	75	118207	52.807	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	128754	52.313	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	71026	48.841	ug/l	99
56) Ethyl methacrylate	8.02	69	121600	48.272	ug/l	98
57) 1,3-Dichloropropane	8.24	76	135718	50.178	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	351316	245.427	ug/l	99
59) 2-Hexanone	8.36	43	536139	261.899	ug/l	99
60) Dibromochloromethane	8.48	129	71260	49.957	ug/l	100
61) 1,2-Dibromoethane	8.59	107	73373	48.493	ug/l	99
64) Tetrachloroethene	8.23	164	52096	47.577	ug/l	98
65) Chlorobenzene	9.12	112	179172	47.554	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	64434	49.650	ug/l	100
67) Ethyl Benzene	9.25	91	329549	53.190	ug/l	99
68) m/p-Xylenes	9.38	106	245905	98.032	ug/l	98
69) o-Xylene	9.78	106	118154	53.823	ug/l	98
70) Styrene	9.79	104	196528	48.022	ug/l	99
71) Bromoform	9.96	173	50711	50.531	ug/l #	98
73) Isopropylbenzene	10.17	105	323453	54.078	ug/l	99
74) N-amyl acetate	10.01	43	188942	54.573	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	127678	46.428	ug/l	98
76) 1,2,3-Trichloropropane	10.49	75	108136m	45.269	ug/l	
77) Bromobenzene	10.45	156	72125	49.346	ug/l	96
78) n-propylbenzene	10.59	91	393015	55.533	ug/l	100
79) 2-Chlorotoluene	10.66	91	231055	51.977	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	270815	54.850	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	36167m	48.453	ug/l	
82) 4-Chlorotoluene	10.77	91	266313	53.428	ug/l	99
83) tert-Butylbenzene	11.10	119	256981	52.645	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	278425	55.411	ug/l	98
85) sec-Butylbenzene	11.32	105	327881	55.026	ug/l	100
86) p-Isopropyltoluene	11.48	119	279331	49.960	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	133608	49.122	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	133646	45.084	ug/l	99
89) n-Butylbenzene	11.89	91	260778	48.204	ug/l	99
90) Hexachloroethane	12.15	117	52552	48.499	ug/l	98
91) 1,2-Dichlorobenzene	11.88	146	135203	46.796	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	27431	48.896	ug/l	97

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092318\
Data File : VU027065.D
Acq On : 23 Sep 2018 12:06
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 107 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

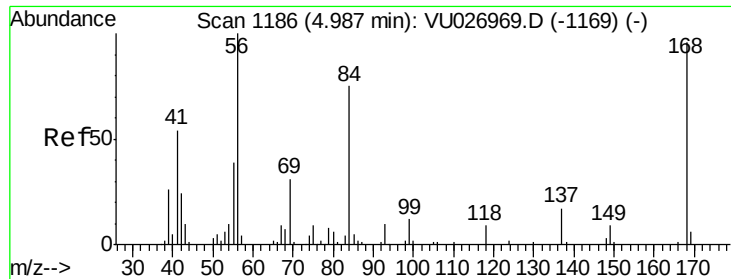
Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM

Quant Time: Sep 24 07:42:41 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	85688	51.466	ug/l	100
94) Hexachlorobutadiene	13.69	225	42156	47.853	ug/l	99
95) Naphthalene	13.74	128	303228	46.696	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	89658	50.215	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 86793

Ion Ratio Lower Upper

168 100

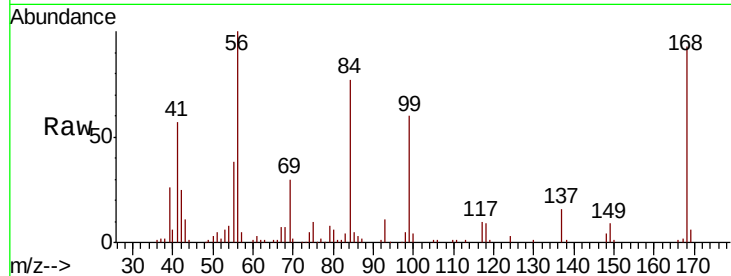
99 63.9 48.1 72.1

Manual Integrations

APPROVED

MMDadoda

9/24/2018 4:40:36 PM

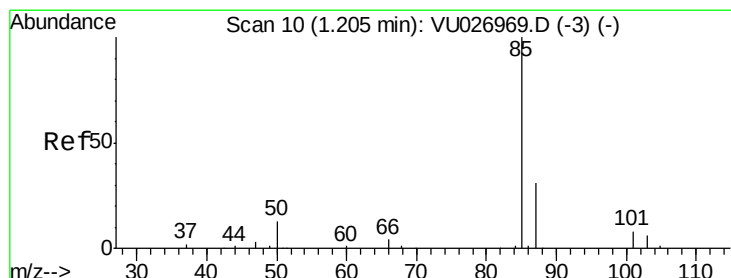
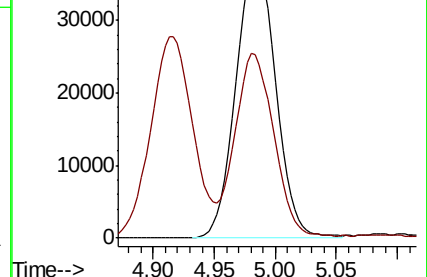
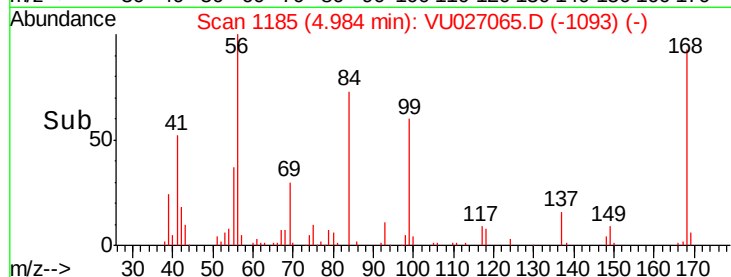


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.98

4.90 4.95 5.00 5.05



#2

Dichlorodifluoromethane

Concen: 46.470 ug/l

RT: 1.20 min Scan# 9

Delta R.T. -0.00 min

Lab File: VU027065.D

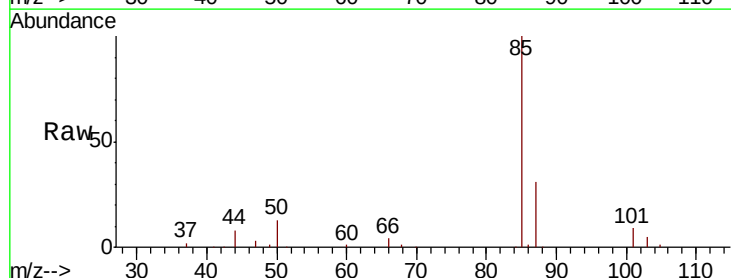
Acq: 23 Sep 2018 12:06

Tgt Ion: 85 Resp: 52660

Ion Ratio Lower Upper

85 100

87 31.1 15.6 46.7

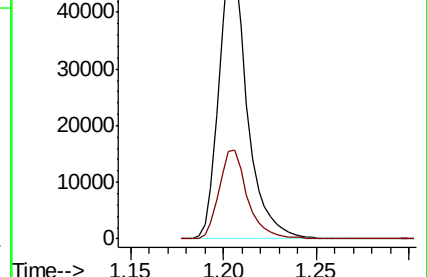
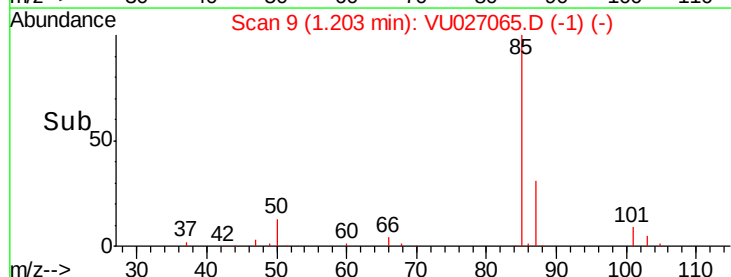


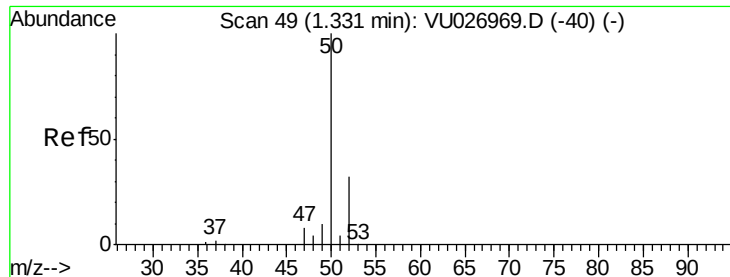
Abundance Ion 84.90 (84.60 to 85.60): VU026969.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU026969.D (-3) (-)

1.20

1.15 1.20 1.25





#3

Chloromethane

Concen: 45.067 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 88050

Ion Ratio Lower Upper

50 100

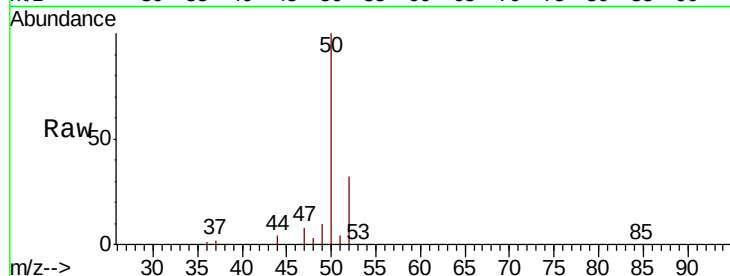
52 32.1 25.9 38.9

Manual Integrations

APPROVED

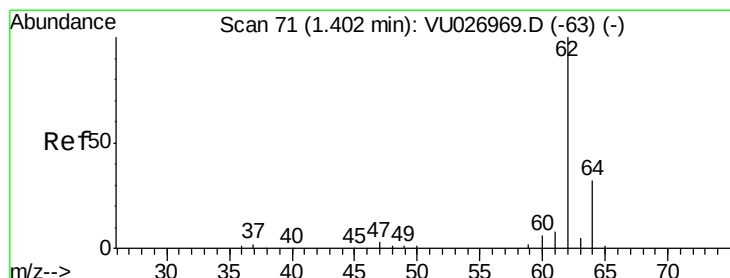
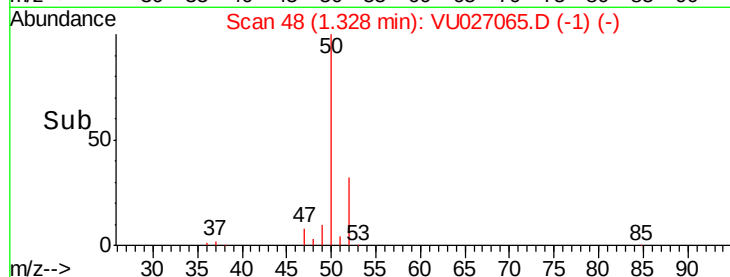
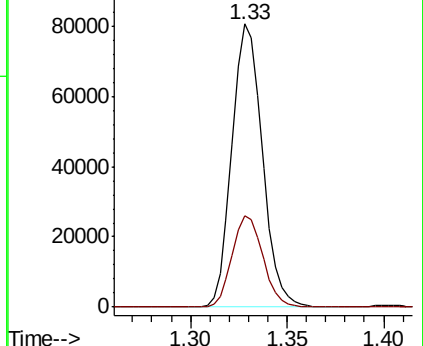
MMDadoda

9/24/2018 4:40:36 PM



Abundance Ion 49.90 (49.60 to 50.60): VU026969.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU027065.D (-1) (-)



#4

Vinyl Chloride

Concen: 46.366 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU027065.D

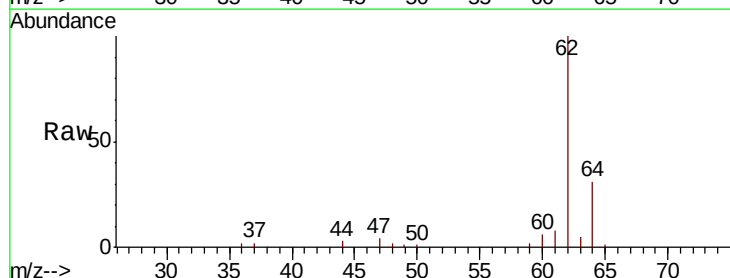
Acq: 23 Sep 2018 12:06

Tgt Ion: 62 Resp: 84559

Ion Ratio Lower Upper

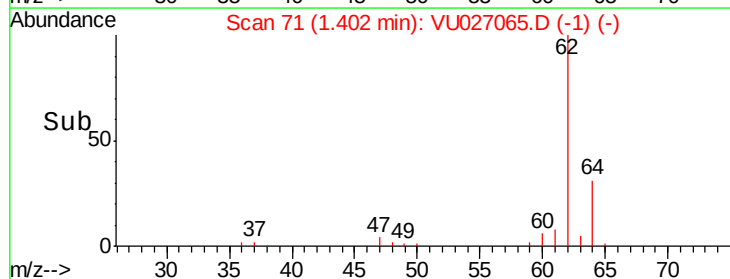
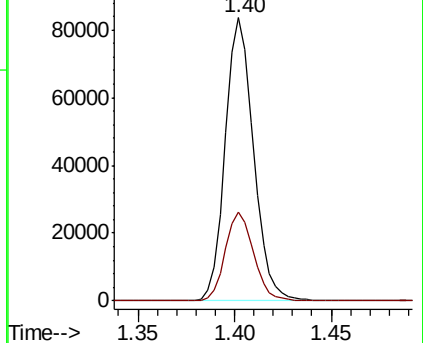
62 100

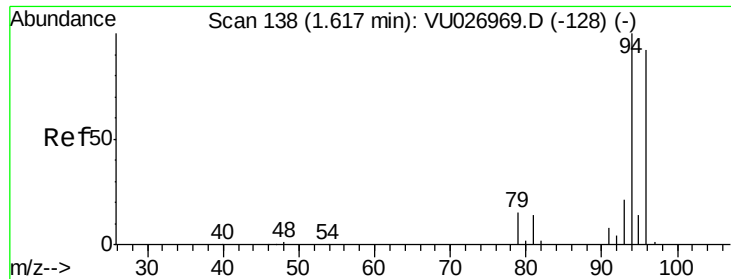
64 31.2 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VU026969.D (-63) (-)

Ion 63.90 (63.60 to 64.60): VU027065.D (-1) (-)





#5

Bromomethane

Concen: 43.746 ug/l

RT: 1.61 min Scan# 135

Delta R.T. -0.01 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 45432

Ion Ratio Lower Upper

94 100

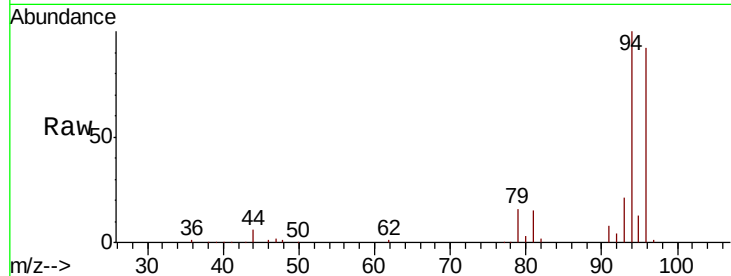
96 92.2 73.2 109.8

Manual Integrations

APPROVED

MMDadoda

9/24/2018 4:40:36 PM



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

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

1.61

40000

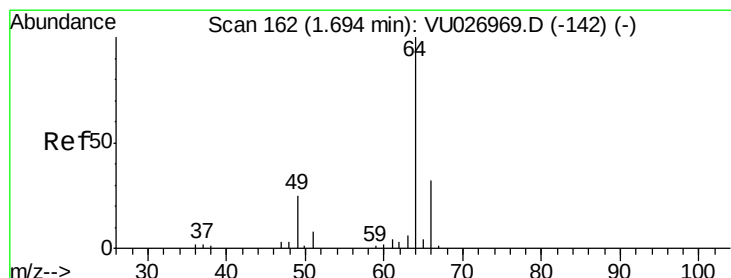
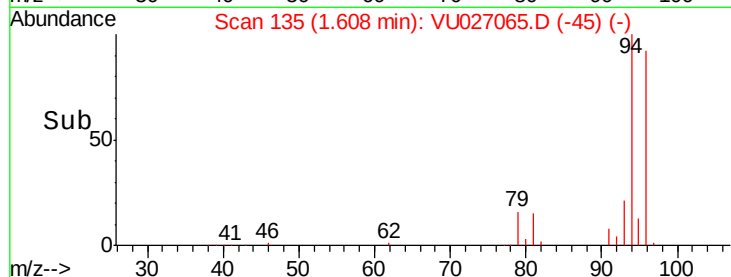
30000

20000

10000

0

Time-->



#6

Chloroethane

Concen: 47.402 ug/l

RT: 1.69 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU027065.D

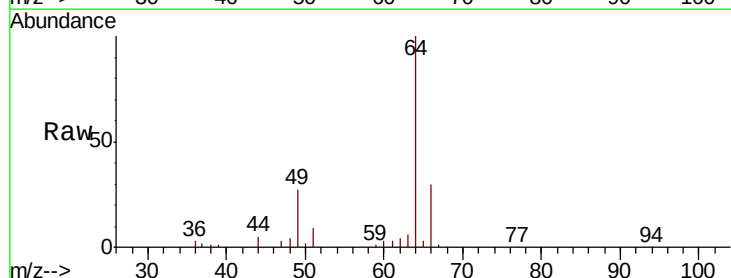
Acq: 23 Sep 2018 12:06

Tgt Ion: 64 Resp: 55236

Ion Ratio Lower Upper

64 100

66 30.5 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

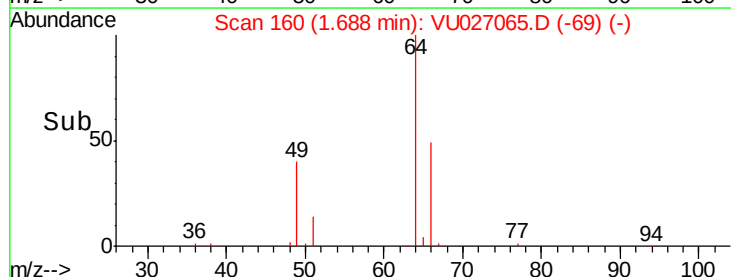
30000

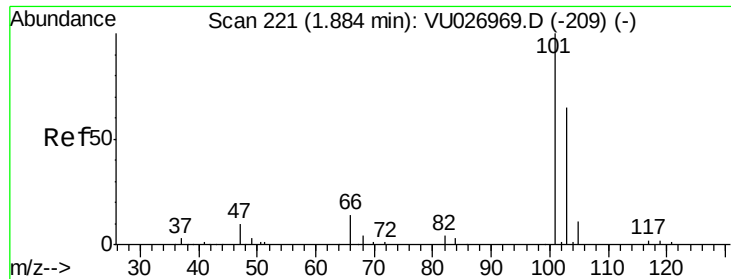
20000

10000

0

Time-->





#7

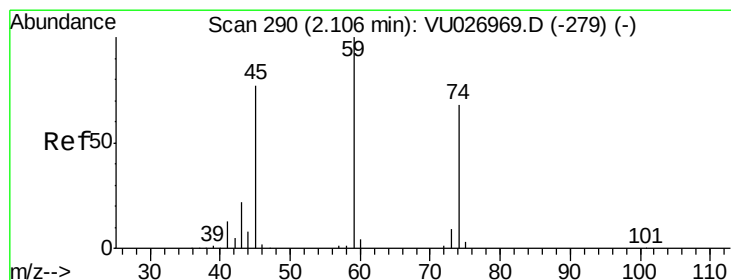
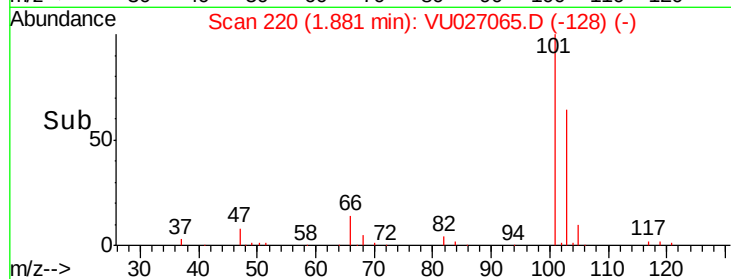
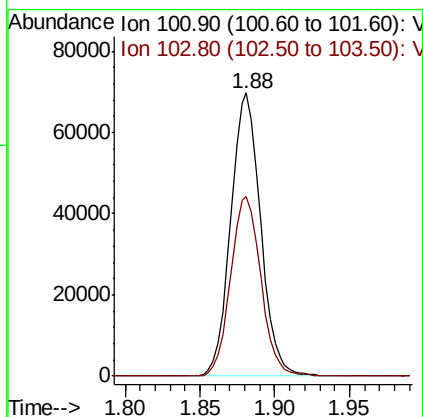
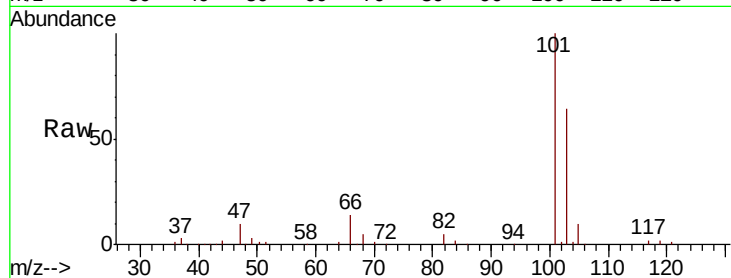
Trichlorofluoromethane
Concen: 46.816 ug/l
RT: 1.88 min Scan# 220
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 96971
Ion Ratio Lower Upper
101 100
103 63.5 52.2 78.2

Manual Integrations
APPROVED

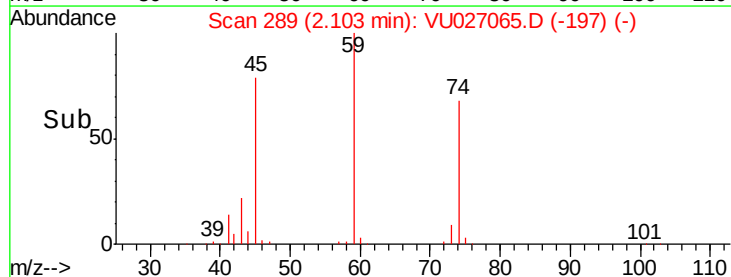
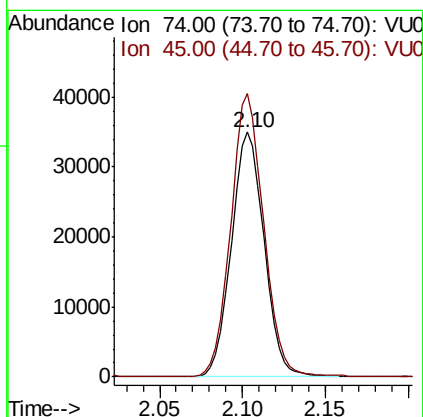
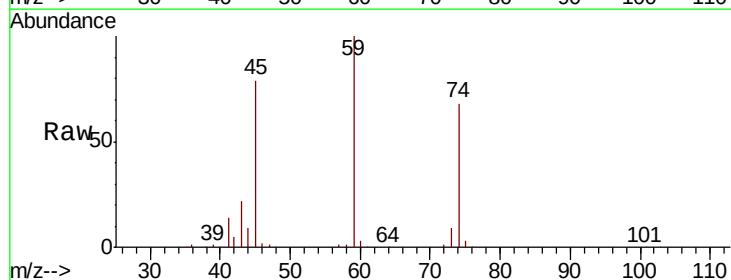
MMDadoda
9/24/2018 4:40:36 PM

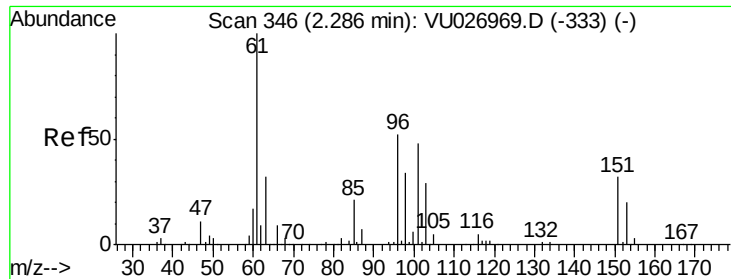


#8

Diethyl Ether
Concen: 48.229 ug/l
RT: 2.10 min Scan# 289
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion: 74 Resp: 48084
Ion Ratio Lower Upper
74 100
45 116.9 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.768 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

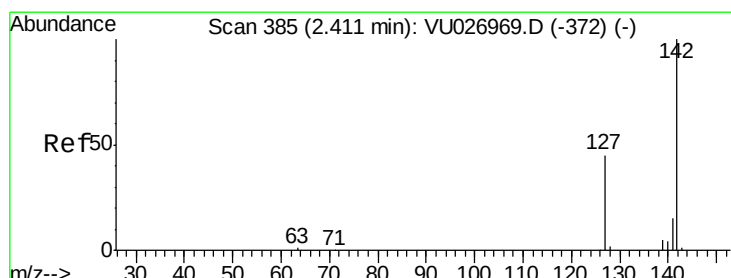
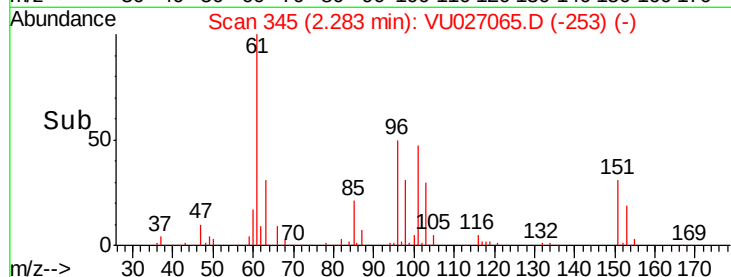
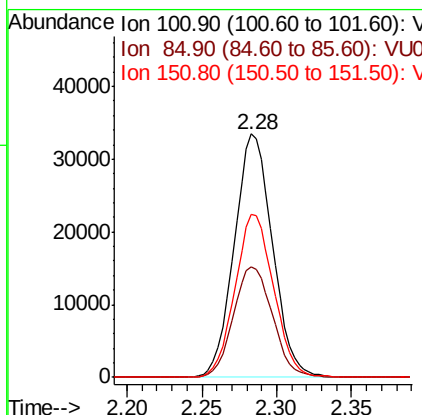
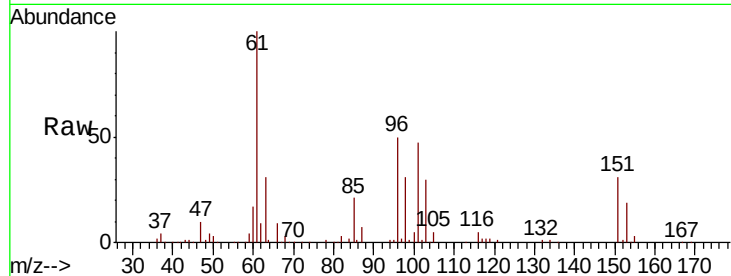
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	59563
Ion Ratio	Lower	Upper	
101	100		
85	46.3	36.2	54.2
151	67.6	54.5	81.7

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM



#10

Methyl Iodide

Concen: 40.294 ug/l

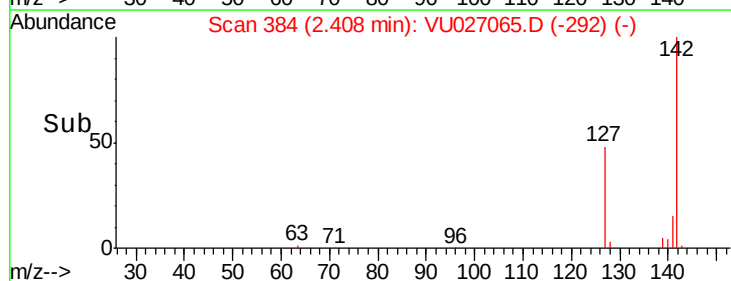
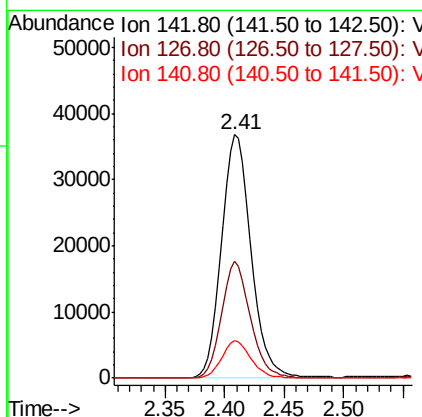
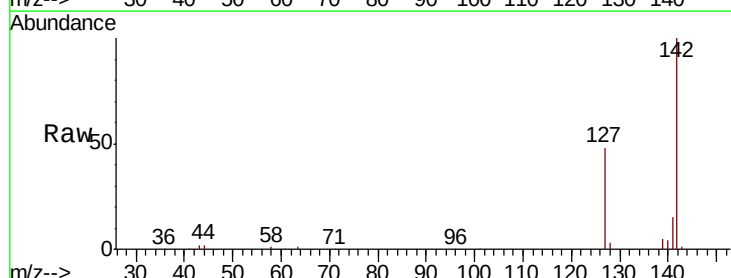
RT: 2.41 min Scan# 384

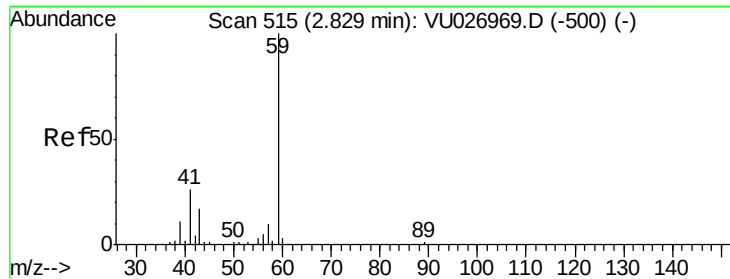
Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Tgt Ion:	142	Resp:	63647
Ion Ratio	Lower	Upper	
142	100		
127	46.4	36.7	55.1
141	15.1	11.8	17.6





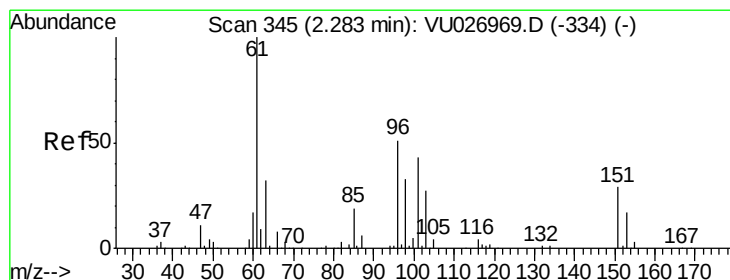
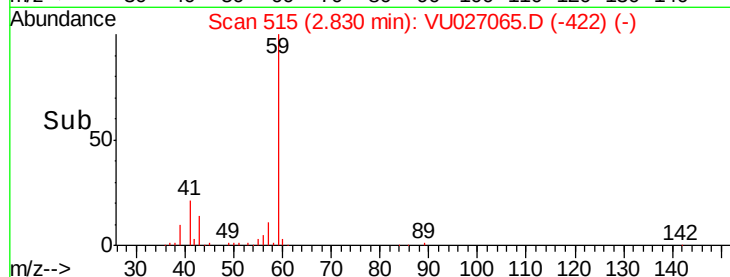
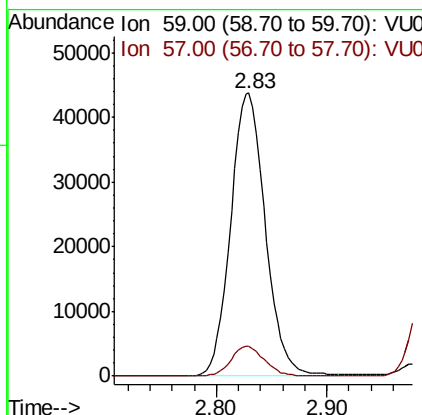
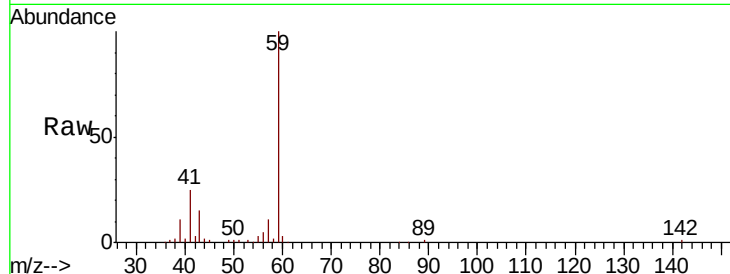
#11
Tert butyl alcohol
Concen: 237.860 ug/l
RT: 2.83 min Scan# 515
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	95237
Ion Ratio	100	Lower	Upper
57	10.2	8.5	12.7

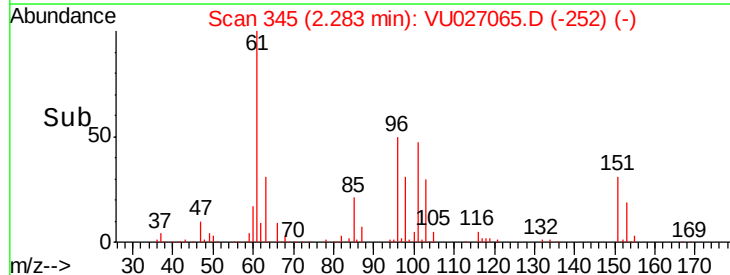
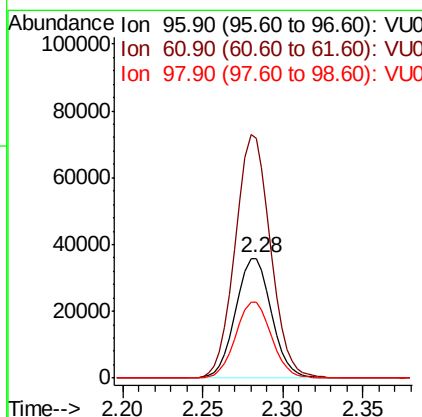
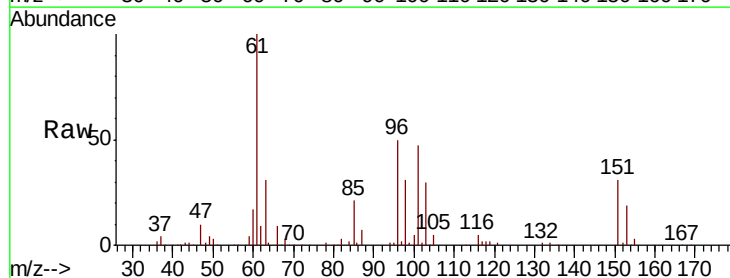
Manual Integrations
APPROVED

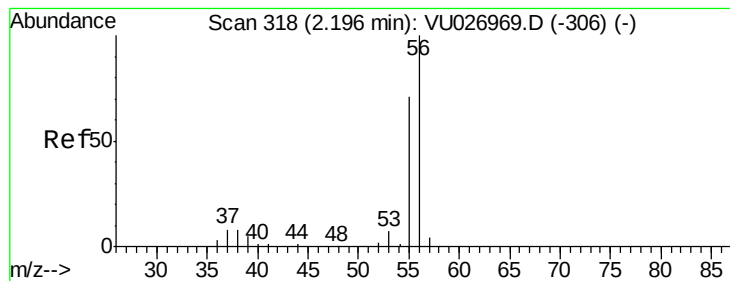
MMDadoda
9/24/2018 4:40:36 PM



#12
1,1-Dichloroethene
Concen: 45.630 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	96	Resp	54699
Ion Ratio	100	Lower	Upper
61	199.2	156.1	234.1
98	62.7	51.4	77.0





#13

Acrolein

Concen: 236.632 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 51074

Ion Ratio Lower Upper

56 100

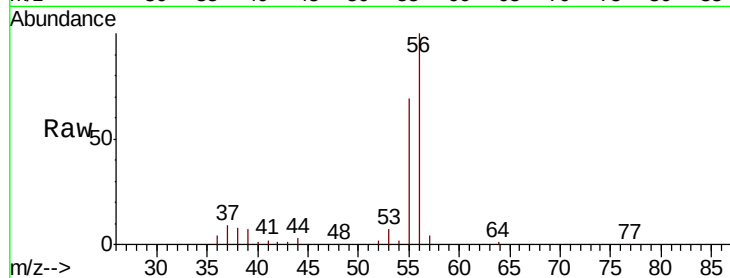
55 71.4 57.1 85.7

Manual Integrations

APPROVED

MMDadoda

9/24/2018 4:40:36 PM



Abundance Ion 56.00 (55.70 to 56.70): VU026969.D (-306) (-)

Ion 55.00 (54.70 to 55.70): VU026969.D (-306) (-)

2.19

40000

30000

20000

10000

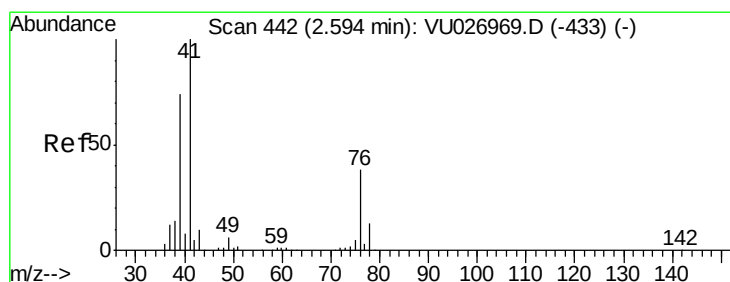
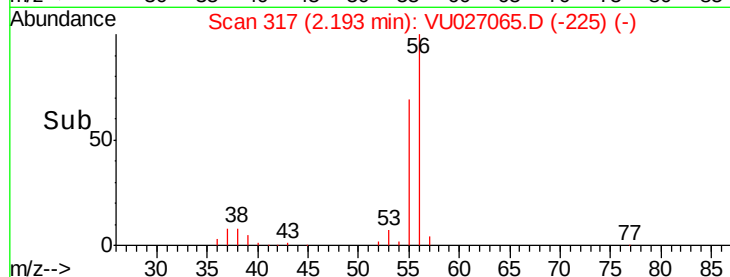
0

Time-->

2.15

2.20

2.25



#14

Allyl chloride

Concen: 53.102 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

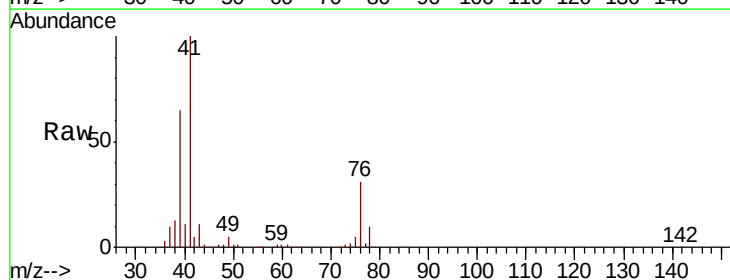
Tgt Ion: 41 Resp: 129109

Ion Ratio Lower Upper

41 100

39 67.4 55.7 83.5

76 30.9 26.5 39.7



Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-433) (-)

Ion 39.00 (38.70 to 39.70): VU026969.D (-433) (-)

Ion 75.90 (75.60 to 76.60): VU026969.D (-433) (-)

2.59

100000

80000

60000

40000

20000

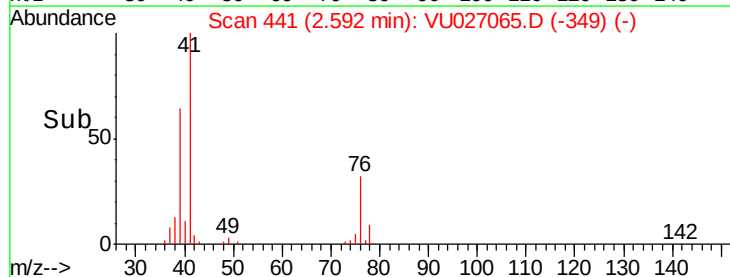
0

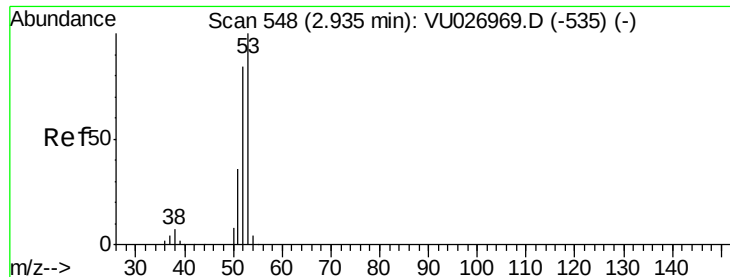
Time-->

2.55

2.60

2.65





#15

Acrylonitrile

Concen: 248.634 ug/l

RT: 2.93 min Scan# 547

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

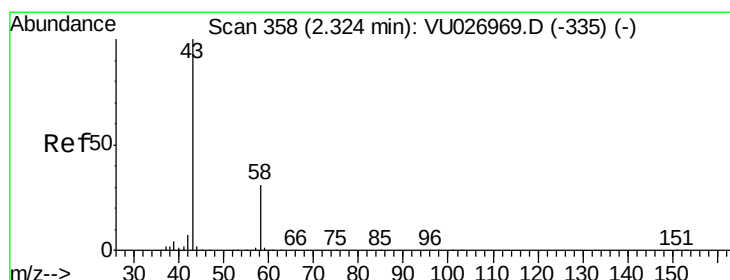
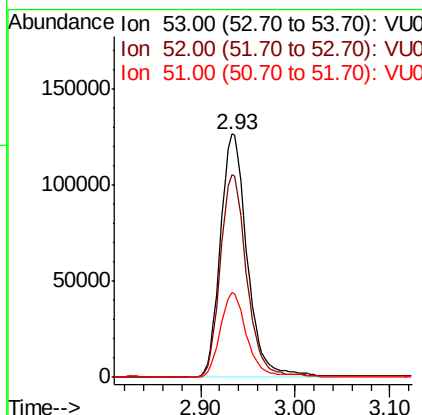
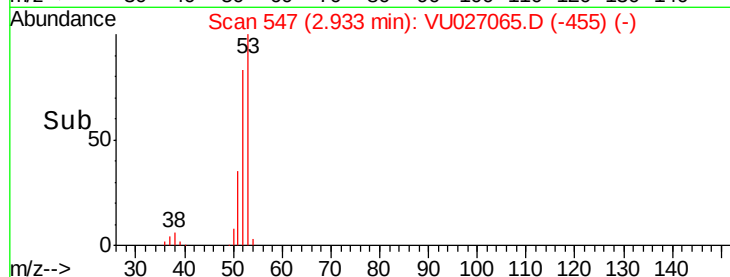
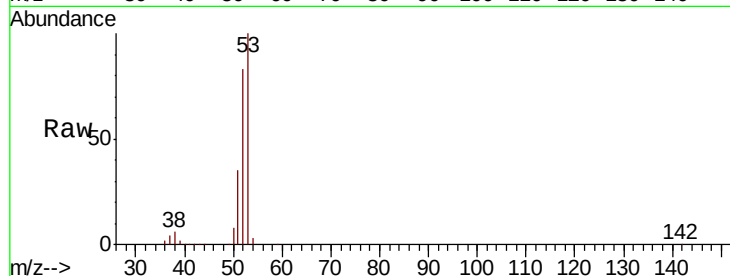
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	250906
Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.7	98.5
51	35.2	27.4	41.2

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM



#16

Acetone

Concen: 285.662 ug/l

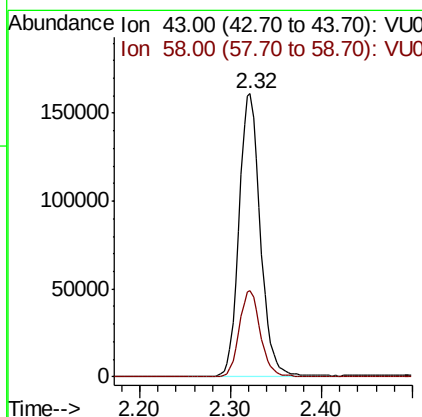
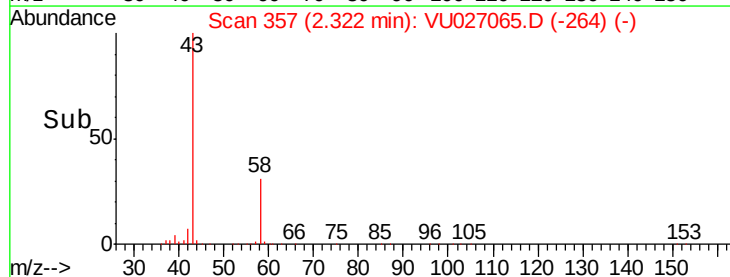
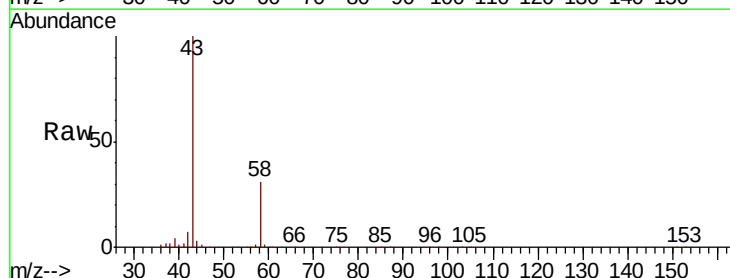
RT: 2.32 min Scan# 357

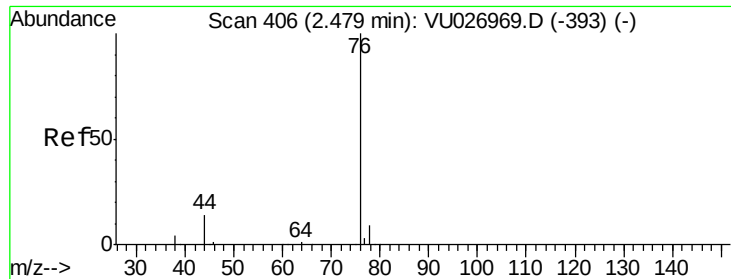
Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Tgt Ion:	43	Resp:	262873
Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.6	36.8





#17

Carbon Disulfide

Concen: 45.410 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 177331

Ion Ratio Lower Upper

76 100

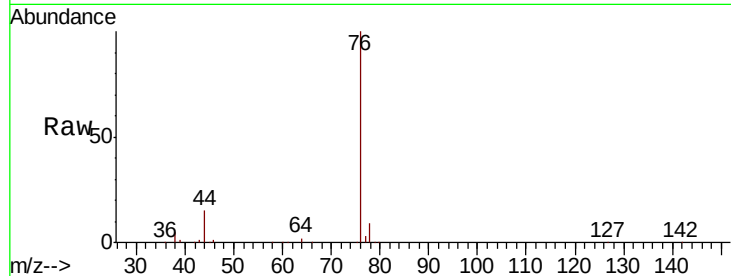
78 9.0 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

9/24/2018 4:40:36 PM



Abundance Ion 75.90 (75.60 to 76.60): VU026969.D (-393) (-)

Ion 77.90 (77.60 to 78.60): VU027065.D (-313) (-)

2.48

120000

100000

80000

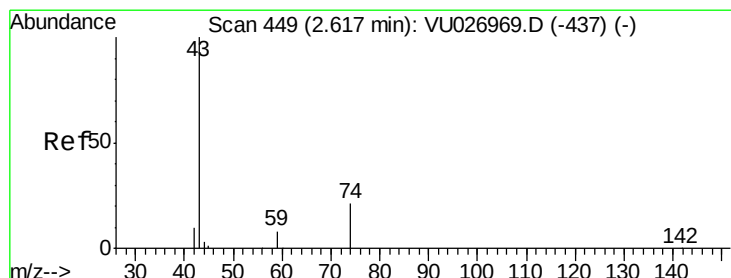
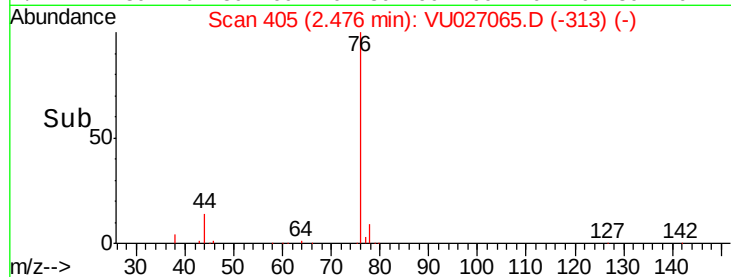
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 50.386 ug/l

RT: 2.61 min Scan# 448

Delta R.T. -0.00 min

Lab File: VU027065.D

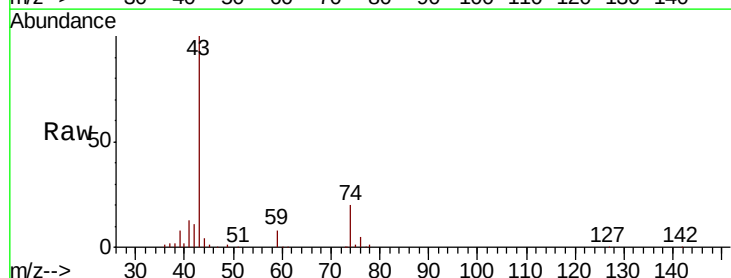
Acq: 23 Sep 2018 12:06

Tgt Ion: 43 Resp: 125277

Ion Ratio Lower Upper

43 100

74 20.3 16.6 25.0



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-437) (-)

Ion 74.00 (73.70 to 74.70): VU027065.D (-356) (-)

2.61

80000

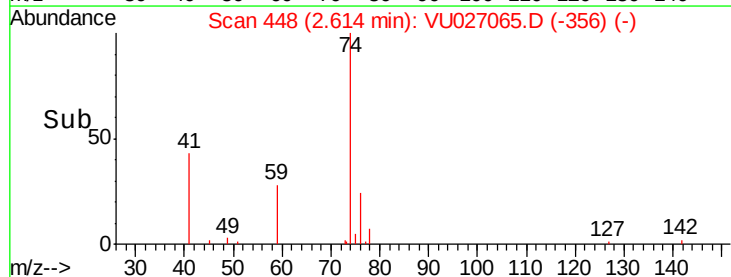
60000

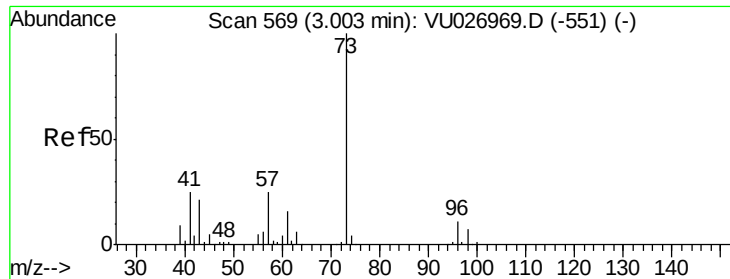
40000

20000

0

Time-->





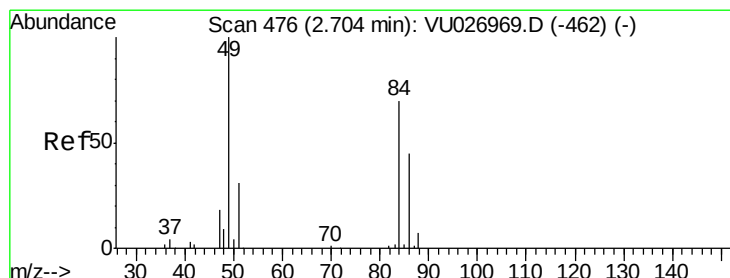
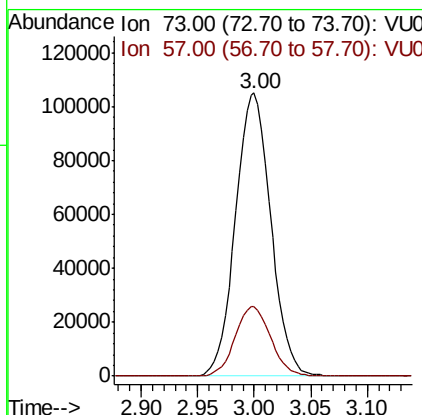
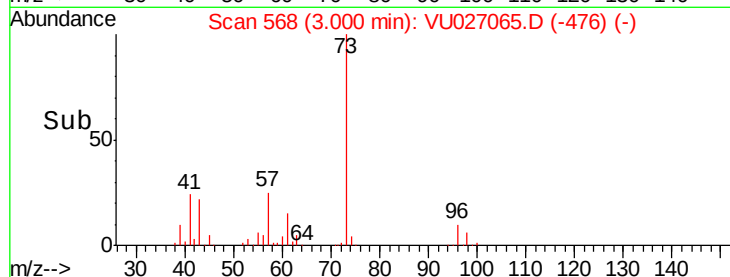
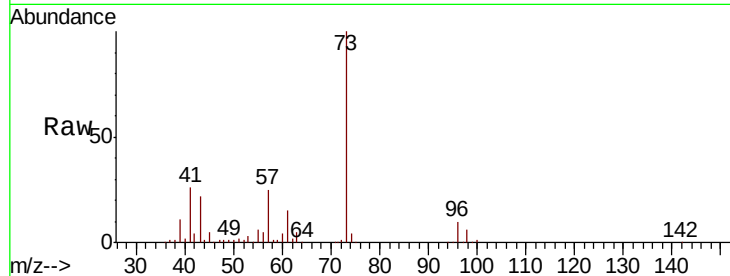
#19
Methyl tert-butyl Ether
Concen: 51.914 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.5	19.8	29.6

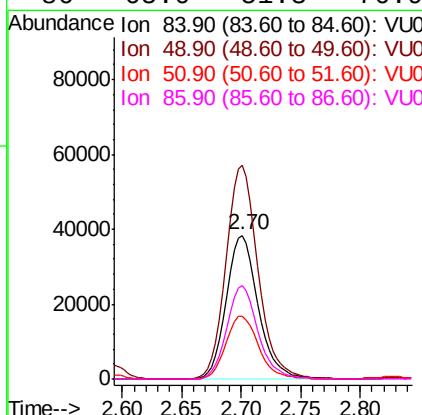
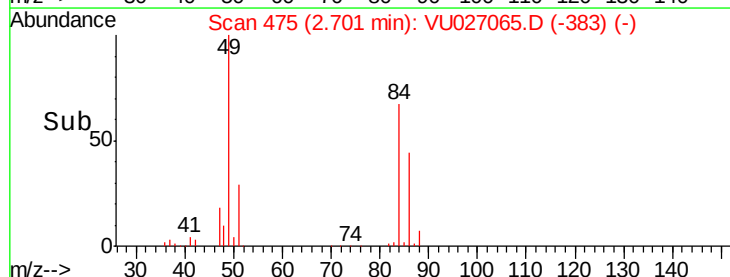
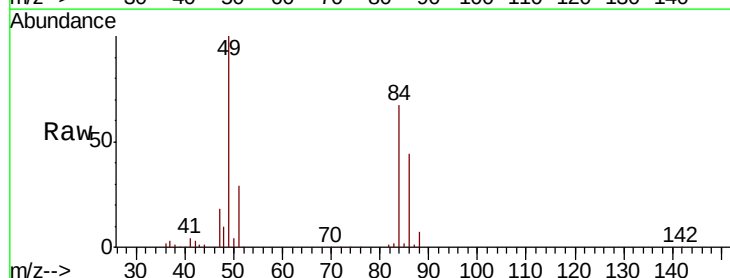
Manual Integrations
APPROVED

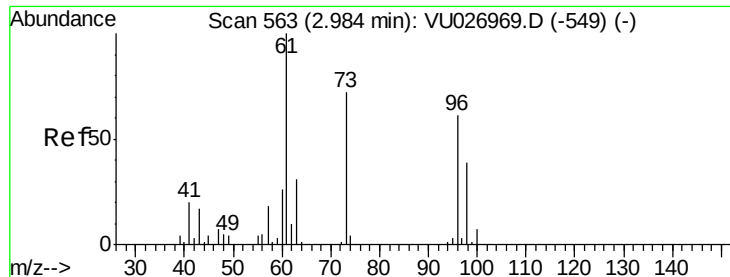
MMDadoda
9/24/2018 4:40:36 PM



#20
Methylene Chloride
Concen: 45.577 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
84	100		
49	148.9	114.9	172.3
51	43.4	35.8	53.8
86	65.0	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 48.181 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 61665

Ion Ratio Lower Upper

96 100

61 166.2 131.8 197.6

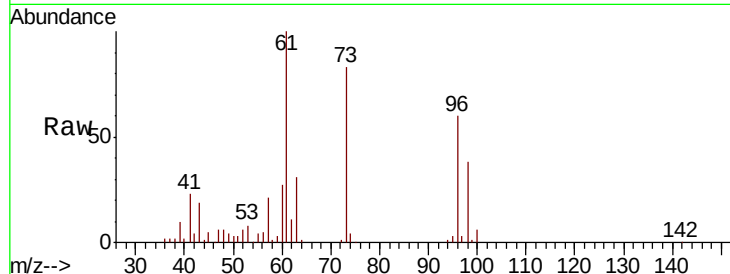
98 62.6 50.9 76.3

Manual Integrations

APPROVED

MMDadoda

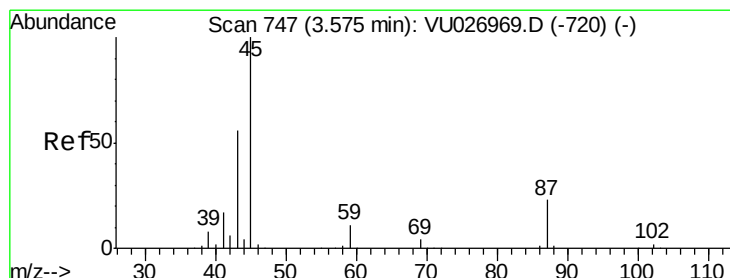
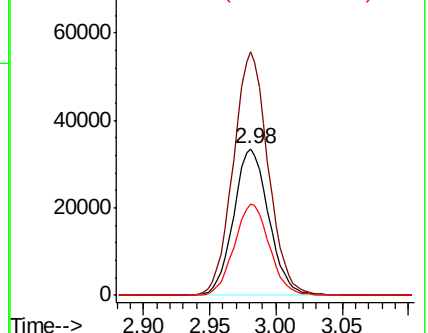
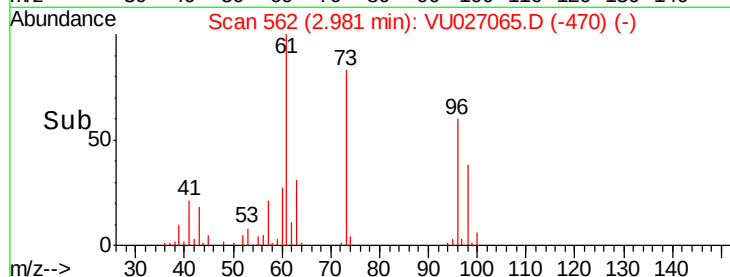
9/24/2018 4:40:36 PM



Abundance Ion 95.90 (95.60 to 96.60): VU026969.D (-549) (-)

Ion 60.90 (60.60 to 61.60): VU026969.D (-549) (-)

Ion 97.90 (97.60 to 98.60): VU026969.D (-549) (-)



#22

Diisopropyl ether

Concen: 54.385 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Tgt Ion: 45 Resp: 282826

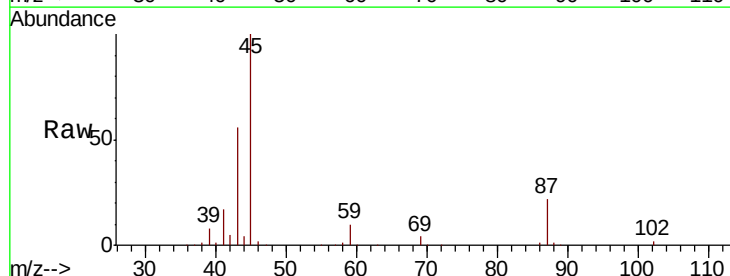
Ion Ratio Lower Upper

45 100

43 54.7 45.8 68.6

87 22.0 18.6 28.0

59 10.4 9.0 13.4

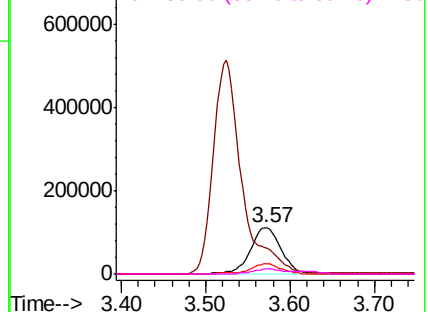
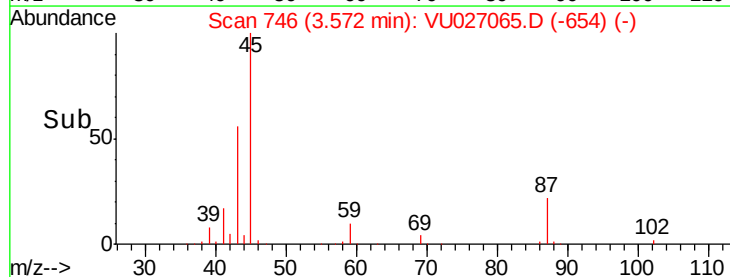


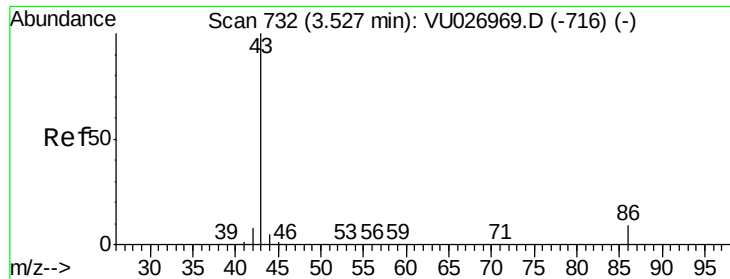
Abundance Ion 45.00 (44.70 to 45.70): VU026969.D (-720) (-)

Ion 43.00 (42.70 to 43.70): VU026969.D (-720) (-)

Ion 87.00 (86.70 to 87.70): VU026969.D (-720) (-)

Ion 59.00 (58.70 to 59.70): VU026969.D (-720) (-)





#23

Vinyl Acetate

Concen: 273.473 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1212290

Ion Ratio Lower Upper

43 100

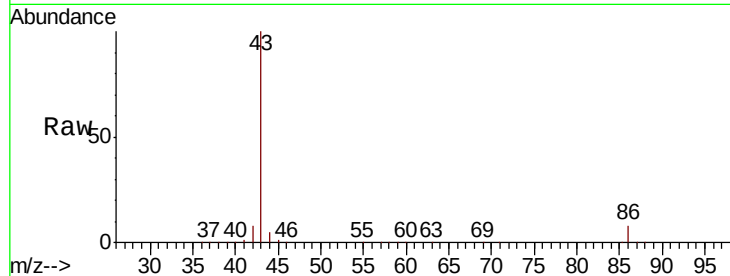
86 8.2 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

9/24/2018 4:40:36 PM

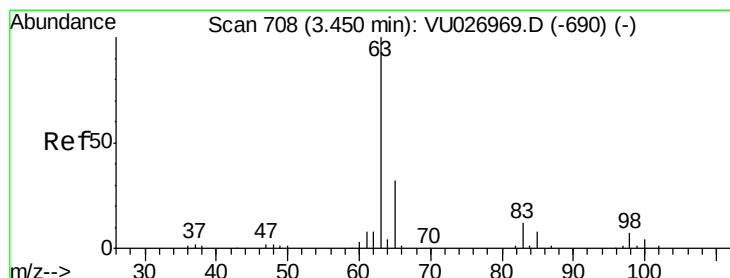
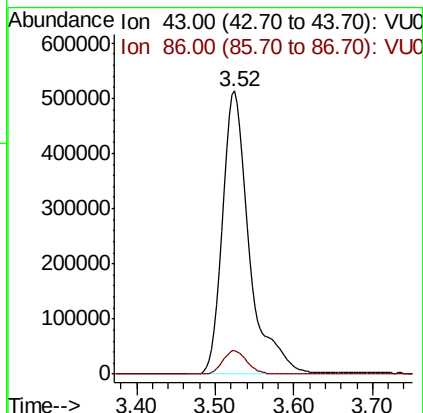
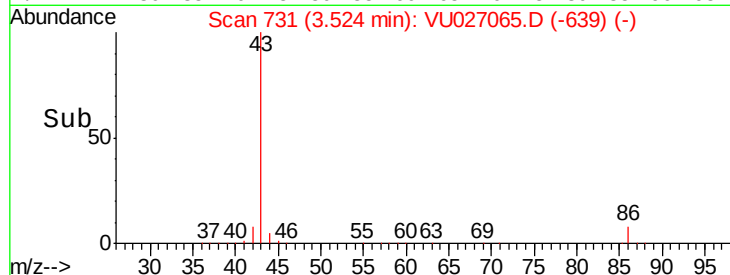


Abundance Ion 43.00 (42.70 to 43.70): VU027065.D (-639) (-)

Ion 86.00 (85.70 to 86.70): VU027065.D (-639) (-)

3.52

Time-->



#24

1,1-Dichloroethane

Concen: 49.376 ug/l

RT: 3.44 min Scan# 706

Delta R.T. -0.01 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

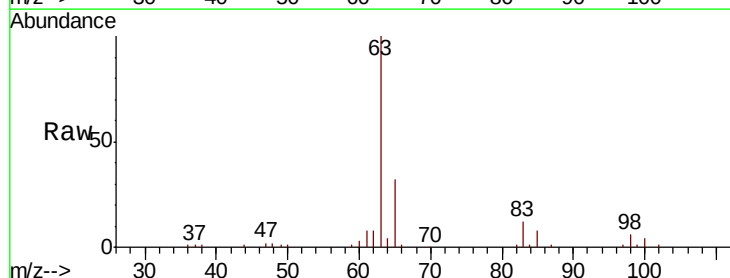
Tgt Ion: 63 Resp: 141421

Ion Ratio Lower Upper

63 100

98 5.9 3.3 9.8

100 4.0 2.0 5.8



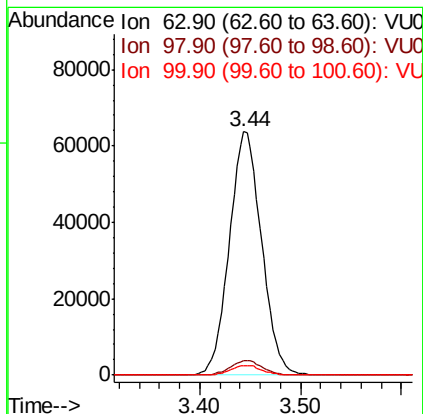
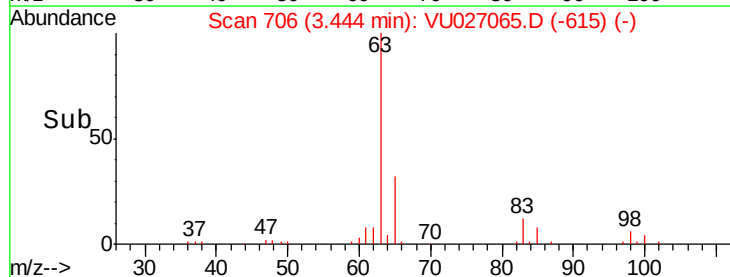
Abundance Ion 62.90 (62.60 to 63.60): VU027065.D (-615) (-)

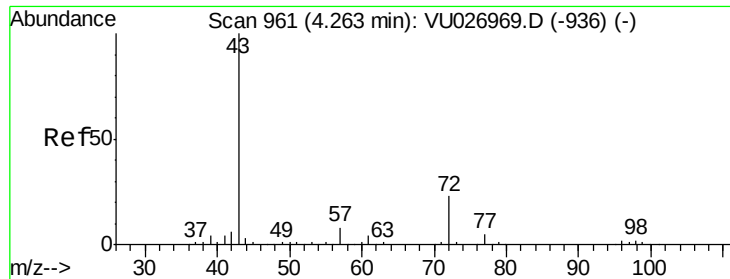
Ion 97.90 (97.60 to 98.60): VU027065.D (-615) (-)

Ion 99.90 (99.60 to 100.60): VU027065.D (-615) (-)

3.44

Time-->





#25

2-Butanone

Concen: 256.643 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 376760

Ion Ratio Lower Upper

43 100

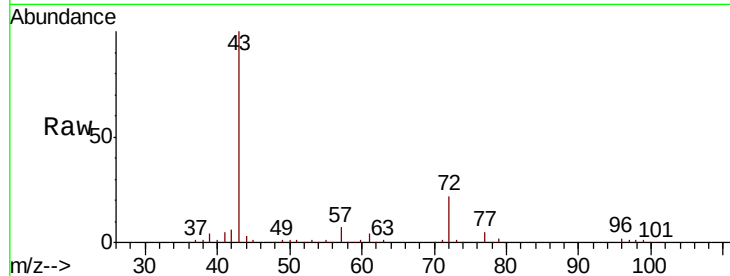
72 22.4 18.4 27.6

Manual Integrations

APPROVED

MMDadoda

9/24/2018 4:40:36 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

150000

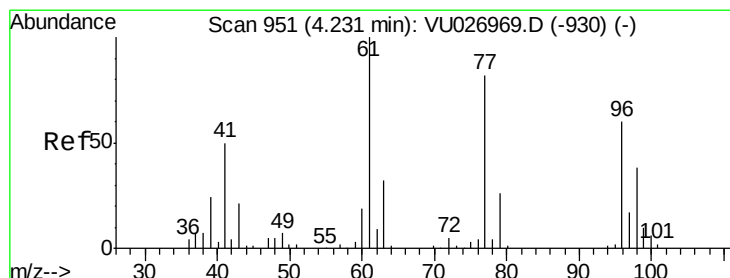
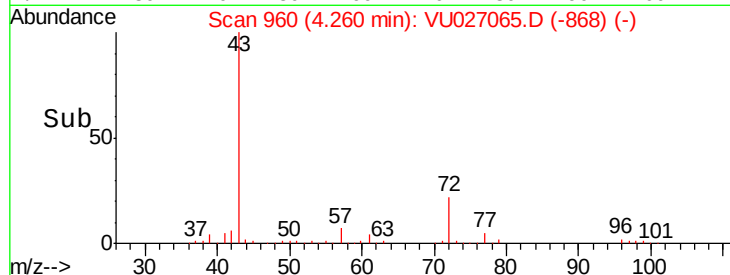
100000

50000

0

4.20 4.30

Time-->



#26

2,2-Dichloropropane

Concen: 50.443 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU027065.D

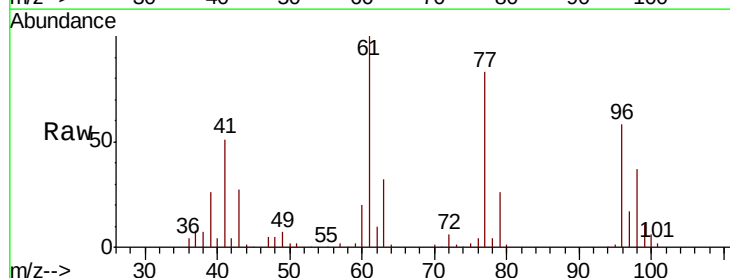
Acq: 23 Sep 2018 12:06

Tgt Ion: 77 Resp: 112675

Ion Ratio Lower Upper

77 100

97 20.8 10.5 31.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

40000

30000

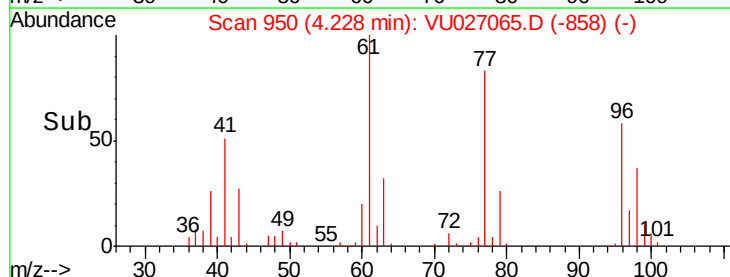
20000

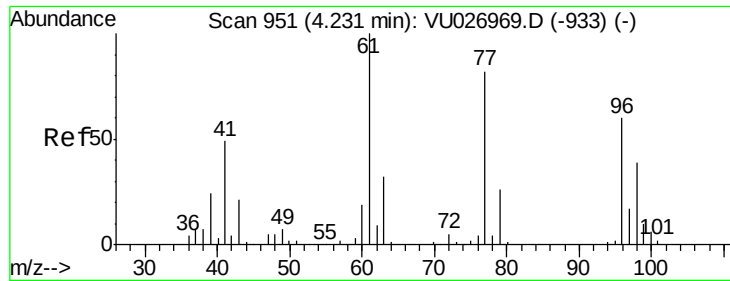
10000

0

4.10 4.20 4.30

Time-->





#27

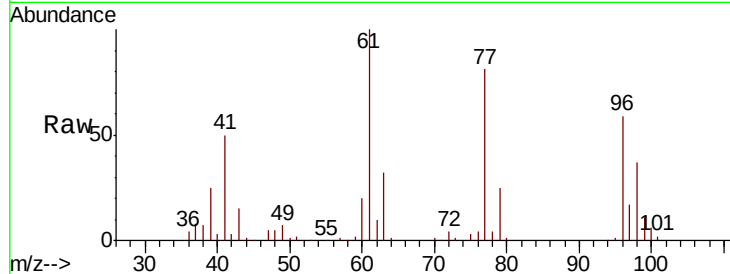
cis-1,2-Dichloroethene
Concen: 50.136 ug/l
RT: 4.23 min Scan# 949
Delta R.T. -0.01 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

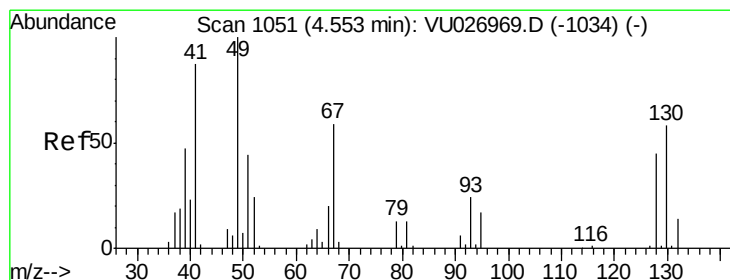
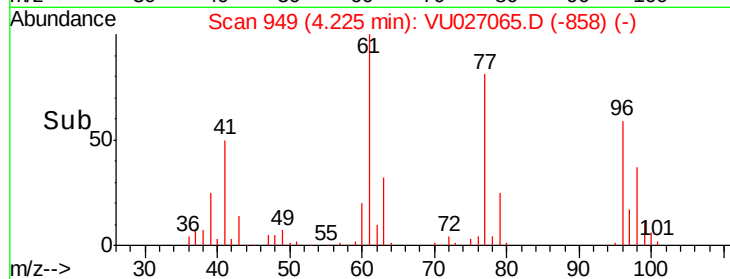
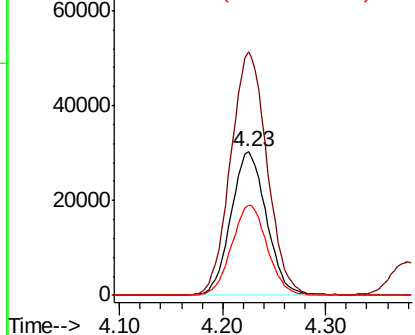
Tot Ion	Ratio	Lower	Upper
96	100		
61	174.1	0.0	337.2
98	62.7	0.0	127.6

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM



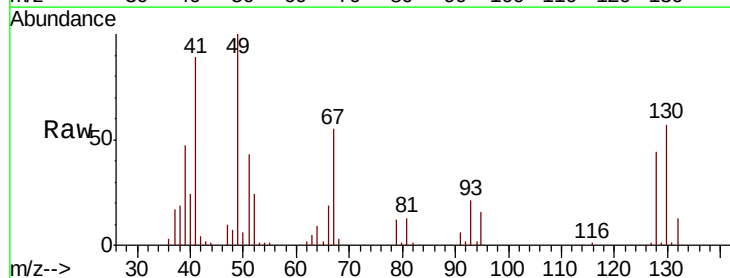
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



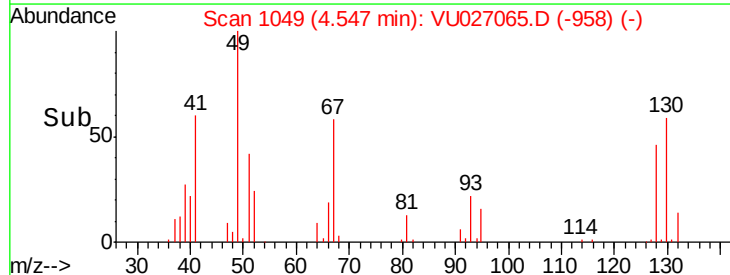
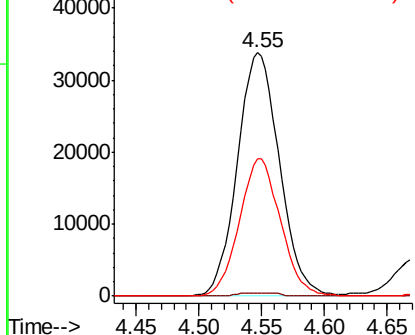
#28

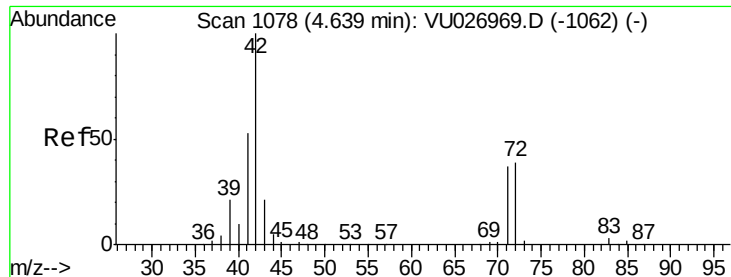
Bromochloromethane
Concen: 57.122 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.0
130	55.2	47.8	71.8



Abundance Ion 48.90 (48.60 to 49.60): VU0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





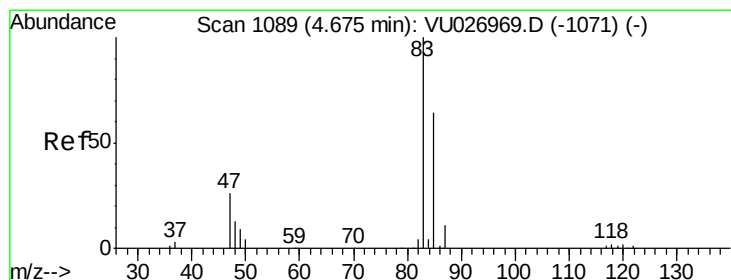
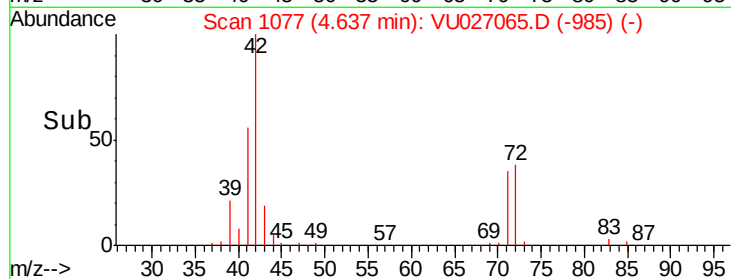
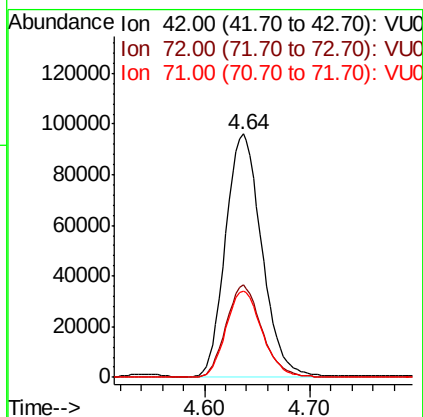
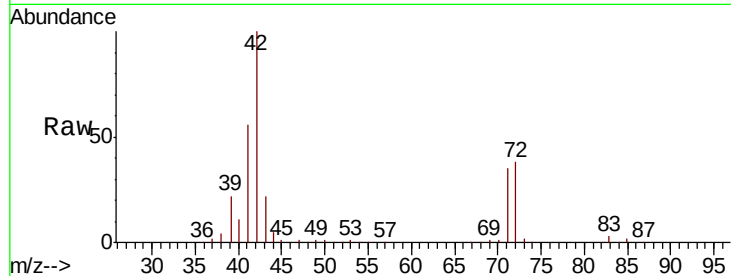
#29
Tetrahydrofuran
Concen: 256.758 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.7	31.7	47.5
71	35.5	29.6	44.4

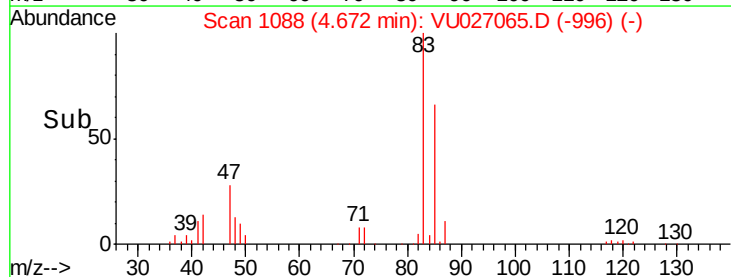
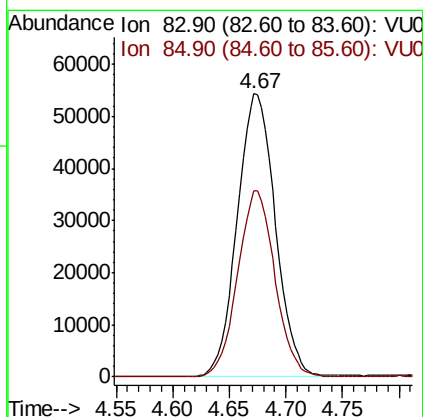
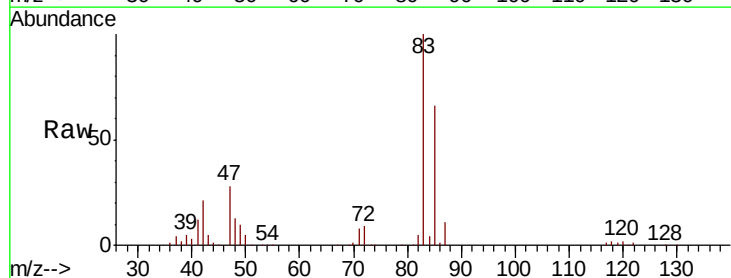
Manual Integrations
APPROVED

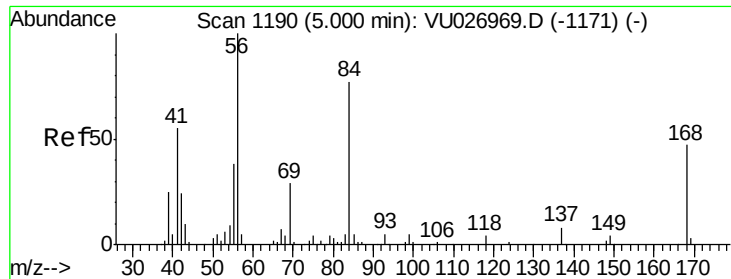
MMDadoda
9/24/2018 4:40:36 PM



#30
Chloroform
Concen: 48.034 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.5	77.3





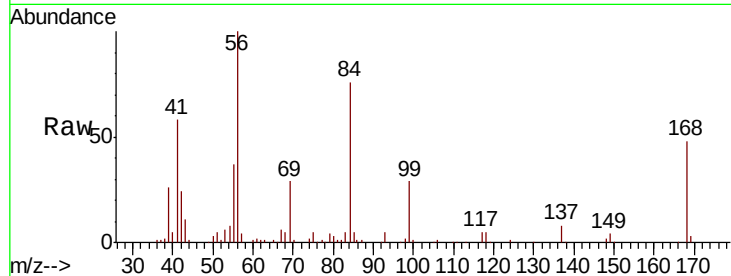
#31
Cyclohexane
Concen: 50.978 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion:	56	Resp:	132696
Ion Ratio	Lower	Upper	
56	100		
69	29.1	23.0	34.4
84	75.6	61.4	92.2

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM

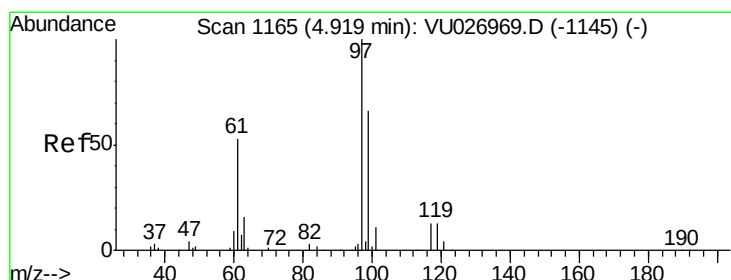
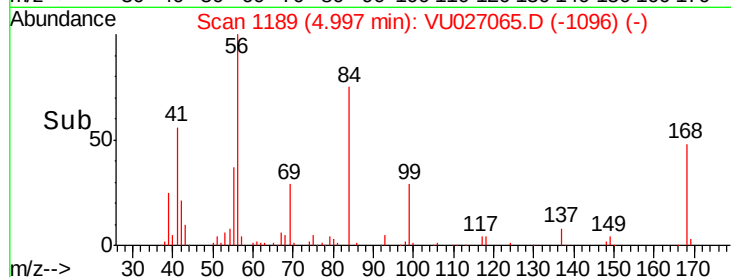
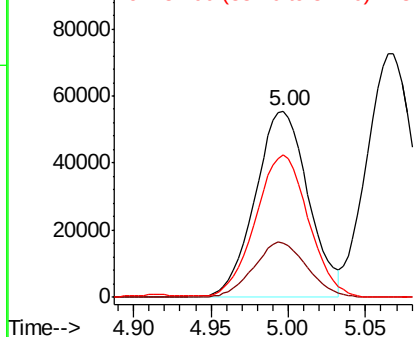


Abundance

Ion 56.00 (55.70 to 56.70): VU0

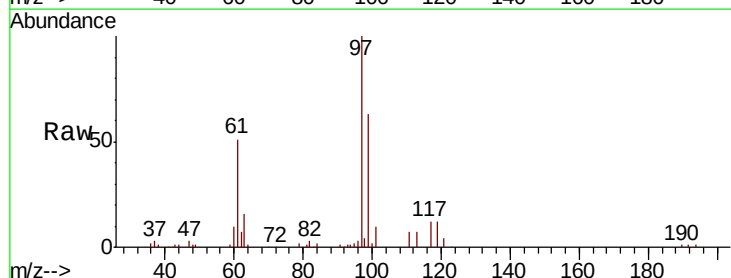
Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#32
1,1,1-Trichloroethane
Concen: 49.664 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion:	97	Resp:	105422
Ion Ratio	Lower	Upper	
97	100		
99	64.1	51.8	77.6
61	51.0	41.1	61.7

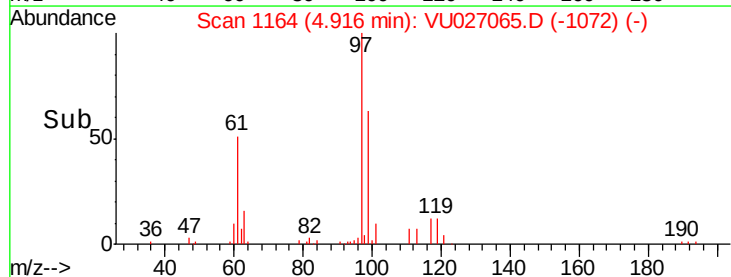
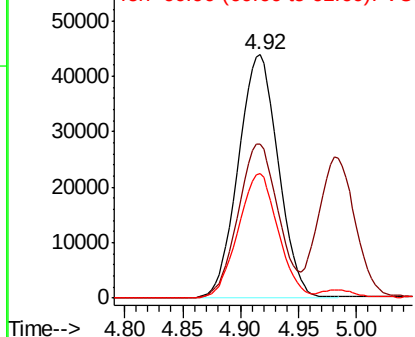


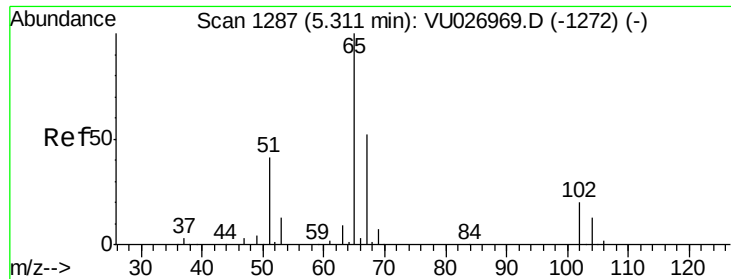
Abundance

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





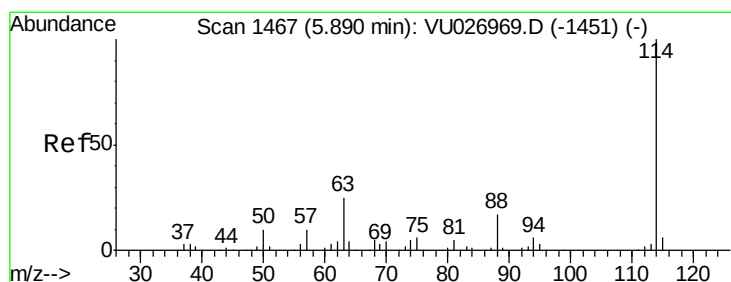
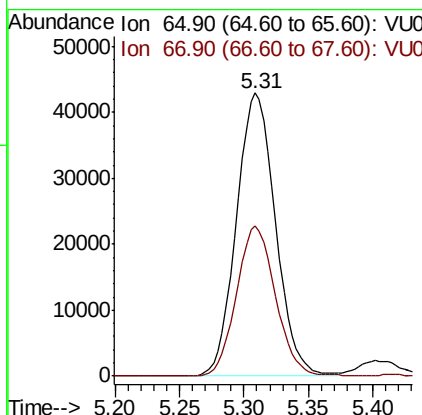
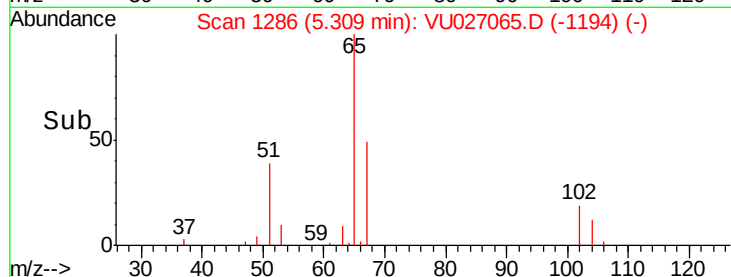
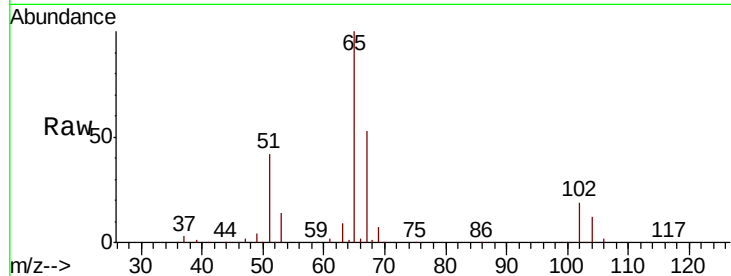
#33
 1,2-Dichloroethane-d4
 Concen: 51.889 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	105.6

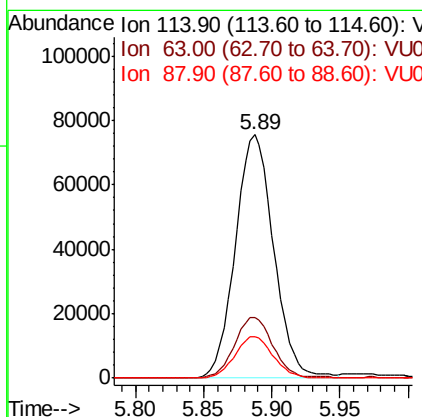
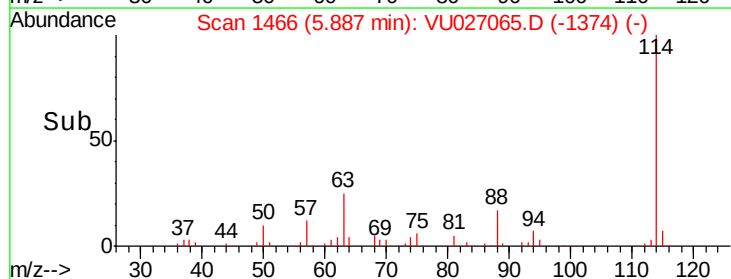
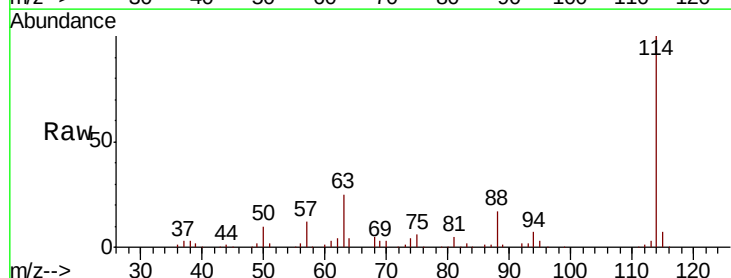
Manual Integrations
 APPROVED

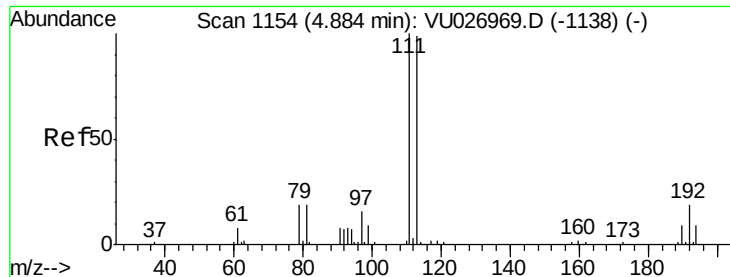
MMDadoda
 9/24/2018 4:40:36 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.1	0.0	49.2
88	17.2	0.0	33.8





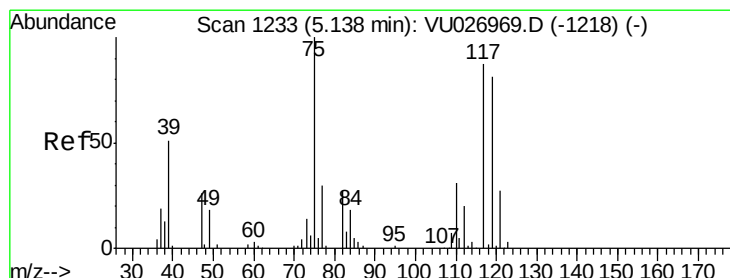
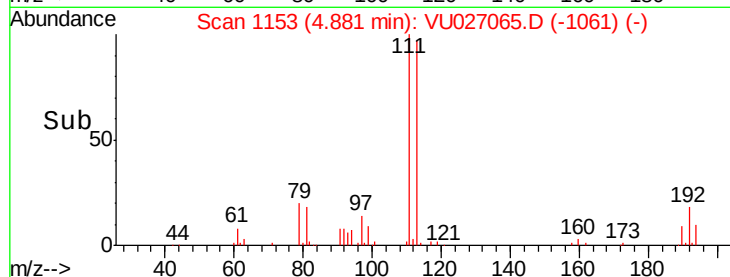
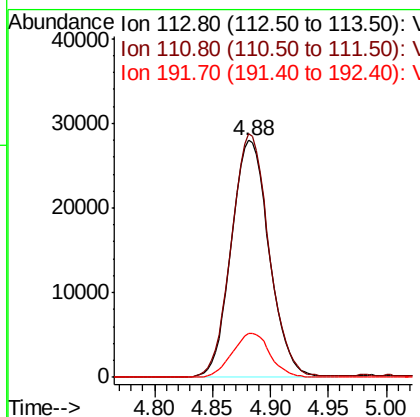
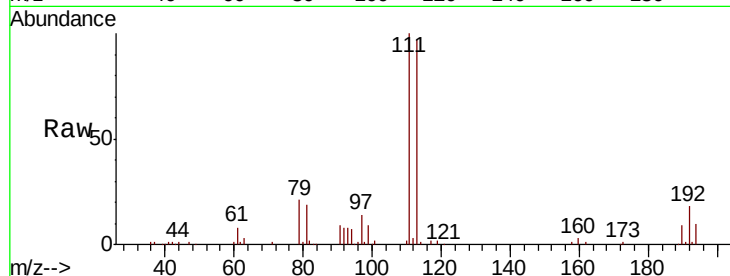
#35
 Dibromofluoromethane
 Concen: 49.608 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	18.4	15.2	22.8

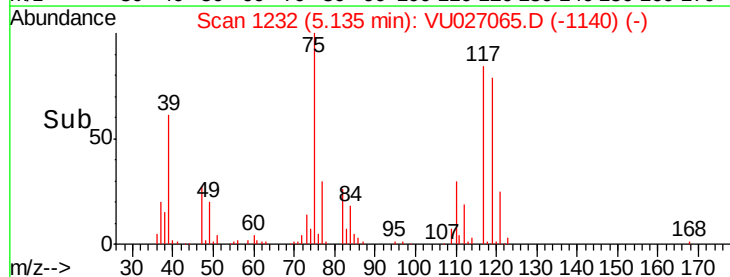
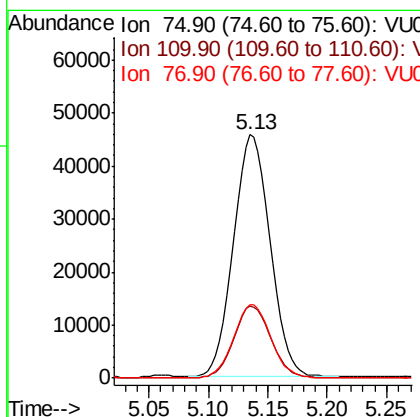
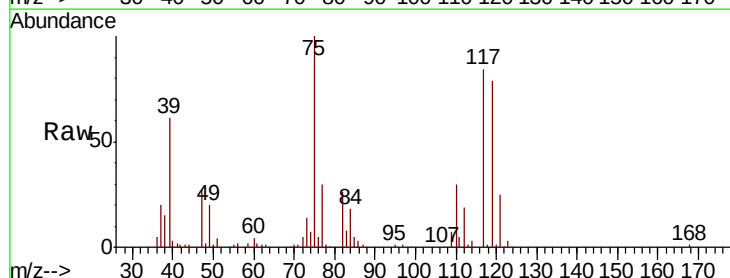
Manual Integrations
 APPROVED

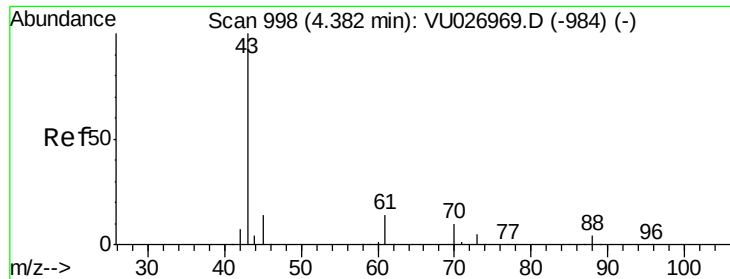
MMDadoda
 9/24/2018 4:40:36 PM



#36
 1,1-Dichloropropene
 Concen: 49.686 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	30.1	16.1	48.2
77	30.8	24.6	36.8





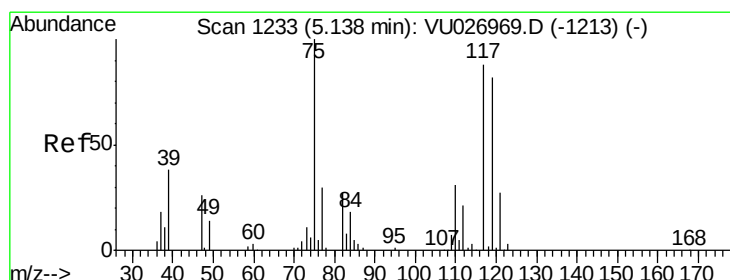
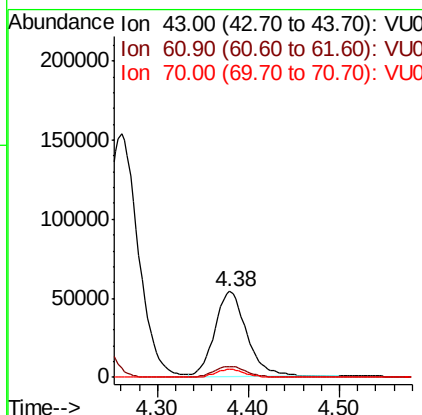
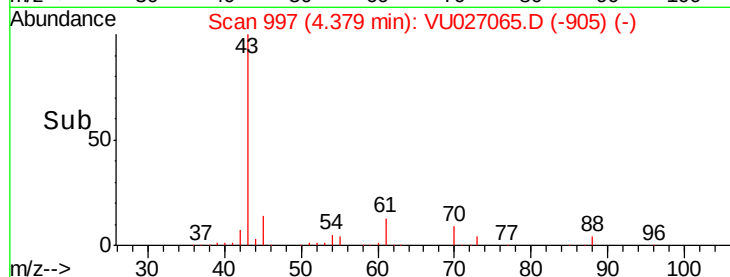
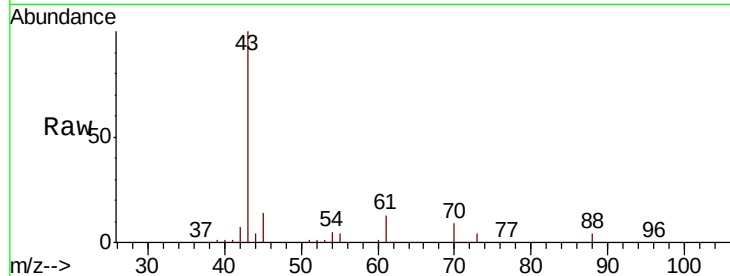
#37
Ethyl Acetate
Concen: 49.200 ug/l
RT: 4.38 min Scan# 997
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.5	15.7
70	8.7	7.4	11.0

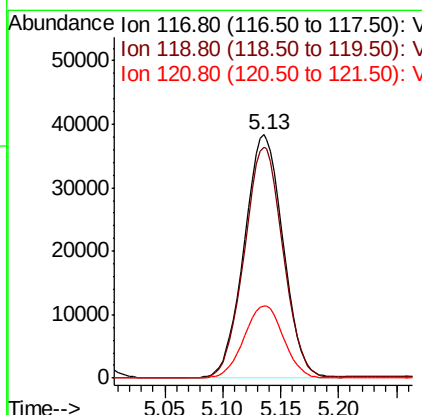
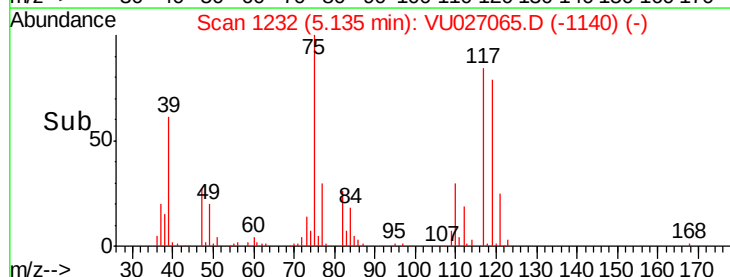
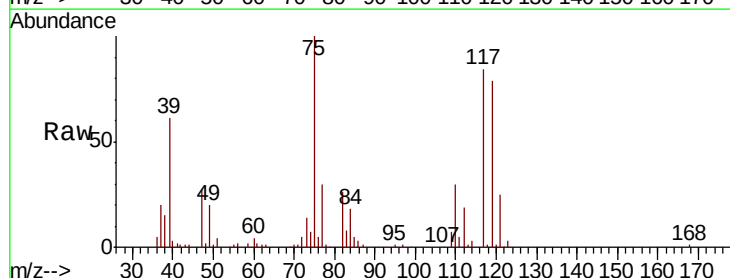
Manual Integrations
APPROVED

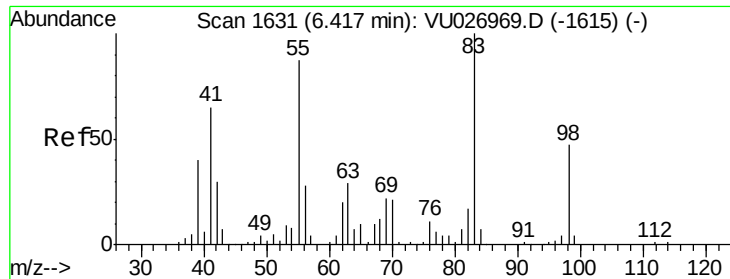
MMDadoda
9/24/2018 4:40:36 PM



#38
Carbon Tetrachloride
Concen: 47.911 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	74.4	111.6
121	29.5	24.2	36.4





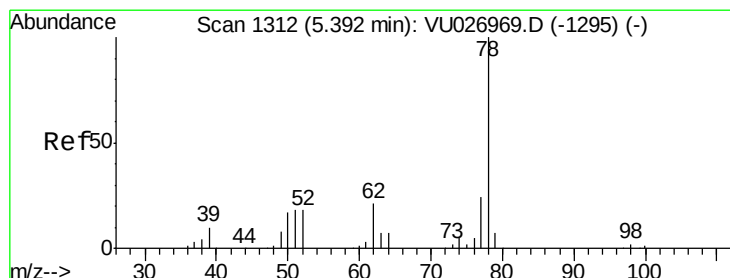
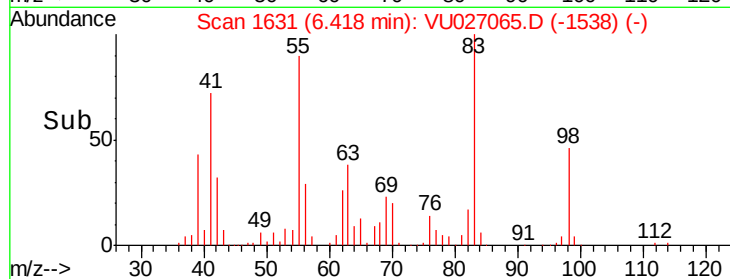
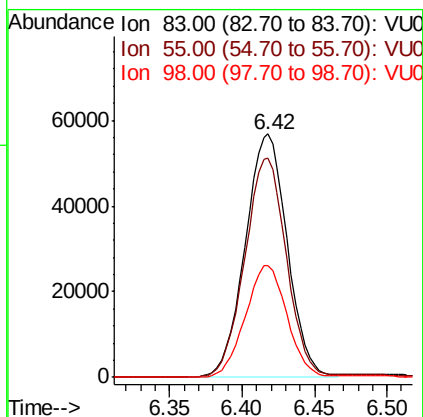
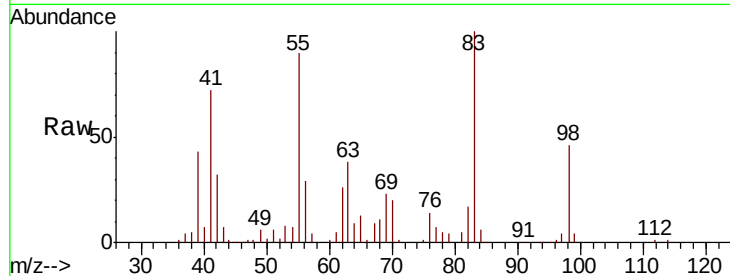
#39
Methylvlcyclohexane
Concen: 53.547 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.2	69.9	104.9
98	46.1	37.5	56.3

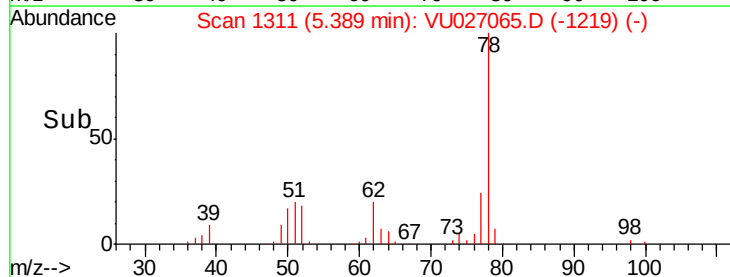
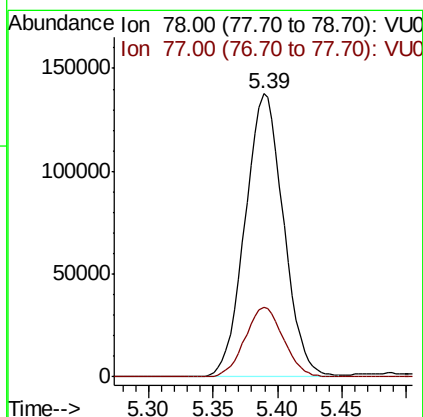
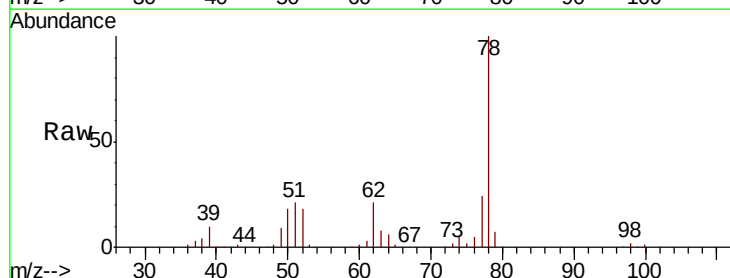
Manual Integrations
APPROVED

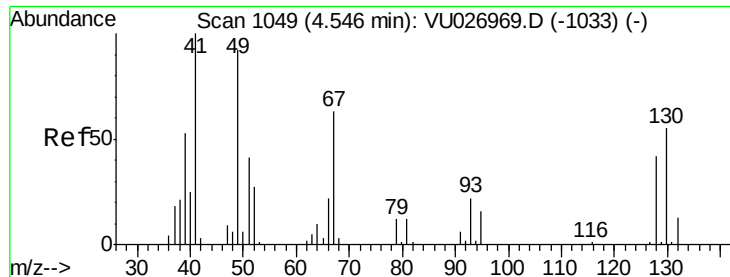
MMDadoda
9/24/2018 4:40:36 PM



#40
Benzene
Concen: 47.845 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.4	29.0





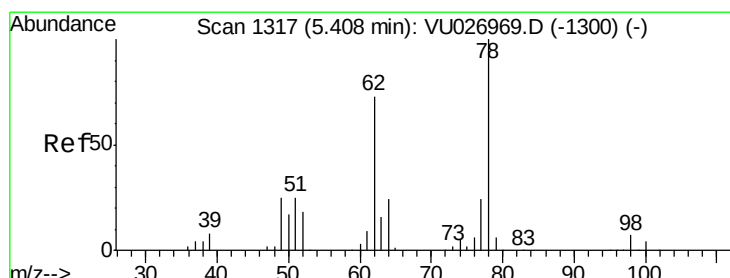
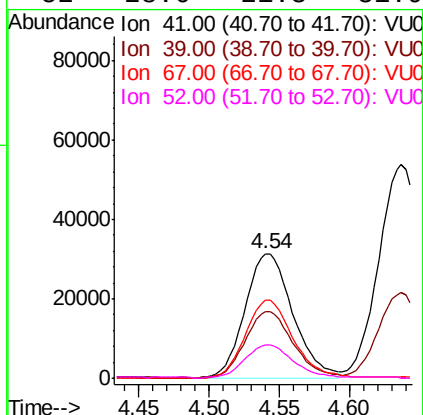
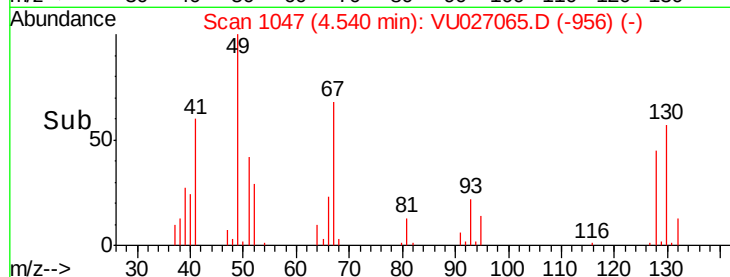
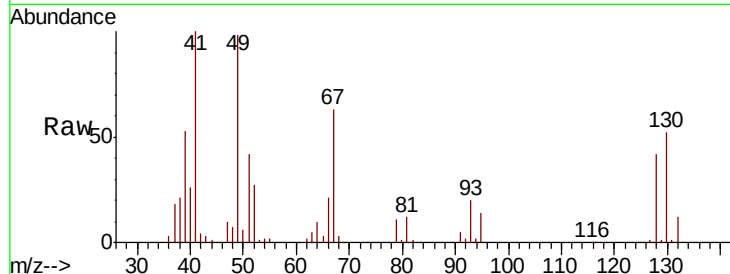
#41
Methacrylonitrile
Concen: 53.384 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. -0.01 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.4	42.9	64.3	
67	63.3	52.4	78.6	
52	28.6	21.3	31.9	

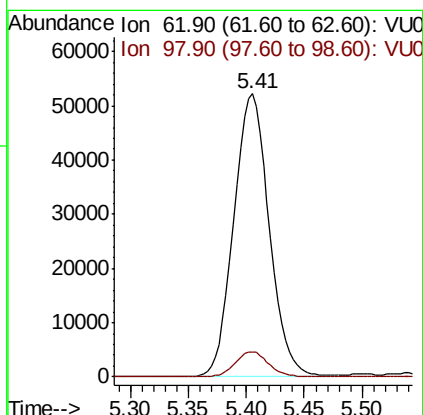
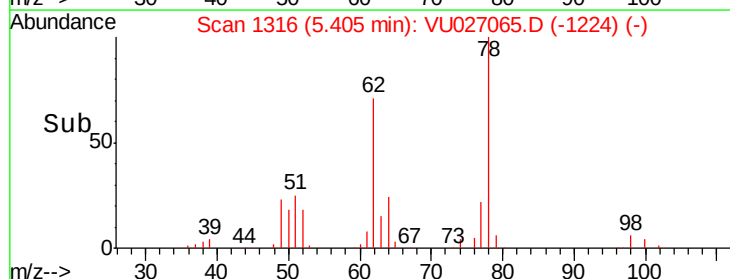
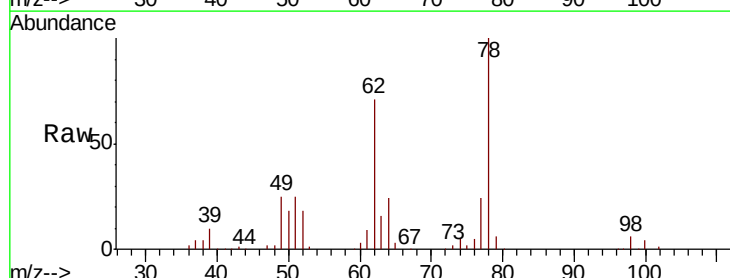
Manual Integrations
APPROVED

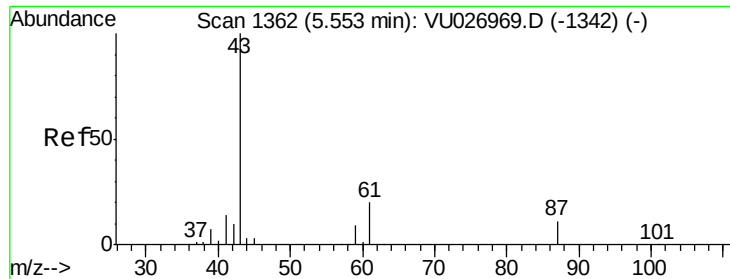
MMDadoda
9/24/2018 4:40:36 PM



#42
1,2-Dichloroethane
Concen: 49.063 ug/l
RT: 5.41 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	17.0	





#43

Isopropyl Acetate

Concen: 52.318 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

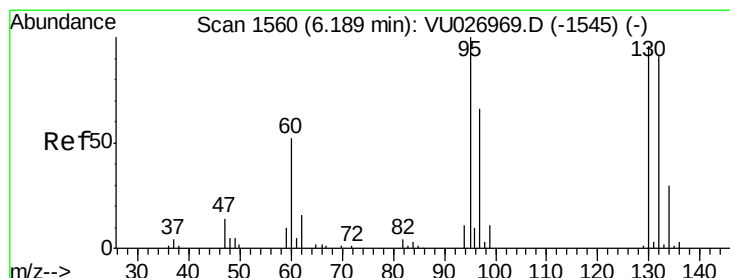
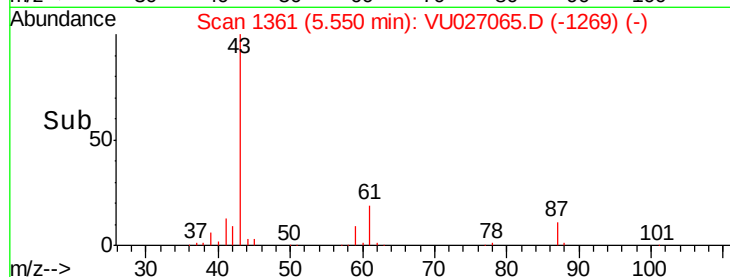
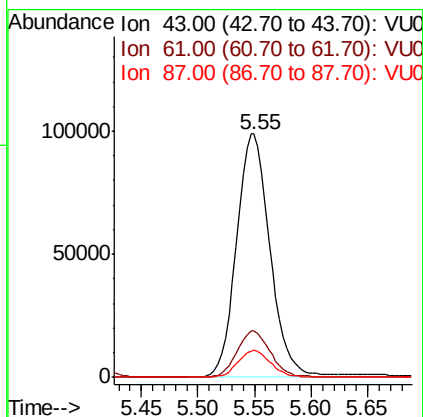
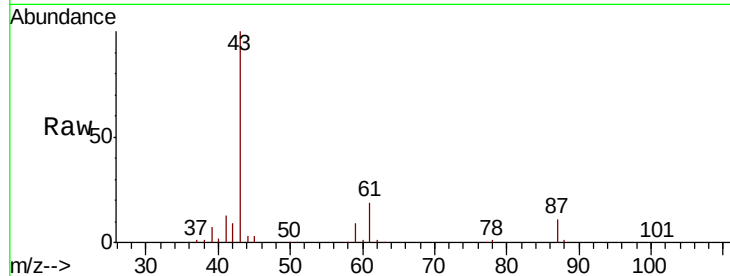
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	203433
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.7	23.5
87	10.9	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM



#44

Trichloroethene

Concen: 48.150 ug/l

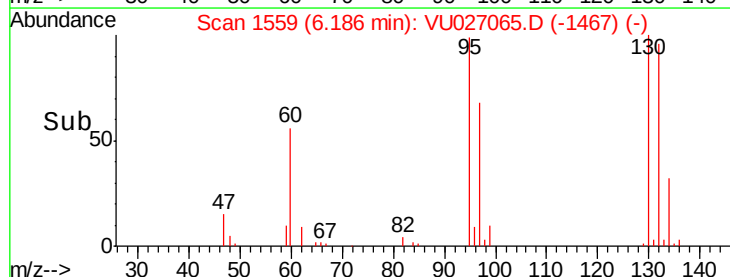
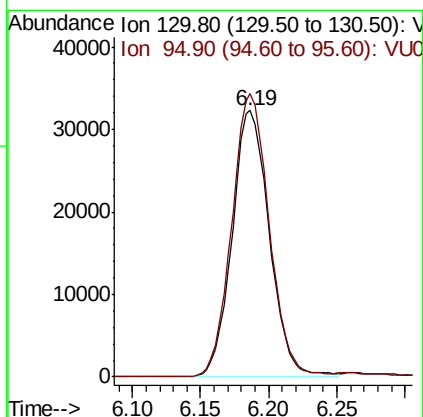
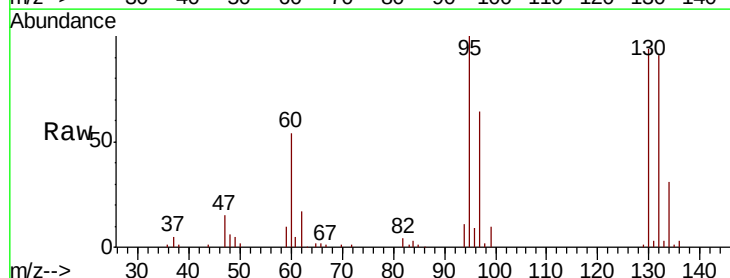
RT: 6.19 min Scan# 1559

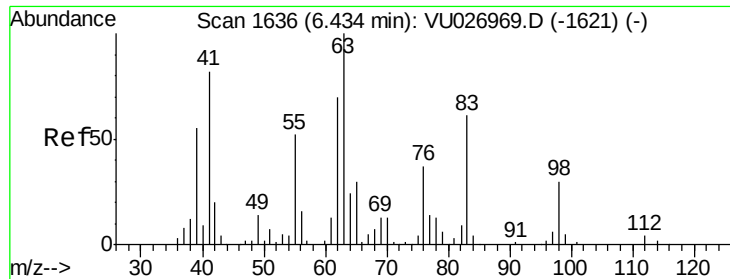
Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Tgt Ion:	130	Resp:	61375
Ion	Ratio	Lower	Upper
130	100		
95	106.2	0.0	208.8





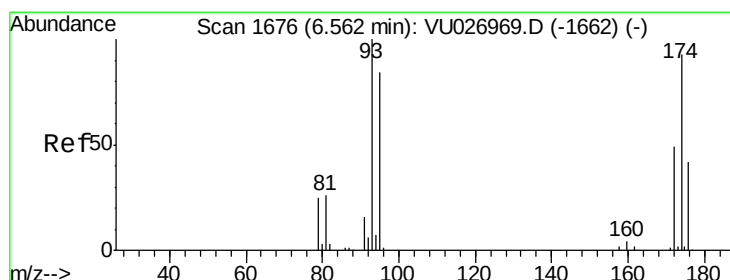
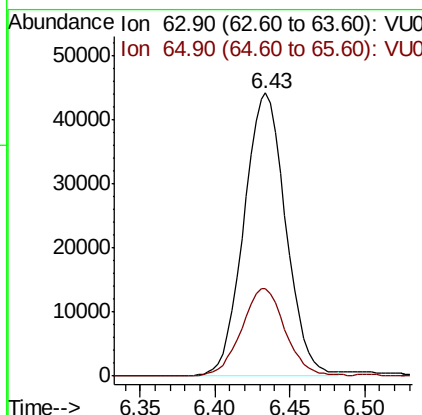
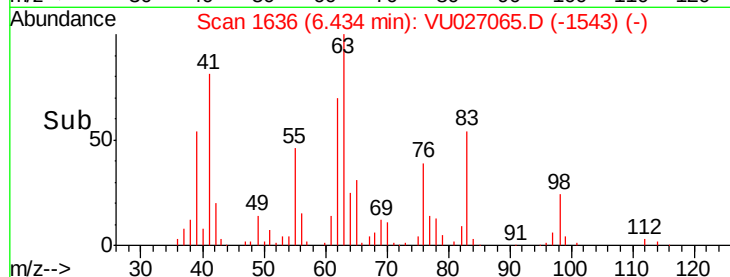
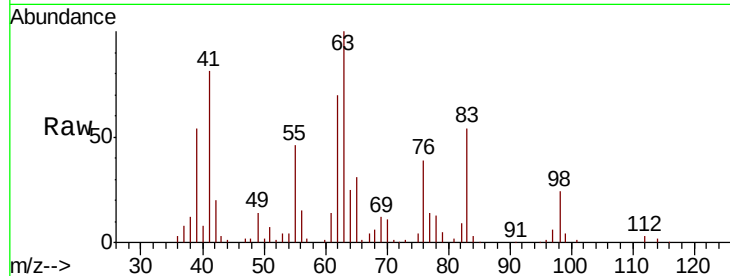
#45
 1,2-Dichloropropane
 Concen: 50.357 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.3	36.5

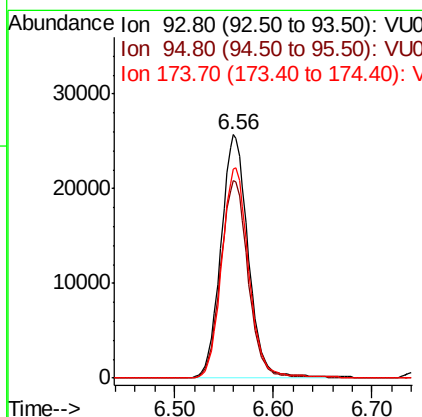
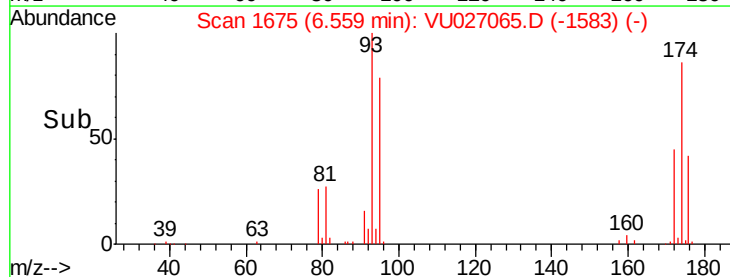
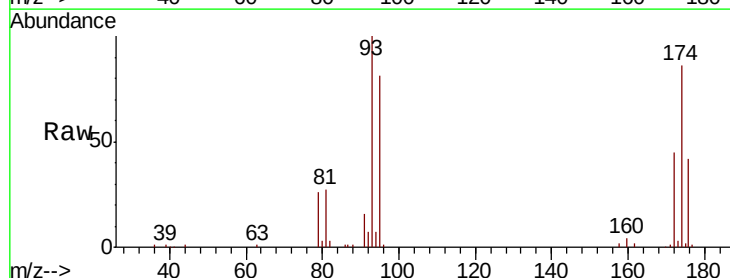
Manual Integrations
 APPROVED

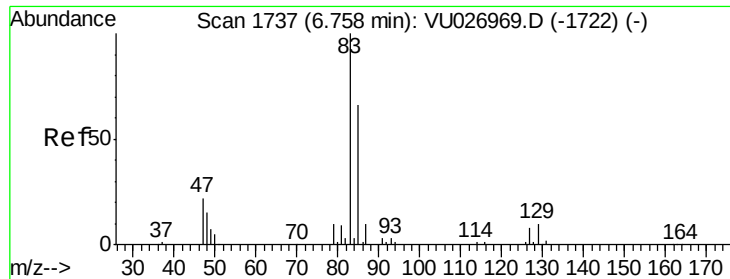
MMDadoda
 9/24/2018 4:40:36 PM



#46
 Dibromomethane
 Concen: 48.406 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.6	66.2	99.4
174	86.0	71.7	107.5





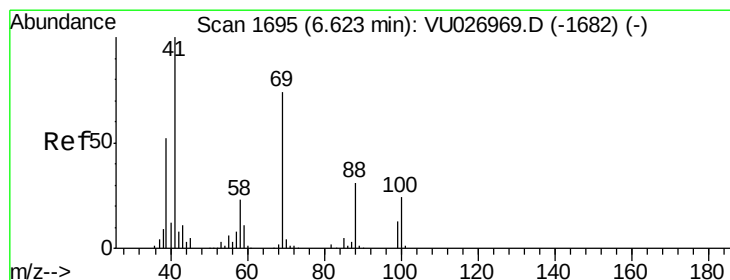
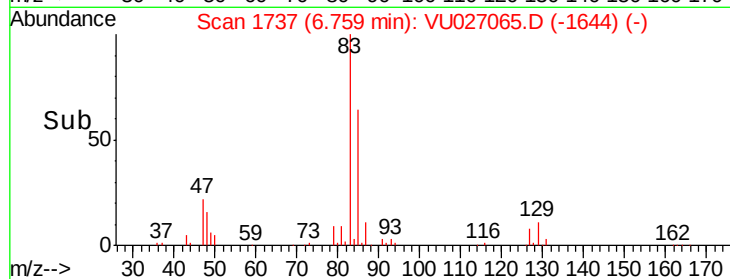
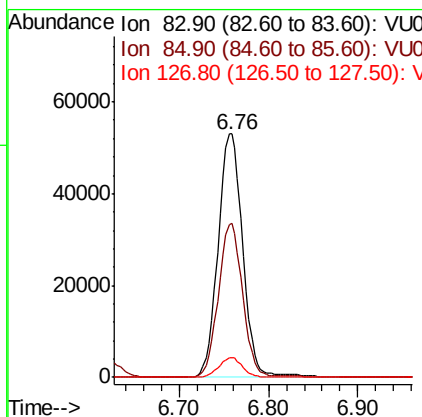
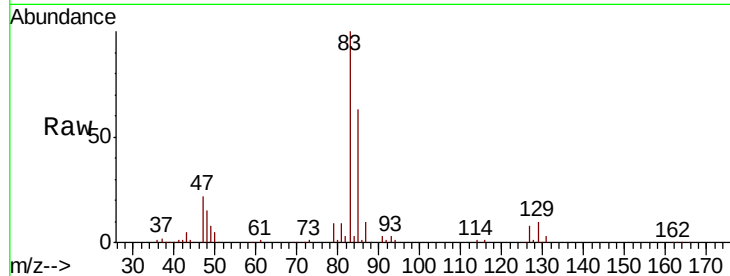
#47
Bromodichloromethane
Concen: 48.582 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	101216
Ion Ratio	100	Lower	Upper
83	100		
85	63.1	52.5	78.7
127	8.3	6.3	9.5

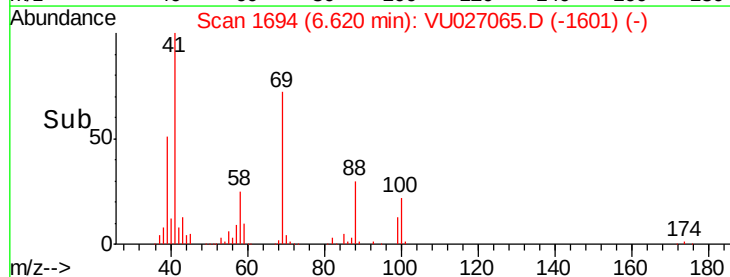
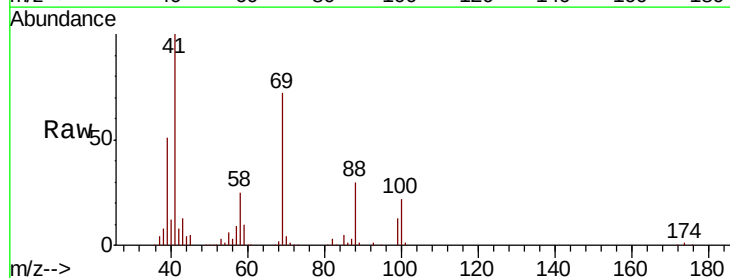
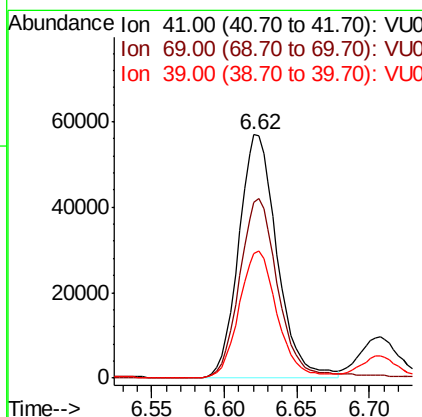
Manual Integrations
APPROVED

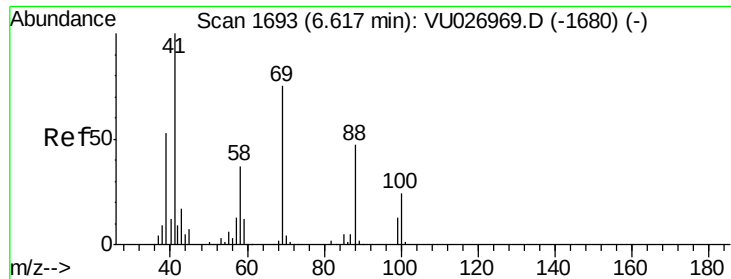
MMDadoda
9/24/2018 4:40:36 PM



#48
Methyl methacrylate
Concen: 49.262 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	41	Resp	104225
Ion Ratio	100	Lower	Upper
41	100		
69	75.9	60.6	90.8
39	52.3	42.8	64.2





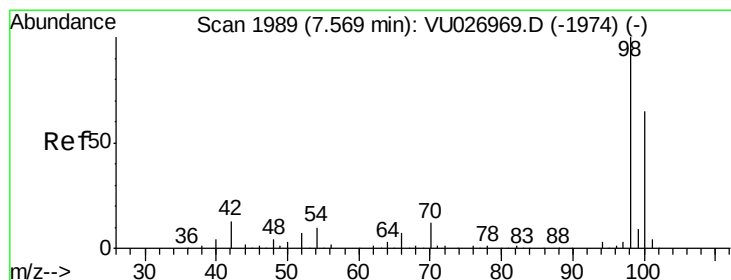
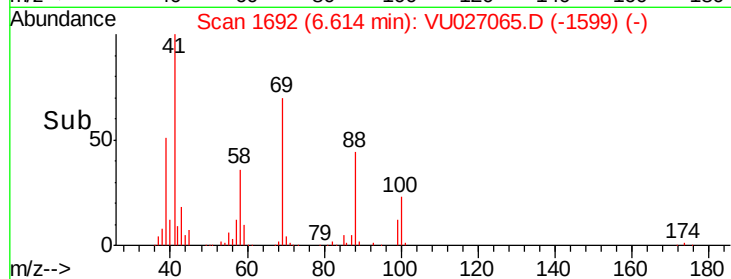
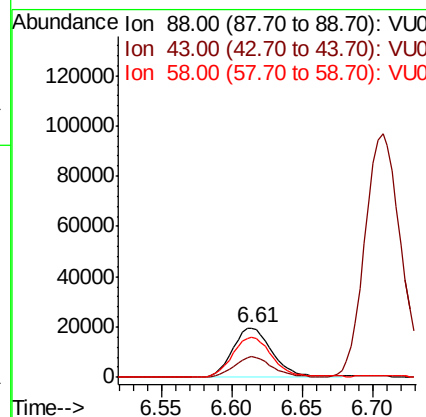
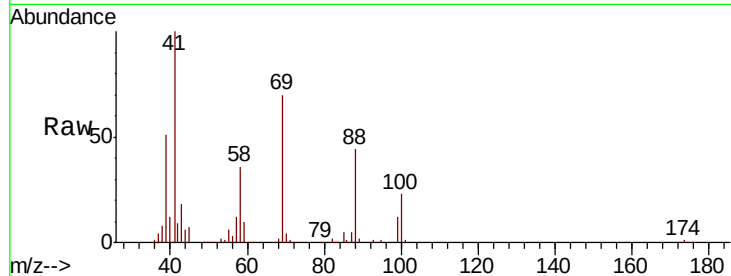
#49
1,4-Dioxane
Concen: 926.317 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.3	29.8	44.8
58	81.4	63.9	95.9

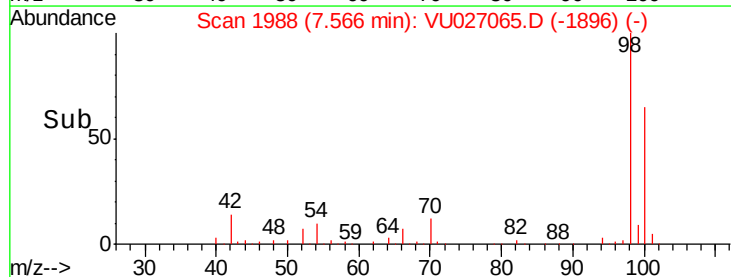
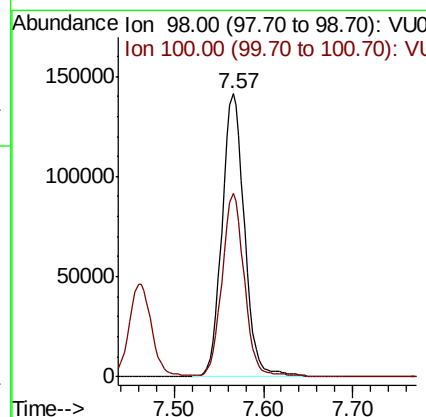
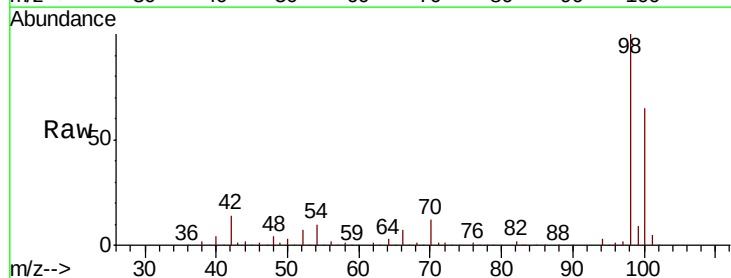
Manual Integrations
APPROVED

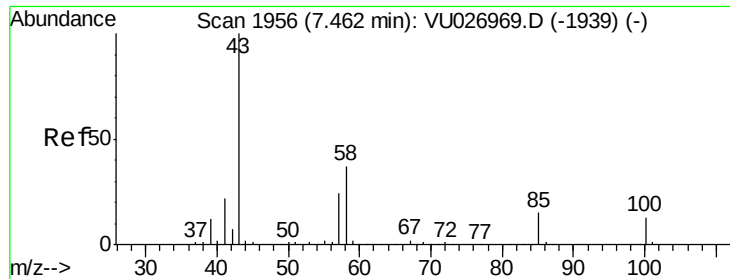
MMDadoda
9/24/2018 4:40:36 PM



#50
Toluene-d8
Concen: 50.616 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 263.478 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 689046

Ion Ratio Lower Upper

43 100

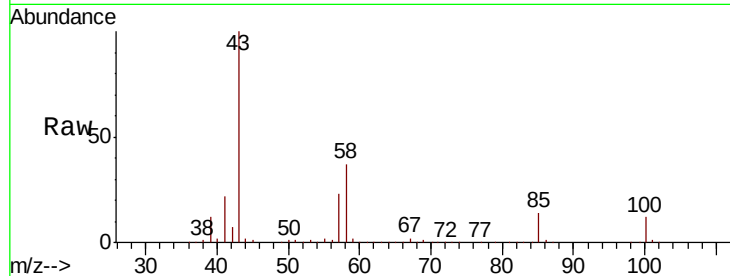
58 36.9 29.8 44.6

Manual Integrations

APPROVED

MMDadoda

9/24/2018 4:40:36 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

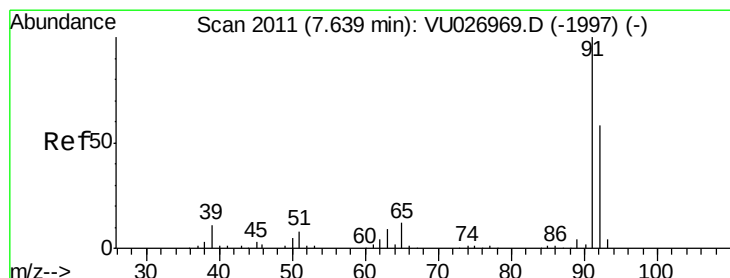
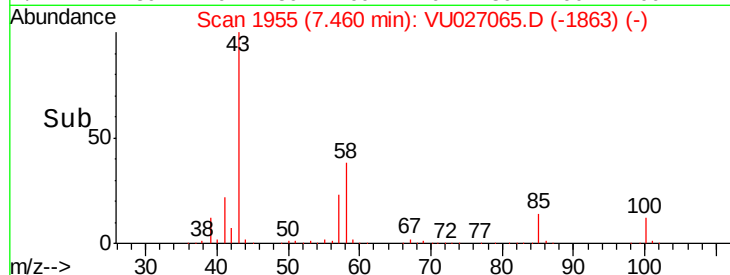
300000

200000

100000

0

Time--> 7.30 7.40 7.50 7.60



#52

Toluene

Concen: 50.770 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU027065.D

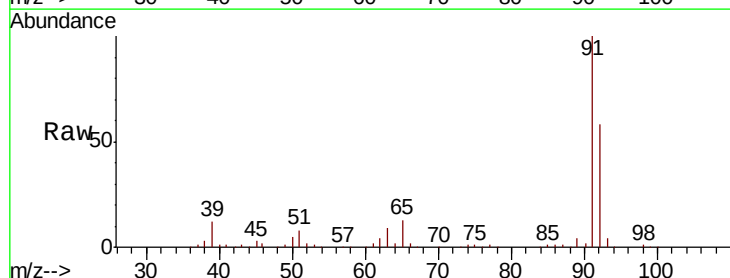
Acq: 23 Sep 2018 12:06

Tgt Ion: 92 Resp: 174243

Ion Ratio Lower Upper

92 100

91 173.7 136.4 204.6



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

200000

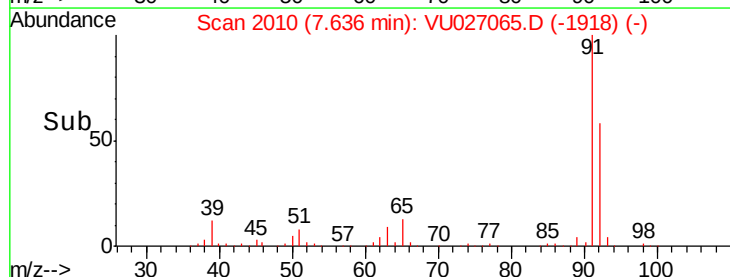
150000

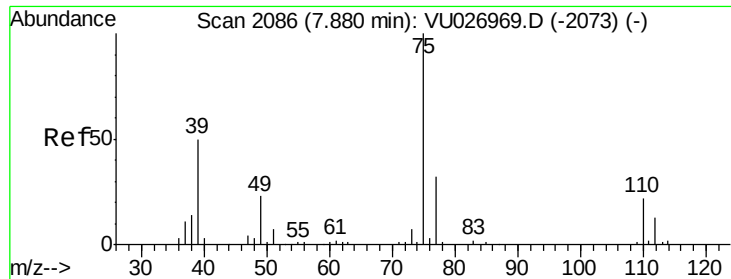
100000

50000

0

Time--> 7.60 7.70





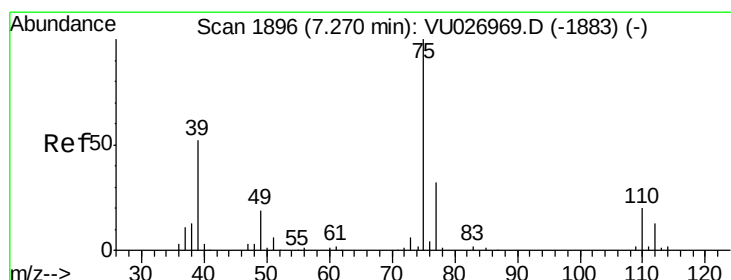
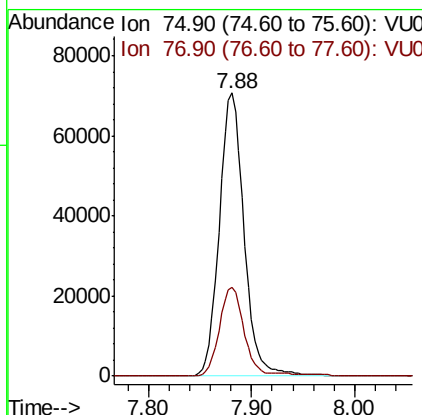
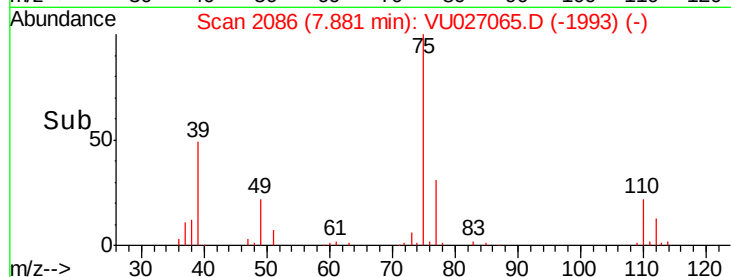
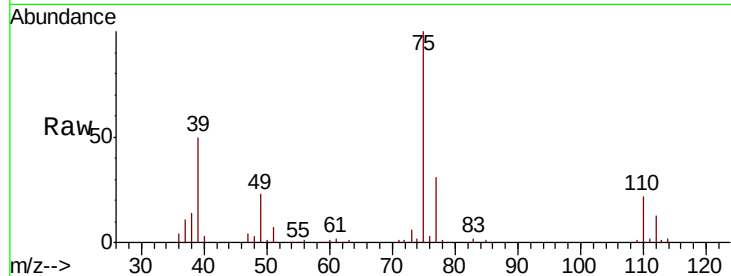
#53
t-1,3-Dichloropropene
Concen: 52.807 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 118207
Ion Ratio Lower Upper
75 100
77 31.2 25.3 37.9

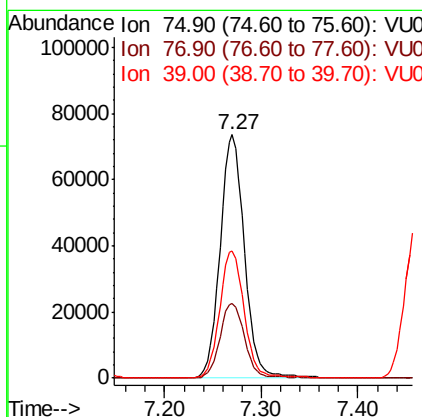
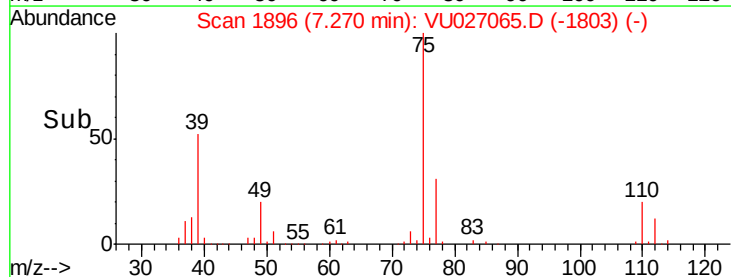
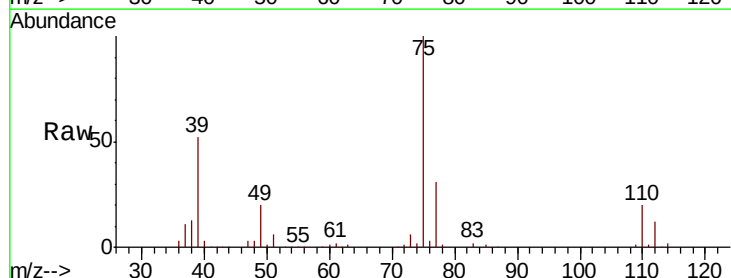
Manual Integrations
APPROVED

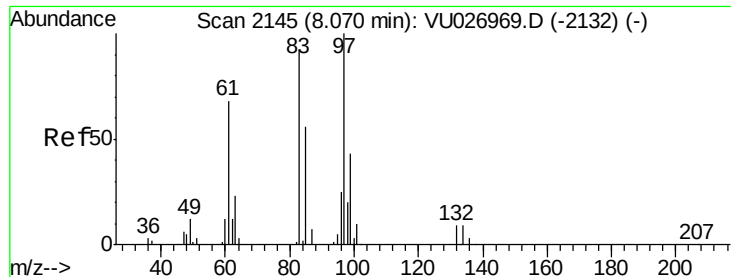
MMDadoda
9/24/2018 4:40:36 PM



#54
cis-1,3-Dichloropropene
Concen: 52.313 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion: 75 Resp: 128754
Ion Ratio Lower Upper
75 100
77 30.7 25.4 38.0
39 52.2 41.6 62.4





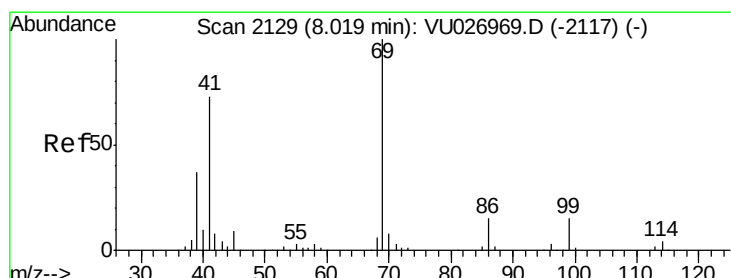
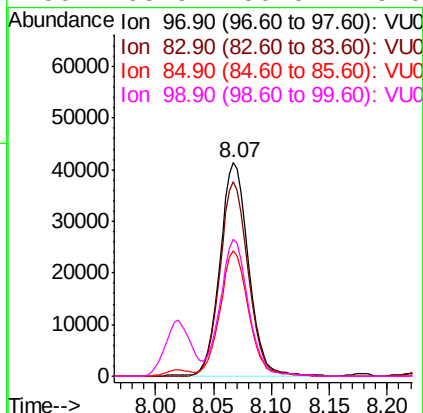
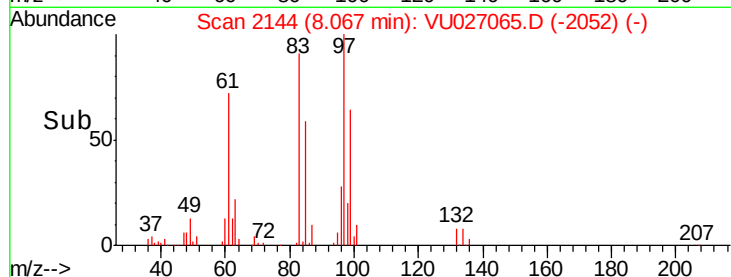
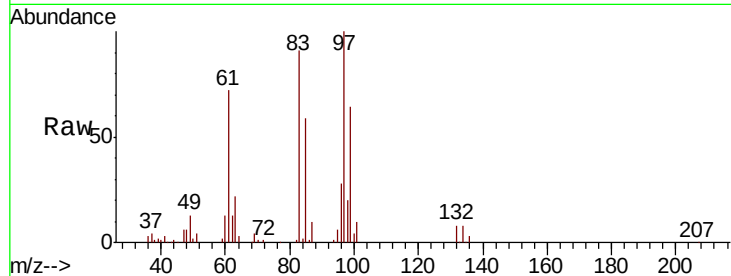
#55
 1,1,2-Trichloroethane
 Concen: 48.841 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	71026
Ion	Ratio	Lower	Upper
97	100		
83	90.8	73.1	109.7
85	58.9	46.7	70.1
99	63.9	50.0	75.0

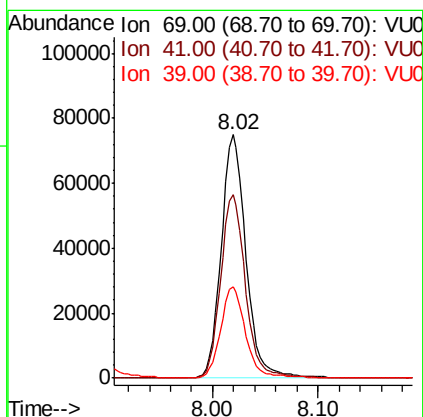
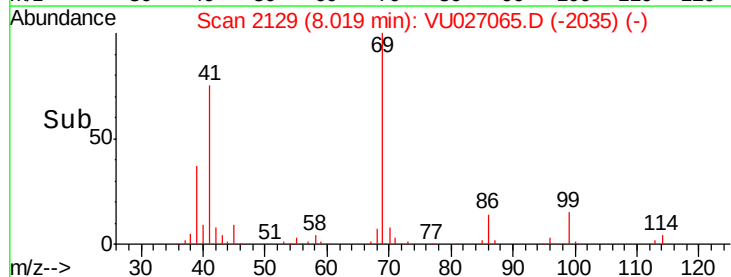
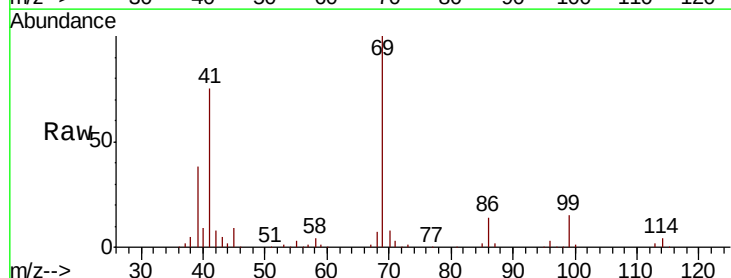
Manual Integrations
 APPROVED

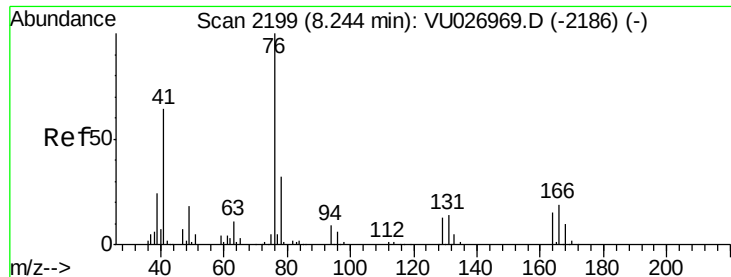
MMDadoda
 9/24/2018 4:40:36 PM



#56
 Ethyl methacrylate
 Concen: 48.272 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion:	69	Resp:	121600
Ion	Ratio	Lower	Upper
69	100		
41	75.7	59.0	88.4
39	37.3	30.2	45.4





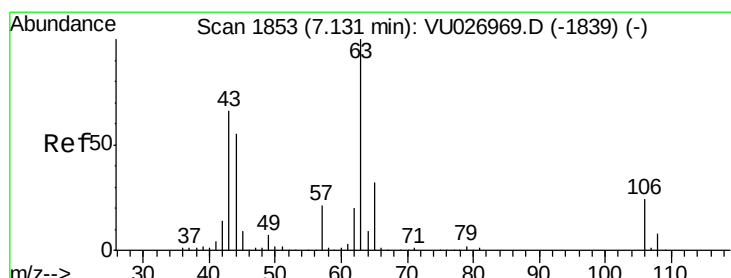
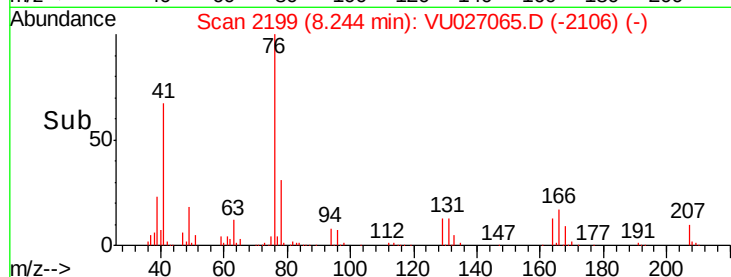
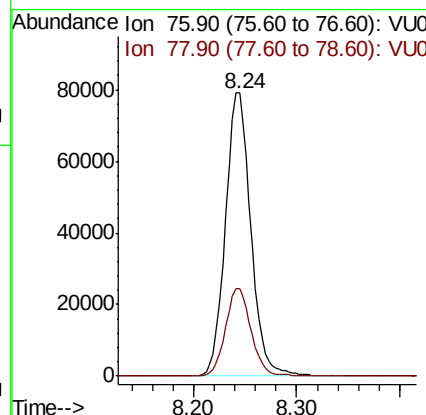
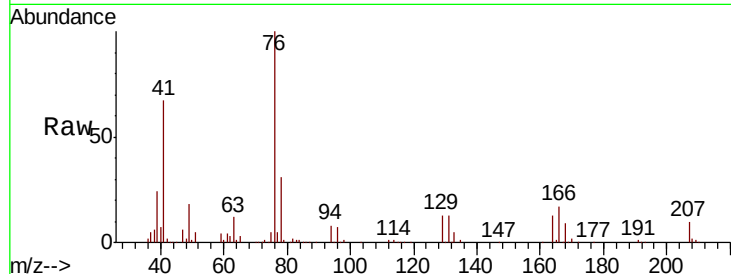
#57
 1,3-Dichloropropane
 Concen: 50.178 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.2	25.5	38.3

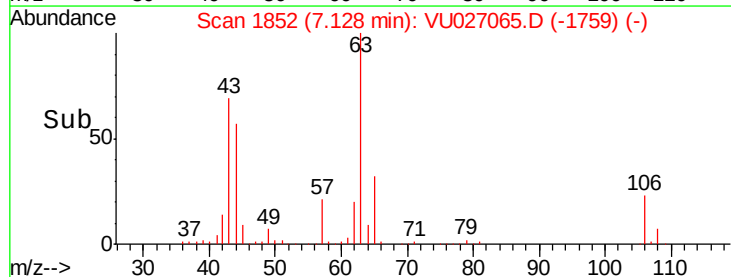
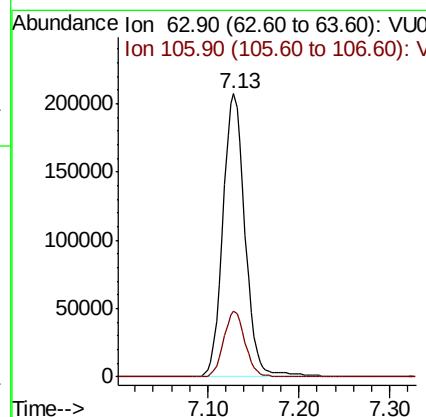
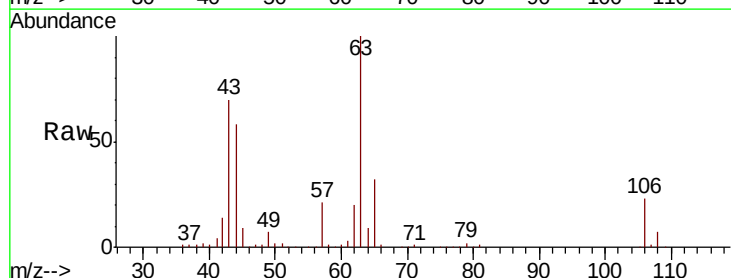
Manual Integrations
 APPROVED

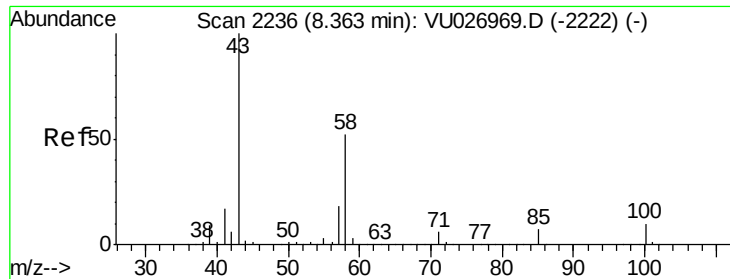
MMDadoda
 9/24/2018 4:40:36 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 245.427 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
63	100		
106	22.8	18.7	28.1





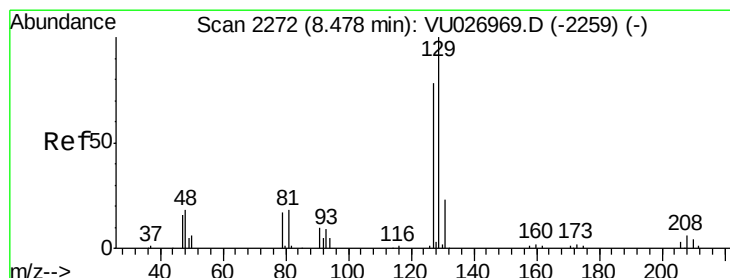
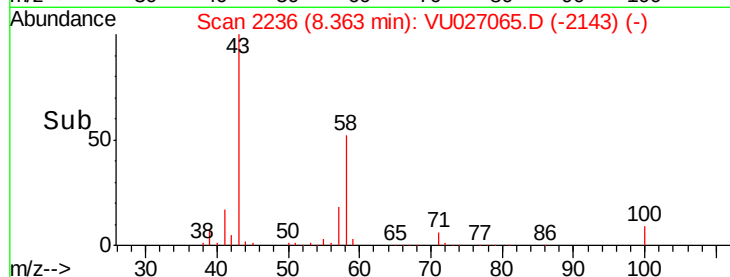
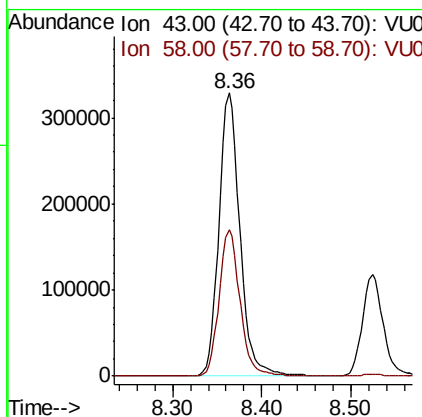
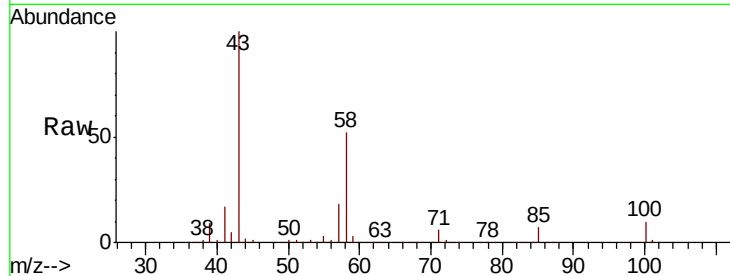
#59
2-Hexanone
Concen: 261.899 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	43	58	Ratio	Lower	Upper
536139	100	51.7		26.1	78.2

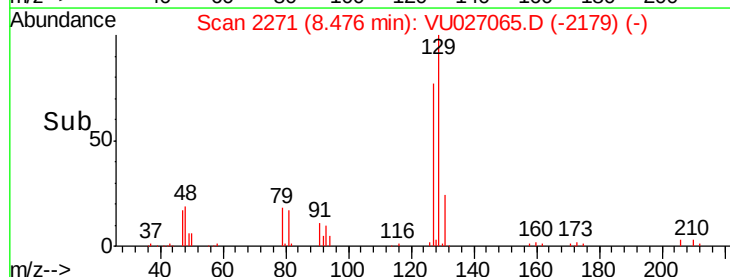
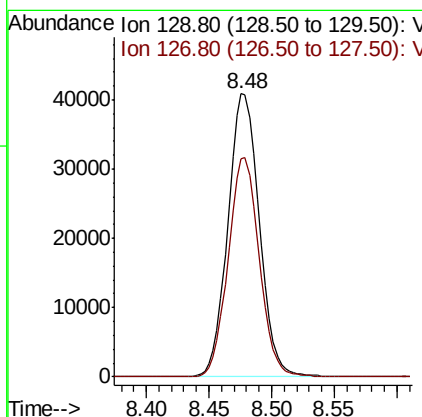
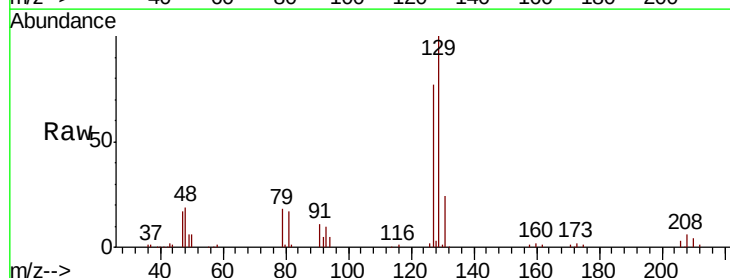
Manual Integrations
APPROVED

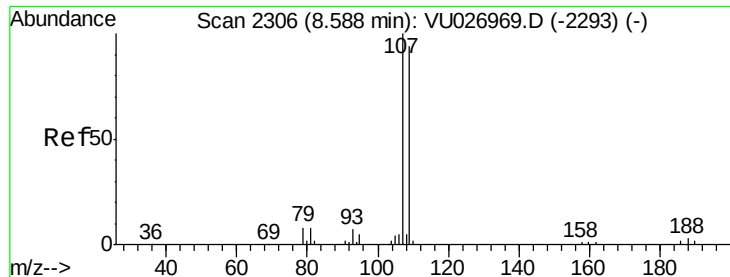
MMDadoda
9/24/2018 4:40:36 PM



#60
Dibromochloromethane
Concen: 49.957 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	129	127	Ratio	Lower	Upper
71260	100	76.5		38.1	114.5





#61

1,2-Dibromoethane

Concen: 48.493 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 73373

Ion Ratio Lower Upper

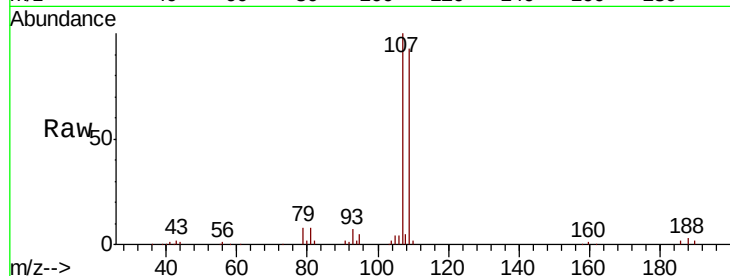
107 100

109 93.1 75.0 112.6

Manual Integrations
APPROVED

MMDadoda

9/24/2018 4:40:36 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.59

50000

40000

30000

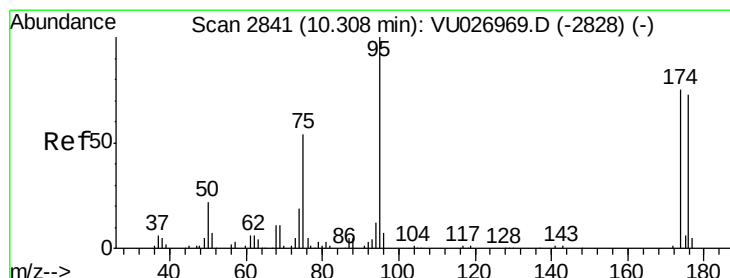
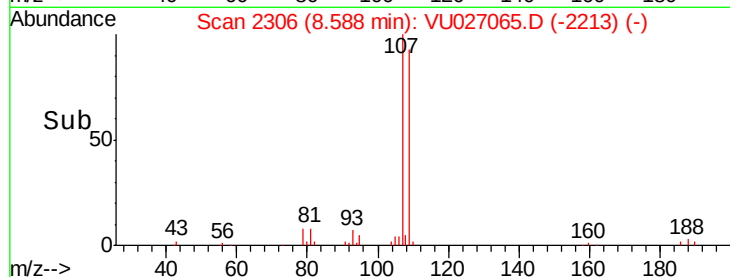
20000

10000

0

Time-->

8.50 8.55 8.60 8.65 8.70



#62

4-Bromofluorobenzene

Concen: 52.903 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

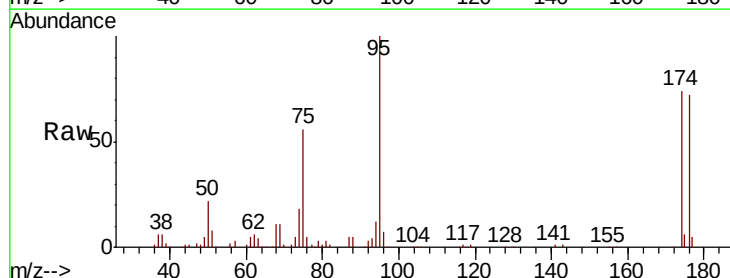
Tgt Ion: 95 Resp: 88495

Ion Ratio Lower Upper

95 100

174 72.7 0.0 150.2

176 70.7 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.31

60000

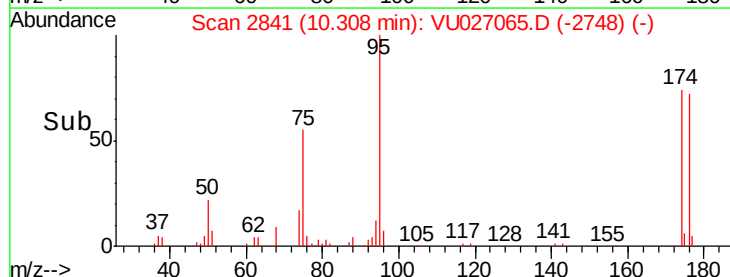
40000

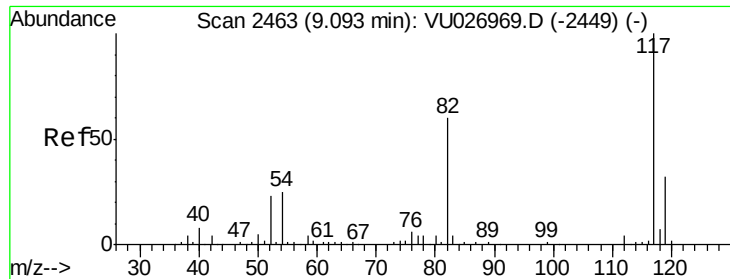
20000

0

Time-->

10.25 10.30 10.35 10.40





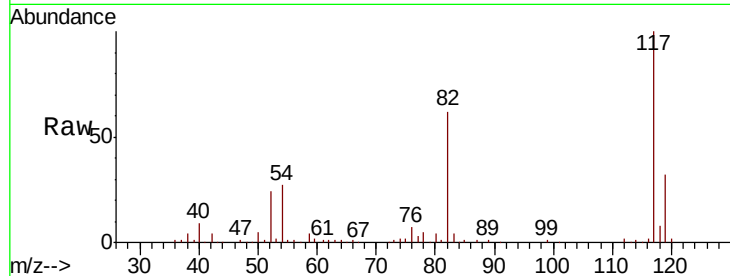
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	142100		
82	62.3	48.0	72.0	
119	31.7	25.8	38.8	

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM

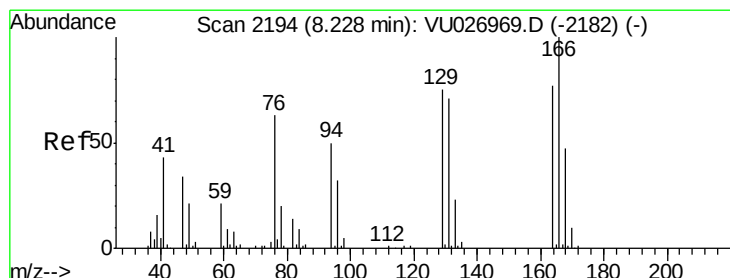
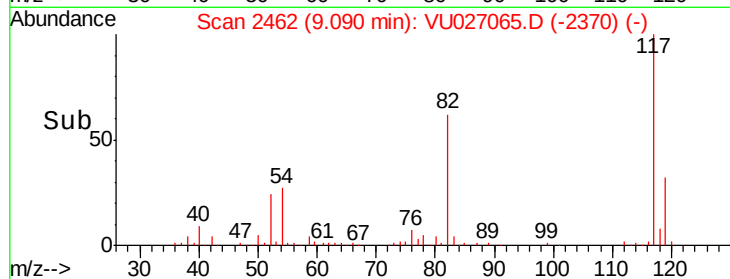
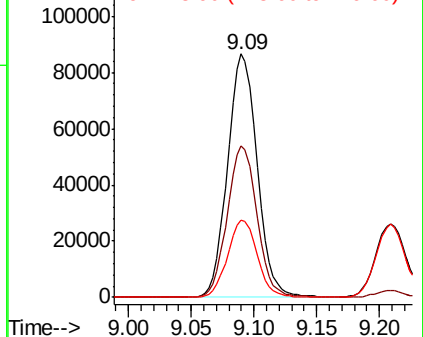


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 47.577 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	52096		
166	127.2	104.4	156.6	
129	96.6	78.7	118.1	
131	93.6	73.9	110.9	

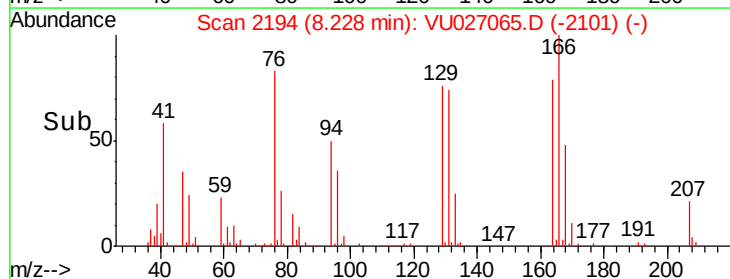
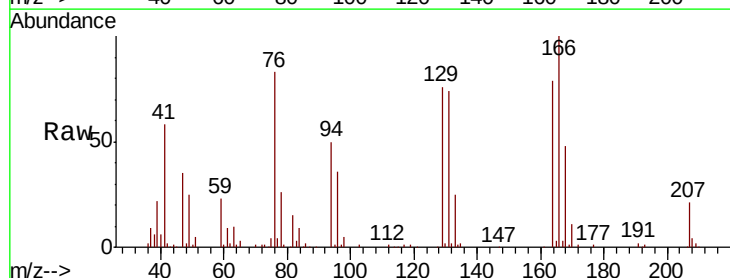
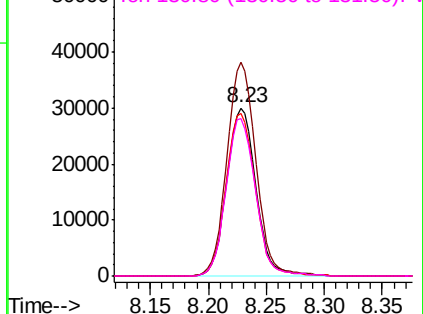
Abundance

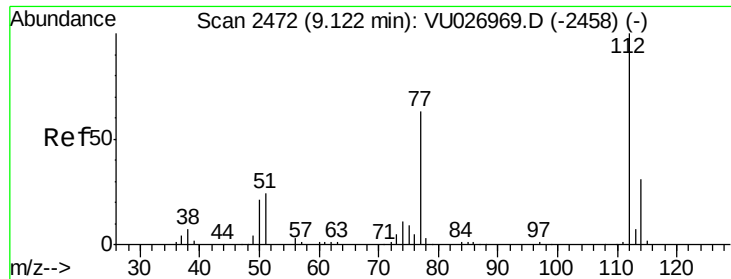
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





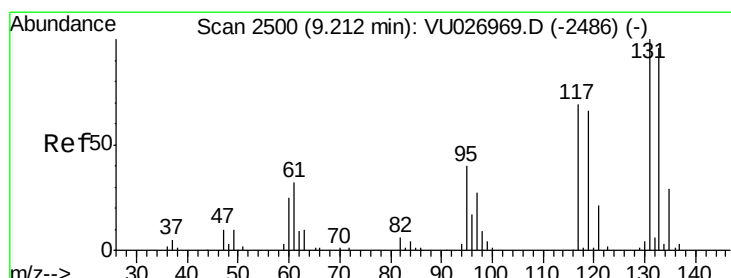
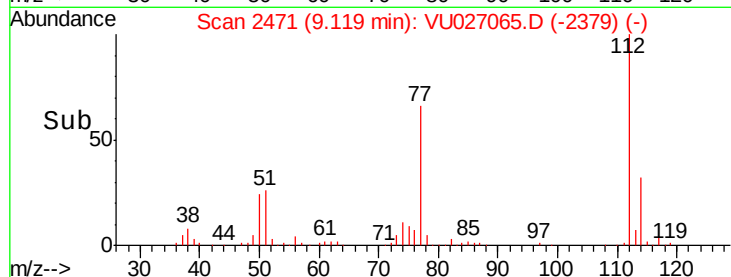
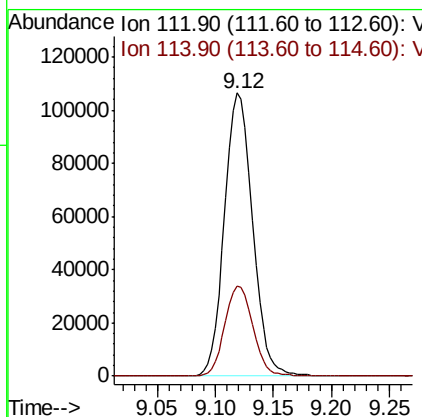
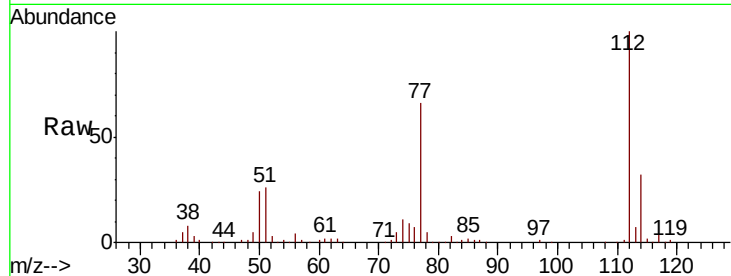
#65
Chlorobenzene
Concen: 47.554 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 179172
Ion Ratio Lower Upper
112 100
114 31.7 25.0 37.6

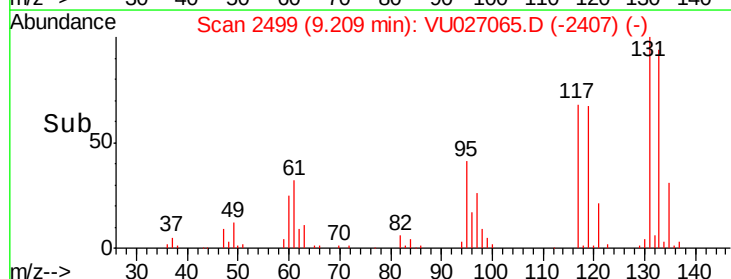
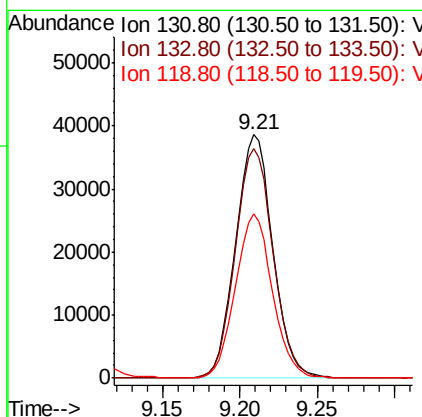
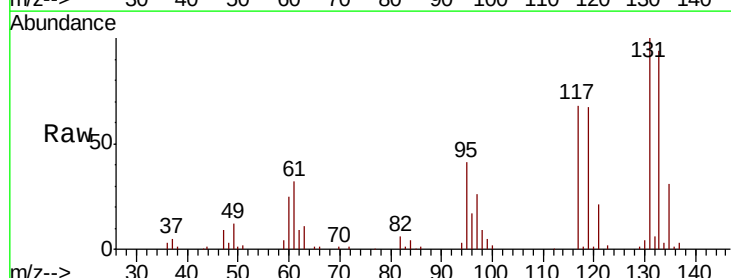
Manual Integrations
APPROVED

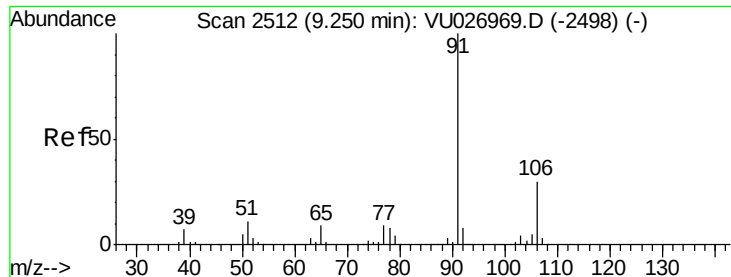
MMDadoda
9/24/2018 4:40:36 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.650 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion:131 Resp: 64434
Ion Ratio Lower Upper
131 100
133 96.1 48.0 144.2
119 67.3 33.4 100.1





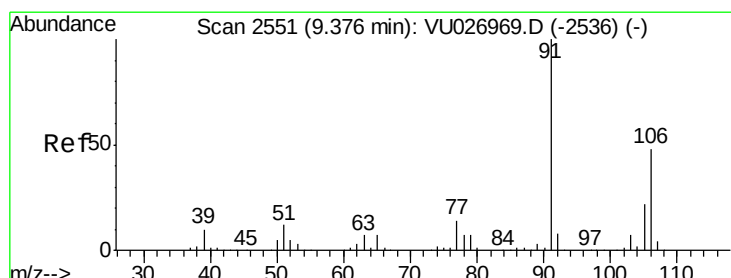
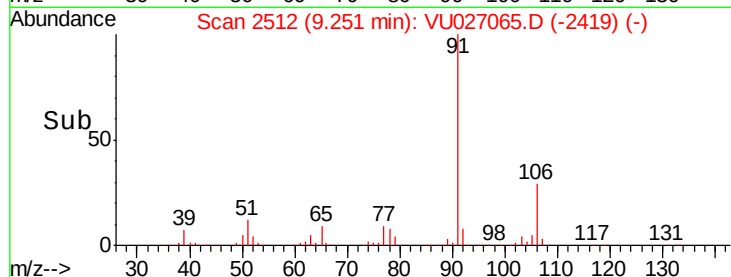
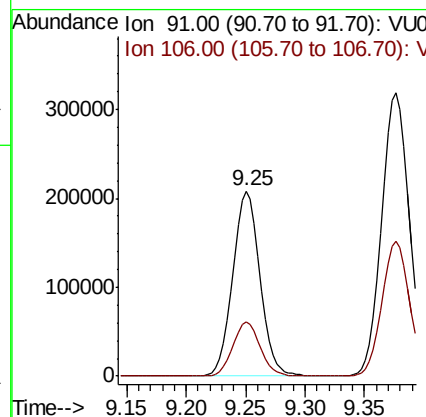
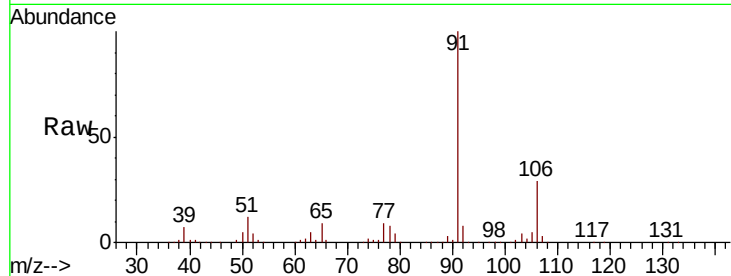
#67
Ethyl Benzene
Concen: 53.190 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 329549
Ion Ratio Lower Upper
91 100
106 29.2 23.8 35.8

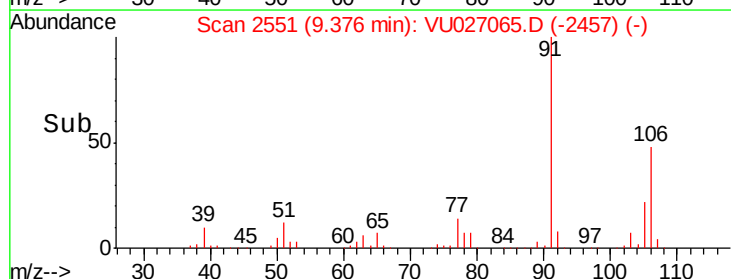
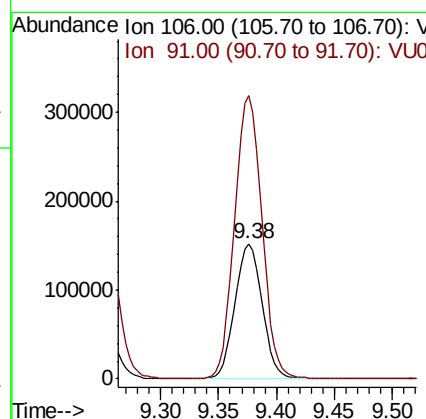
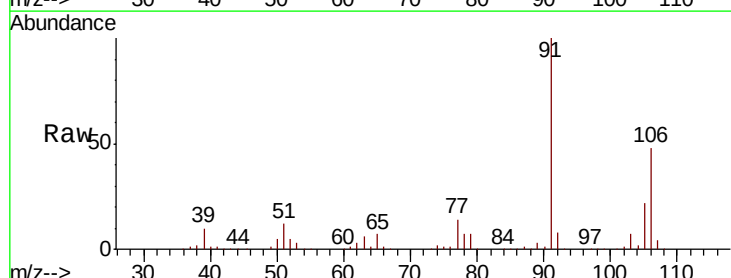
Manual Integrations
APPROVED

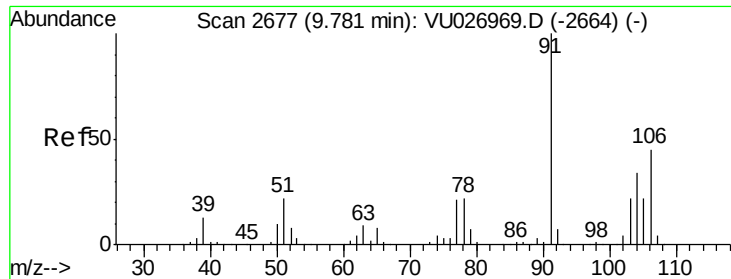
MMDadoda
9/24/2018 4:40:36 PM



#68
m/p-Xylenes
Concen: 98.032 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion: 106 Resp: 245905
Ion Ratio Lower Upper
106 100
91 211.2 166.5 249.7





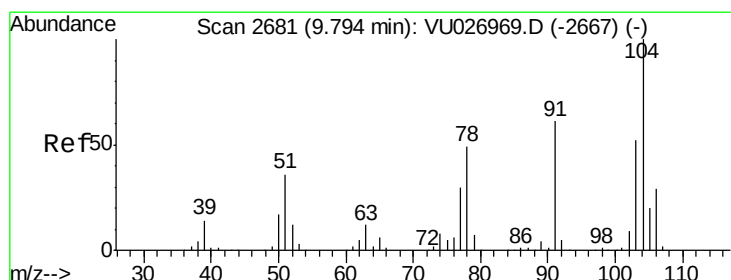
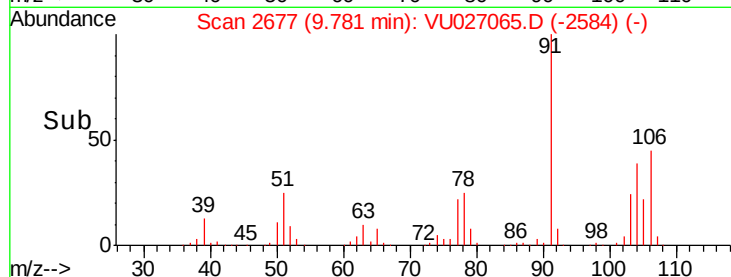
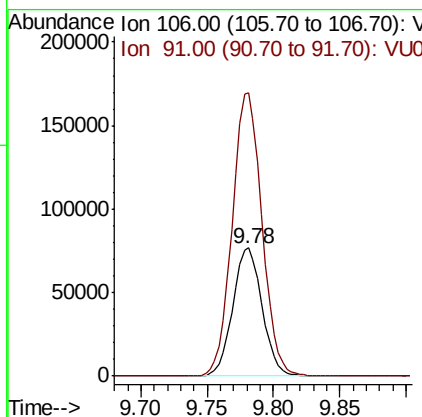
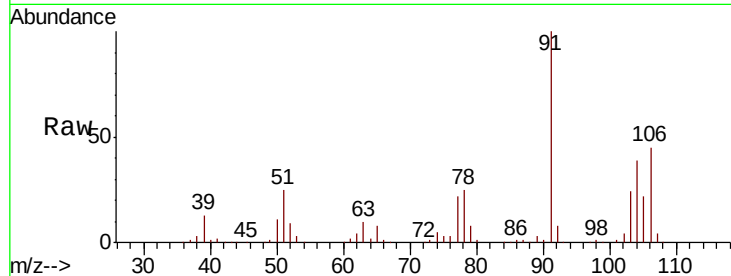
#69
o-Xylene
Concen: 53.823 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	223.9	110.2	330.6

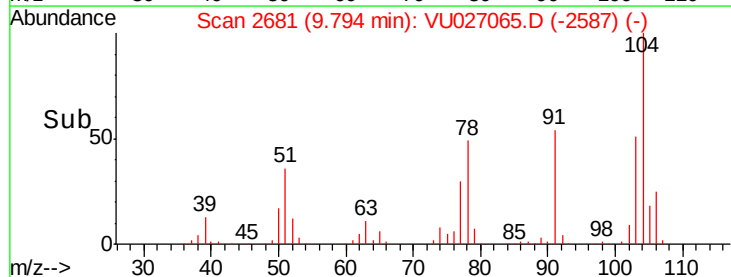
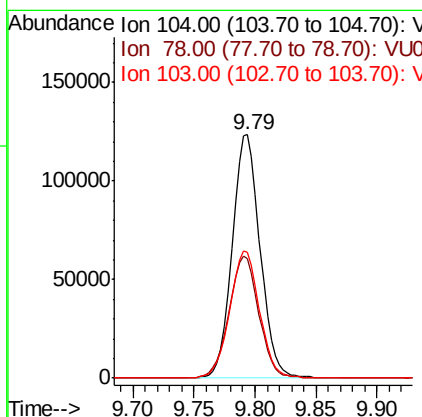
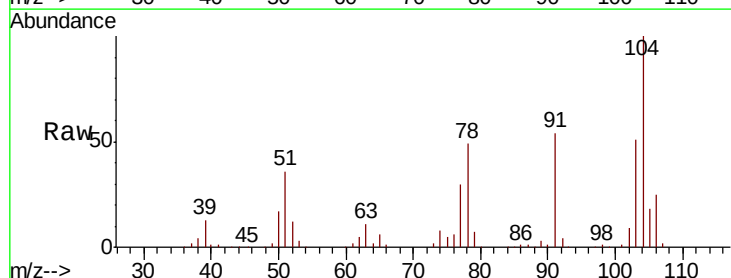
Manual Integrations
APPROVED

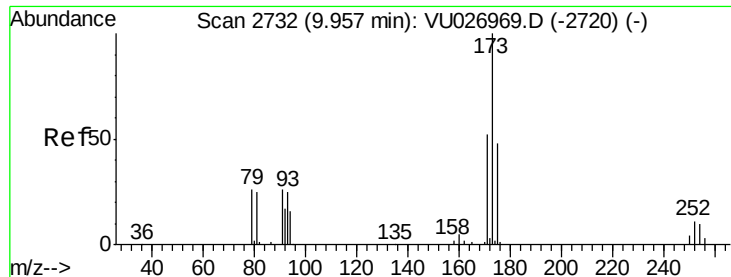
MMDadoda
9/24/2018 4:40:36 PM



#70
Styrene
Concen: 48.022 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.1	43.0	64.4
103	55.7	44.1	66.1





#71

Bromoform

Concen: 50.531 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

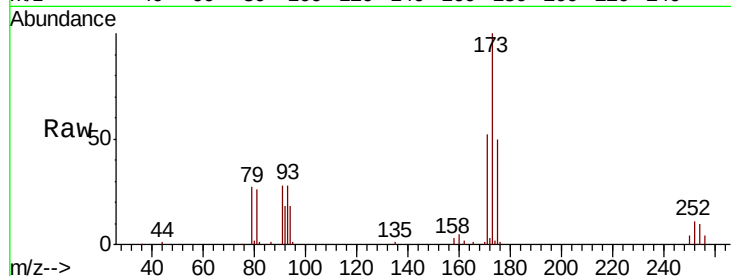
ClientSampleId :

VSTDCCC050

Tot Ion:	173	Resp:	50711
Ion Ratio	Lower	Upper	
173	100		
175	49.4	23.9	71.8
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM

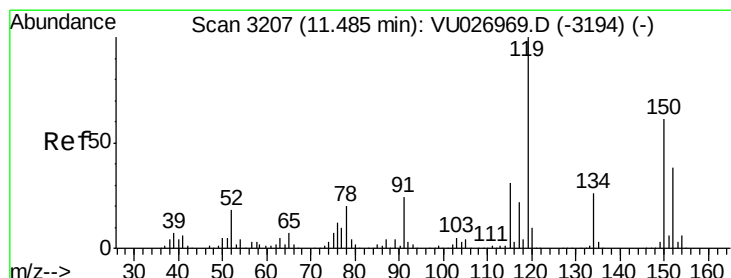
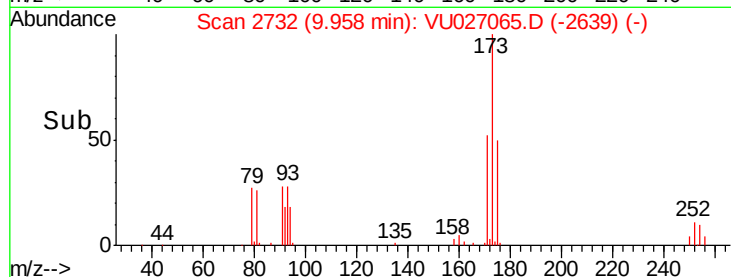
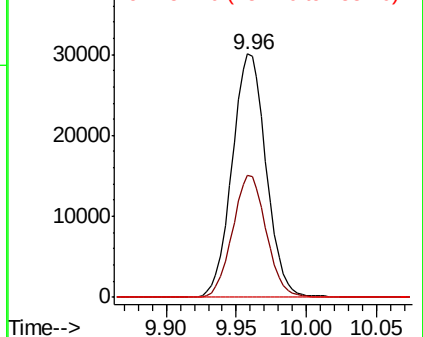


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

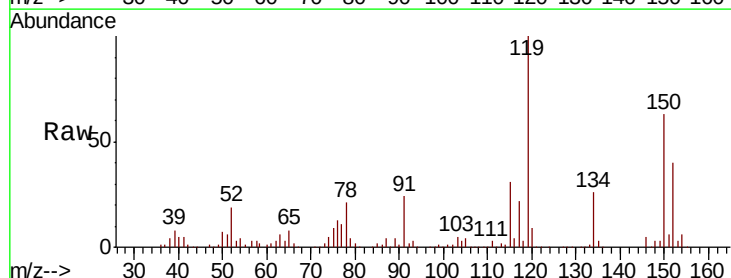
RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Tgt Ion:	152	Resp:	78629
Ion Ratio	Lower	Upper	
152	100		
115	85.8	44.9	134.5
150	172.7	0.0	355.8

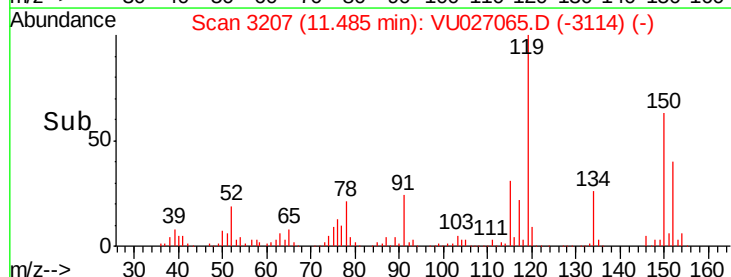
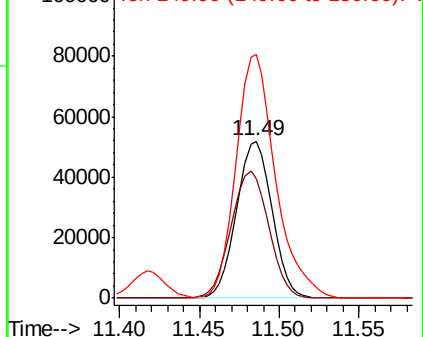


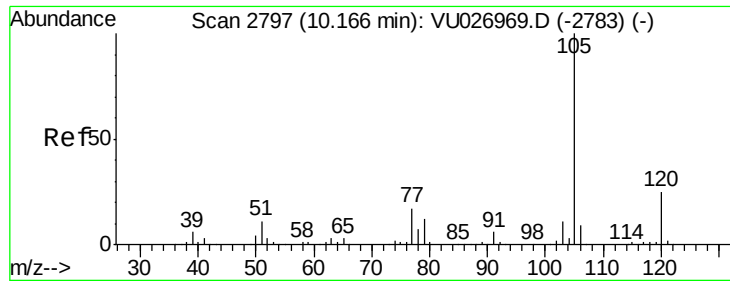
Abundance

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: 54.078 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 323453

Ion Ratio Lower Upper

105 100

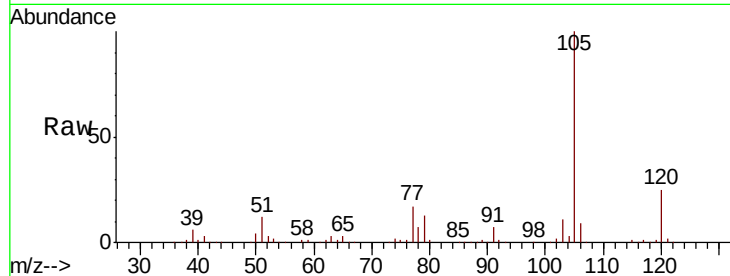
120 25.3 12.8 38.4

Manual Integrations

APPROVED

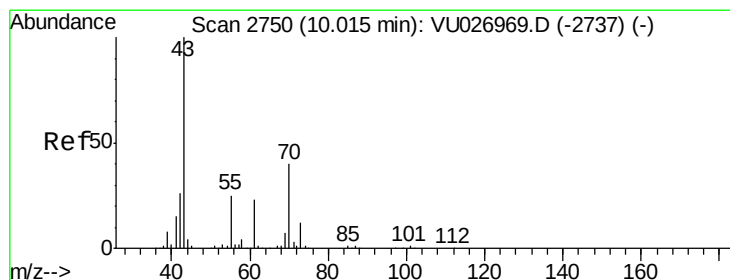
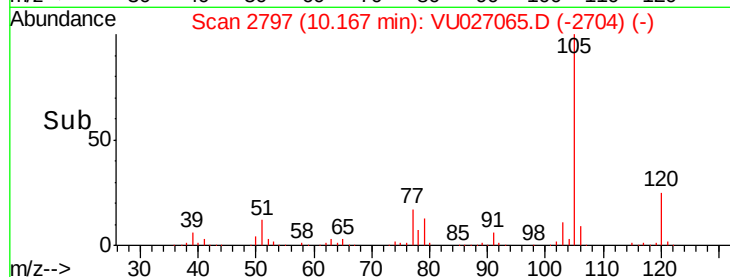
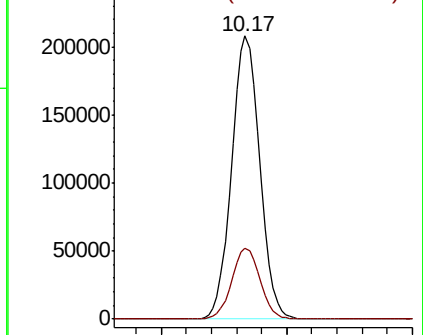
MMDadoda

9/24/2018 4:40:36 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 54.573 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Tgt Ion: 43 Resp: 188942

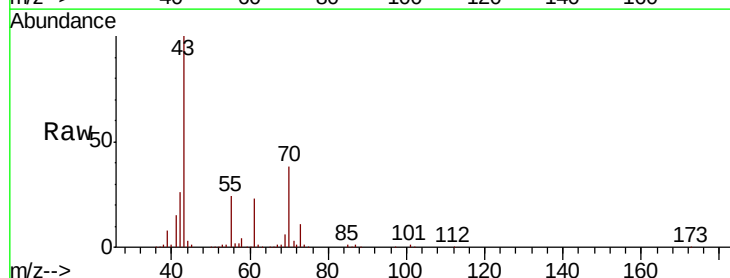
Ion Ratio Lower Upper

43 100

70 38.6 31.8 47.8

55 24.3 19.9 29.9

61 22.4 18.4 27.6

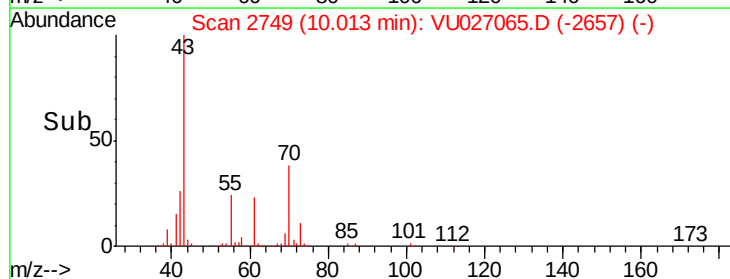
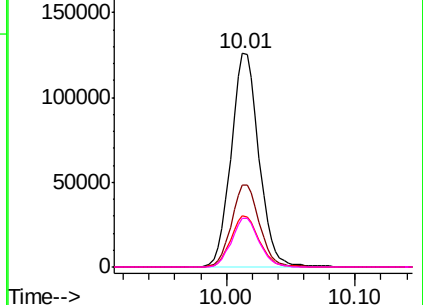


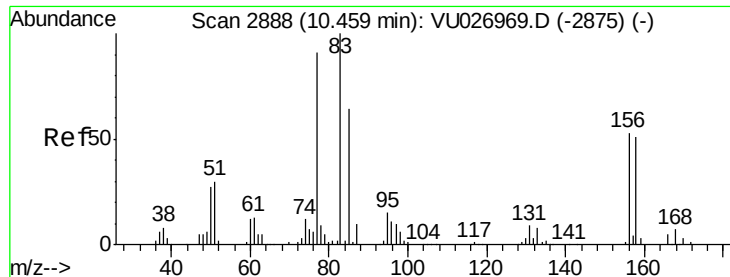
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 46.428 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

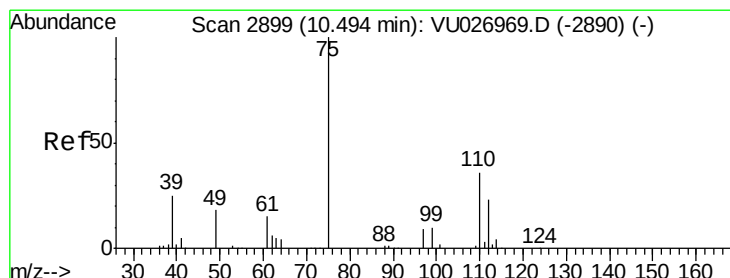
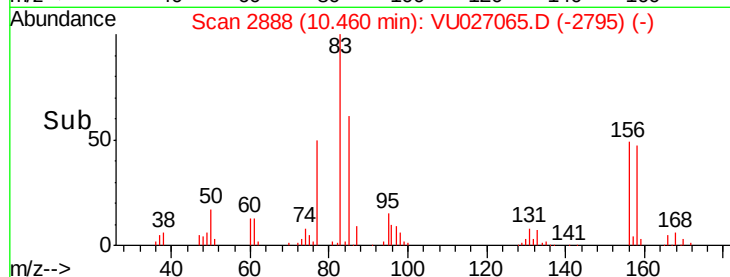
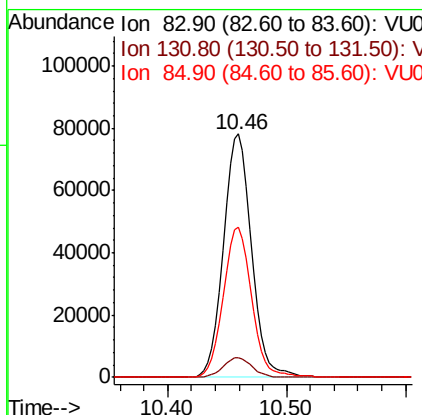
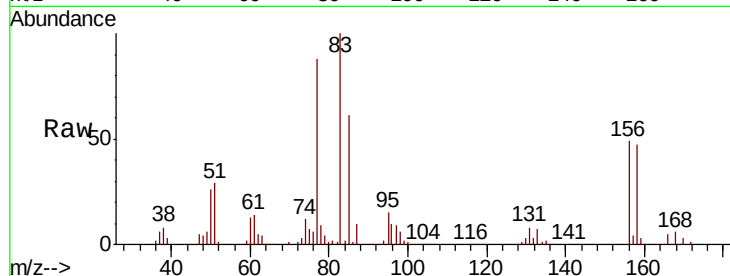
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	127678
Ion Ratio	Lower	Upper	
83	100		
131	8.2	4.3	12.8
85	62.4	31.9	95.7

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM



#76

1,2,3-Trichloropropane

Concen: 45.269 ug/l m

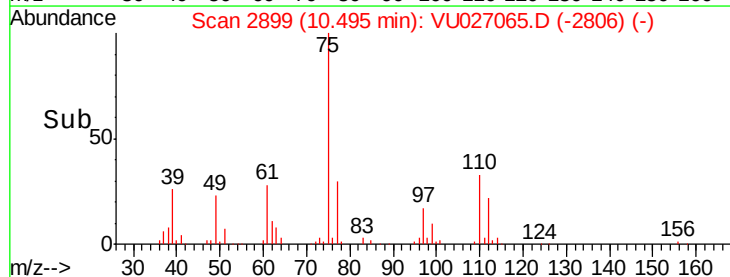
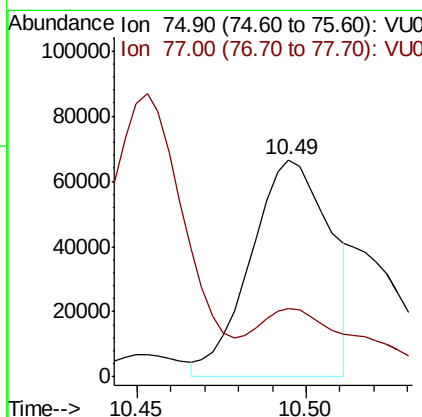
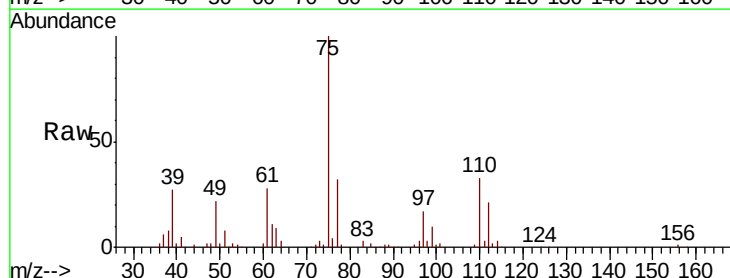
RT: 10.49 min Scan# 2899

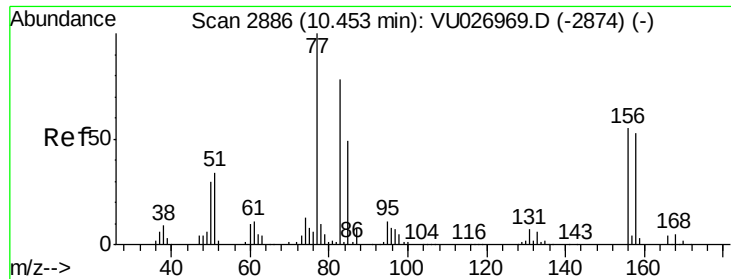
Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Tgt Ion:	75	Resp:	108136
Ion Ratio	Lower	Upper	
75	100		
77	43.4	20.9	62.8





#77

Bromobenzene

Concen: 49.346 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

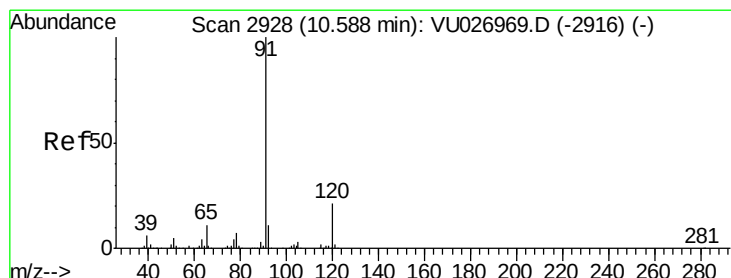
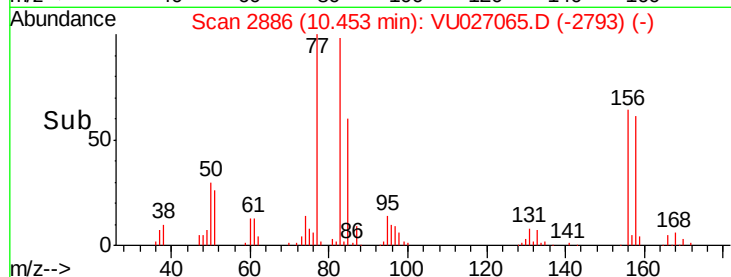
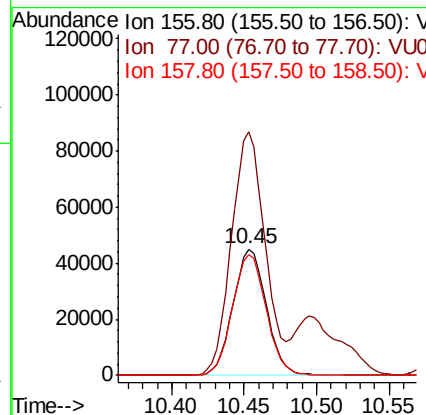
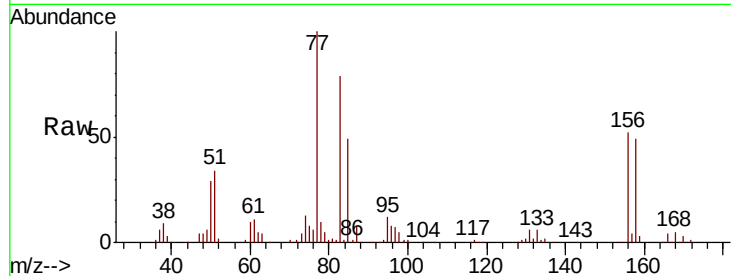
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	72125
Ion Ratio	Lower	Upper	
156	100		
77	194.1	92.3	276.9
158	96.2	48.1	144.3

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM



#78

n-propylbenzene

Concen: 55.533 ug/l

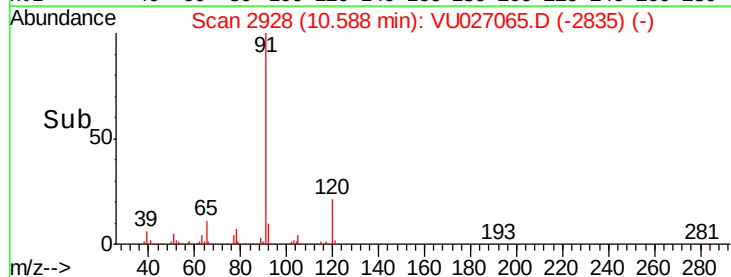
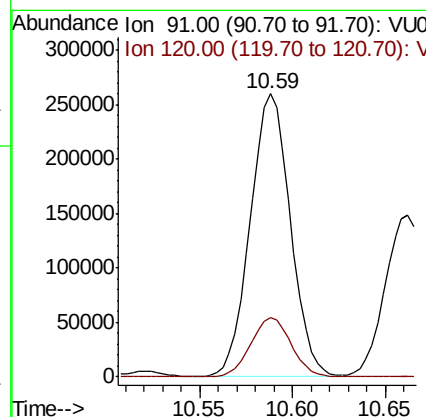
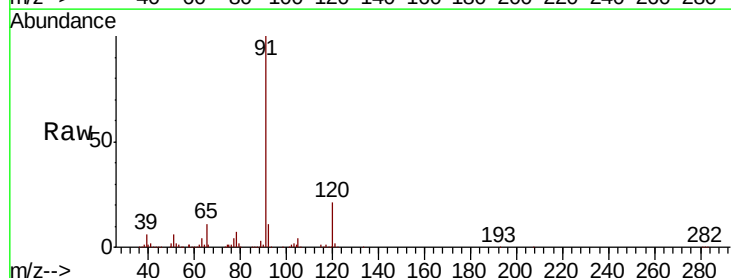
RT: 10.59 min Scan# 2928

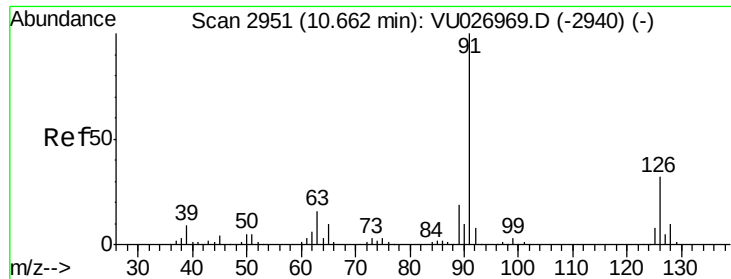
Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Tgt Ion:	91	Resp:	393015
Ion Ratio	Lower	Upper	
91	100		
120	21.0	10.6	31.8





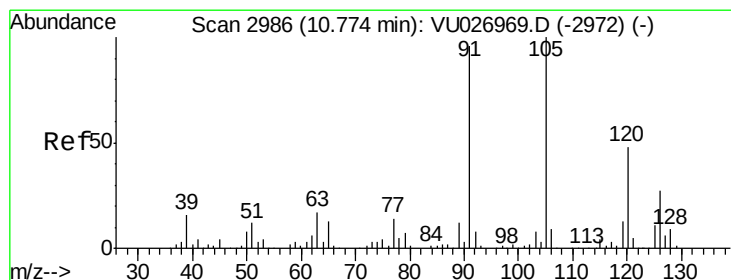
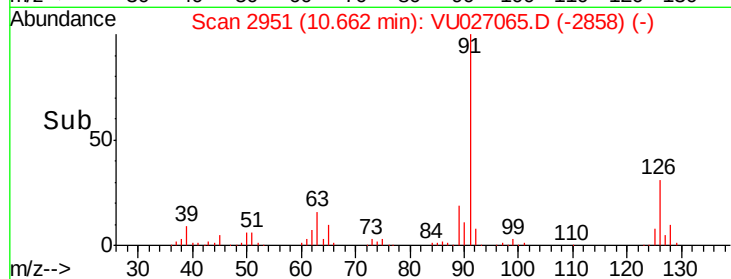
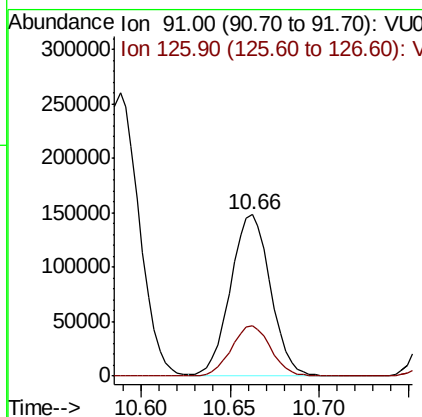
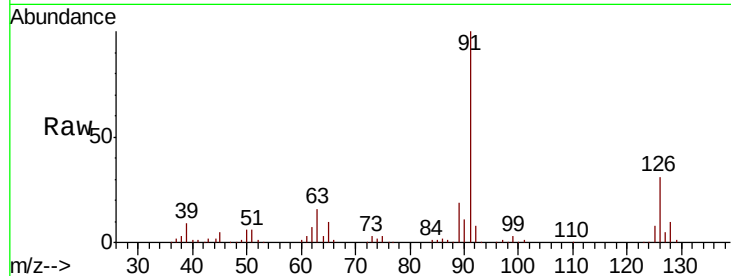
#79
 2-Chlorotoluene
 Concen: 51.977 ug/l
 RT: 10.66 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.8	47.3

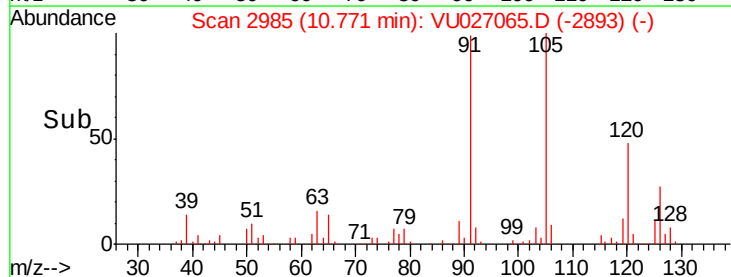
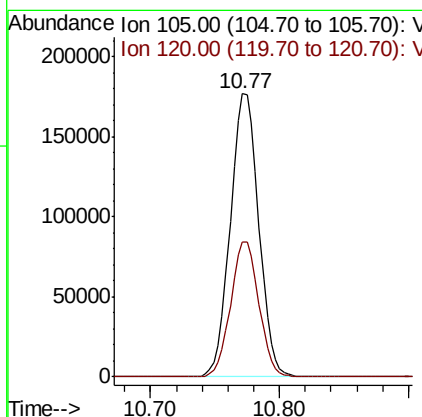
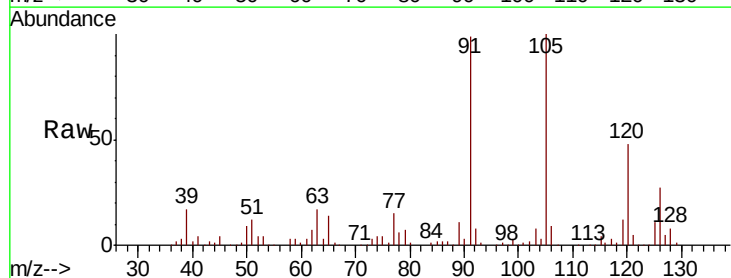
Manual Integrations
 APPROVED

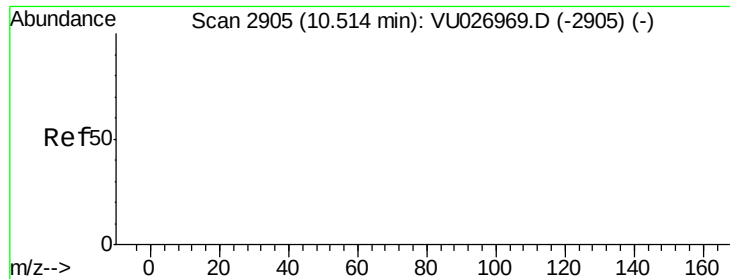
MMDadoda
 9/24/2018 4:40:36 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 54.850 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.9	71.7





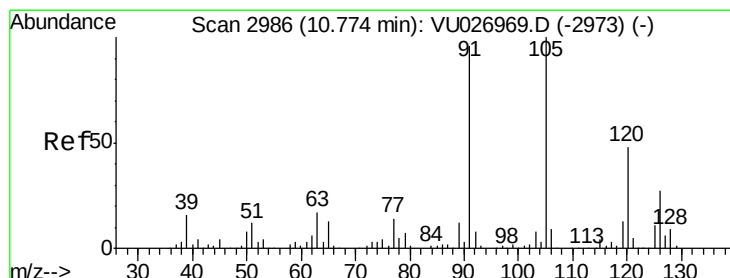
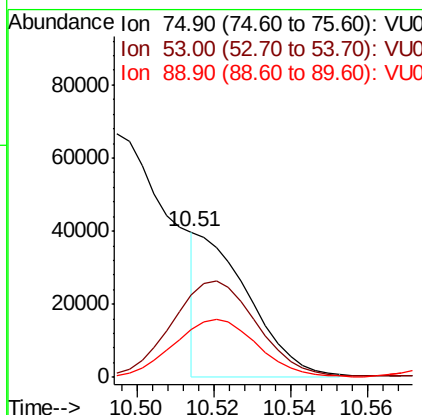
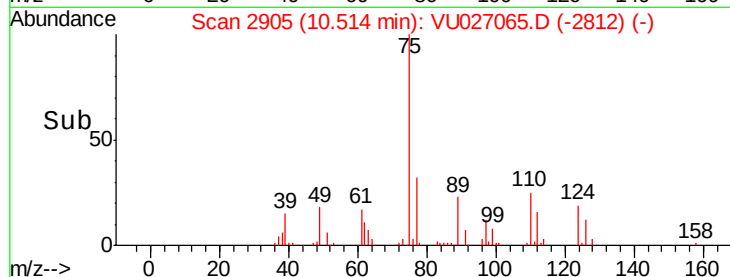
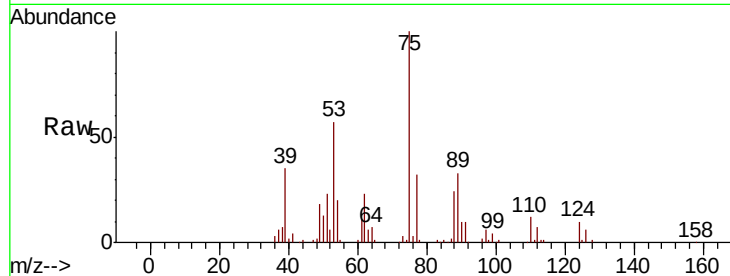
#81
trans-1,4-Dichloro-2-butene
Concen: 48.453 ug/l m
RT: 10.51 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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

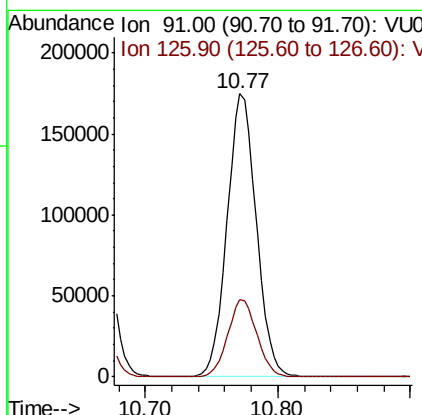
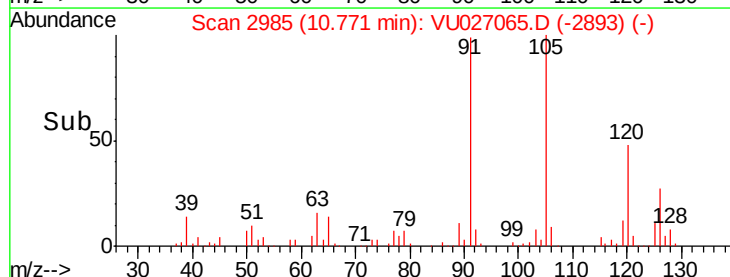
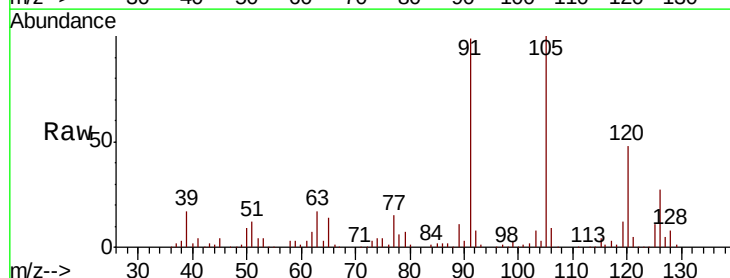
Manual Integrations
APPROVED

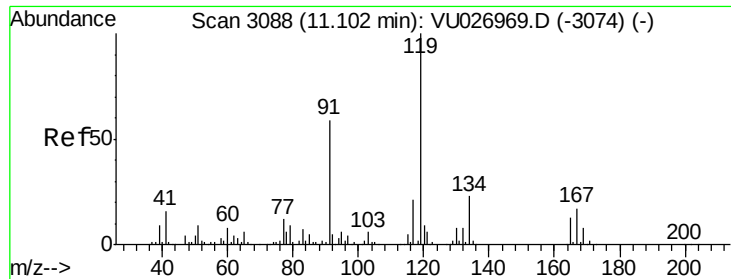
MMDadoda
9/24/2018 4:40:36 PM



#82
4-Chlorotoluene
Concen: 53.428 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.5	14.1	42.2





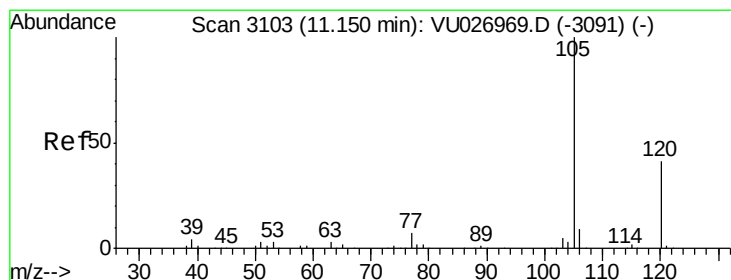
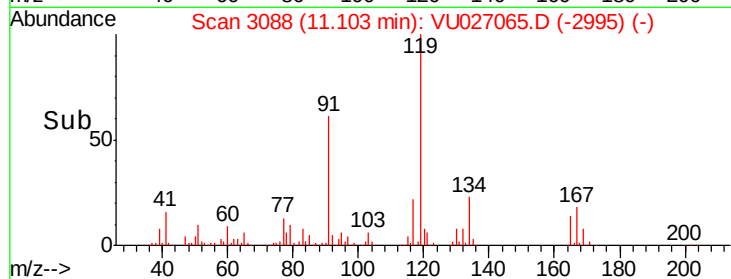
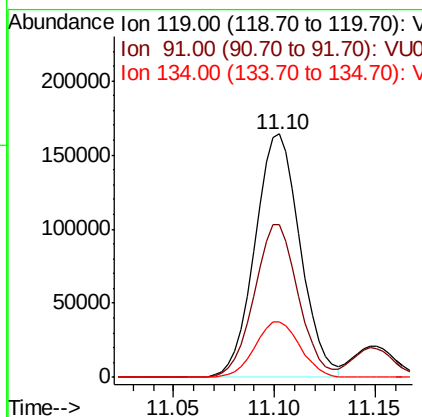
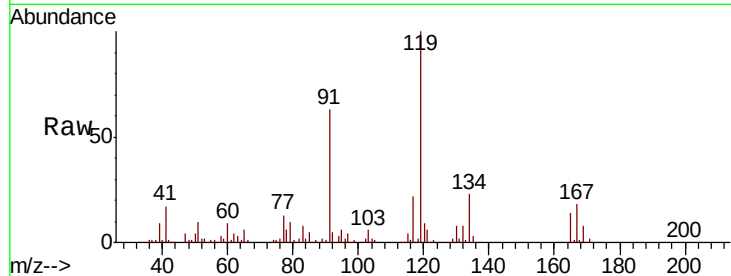
#83
 tert-Butylbenzene
 Concen: 52.645 ug/l
 RT: 11.10 min Scan# 3088
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion:	119	Resp:	256981
Ion Ratio	Lower	Upper	
119	100		
91	61.2	29.8	89.4
134	22.9	11.5	34.4

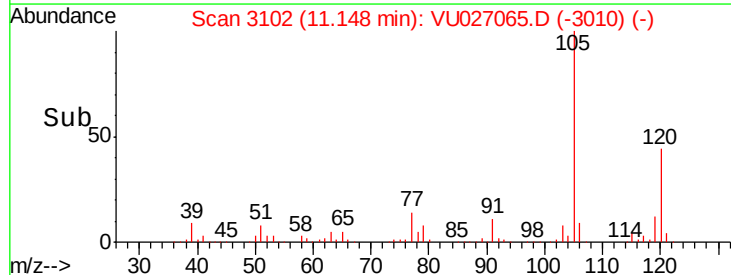
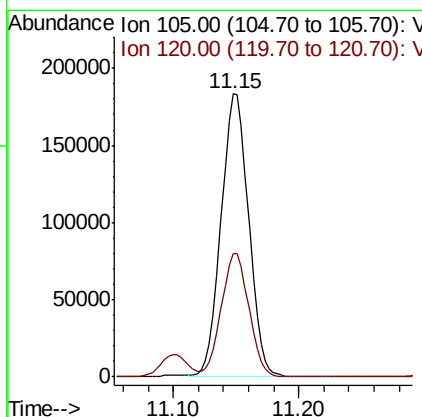
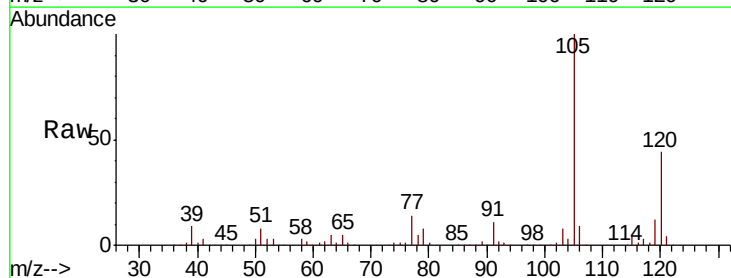
Manual Integrations
 APPROVED

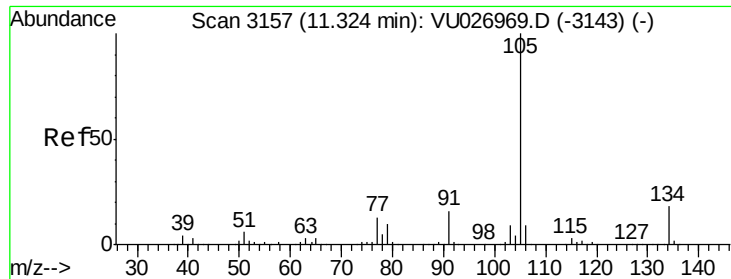
MMDadoda
 9/24/2018 4:40:36 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 55.411 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion:	105	Resp:	278425
Ion Ratio	Lower	Upper	
105	100		
120	43.8	22.4	67.2





#85

sec-Butylbenzene

Concen: 55.026 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 327881

Ion Ratio Lower Upper

105 100

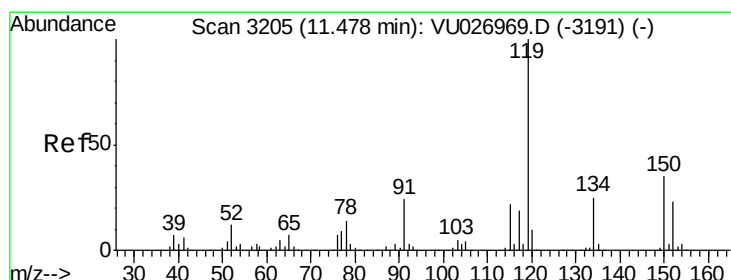
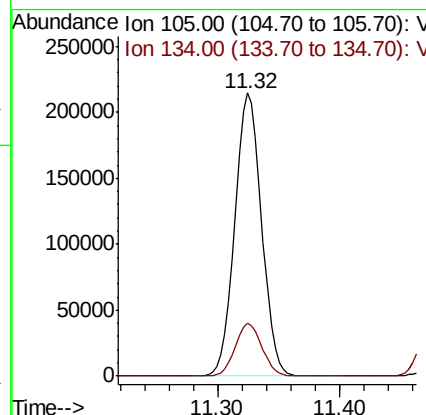
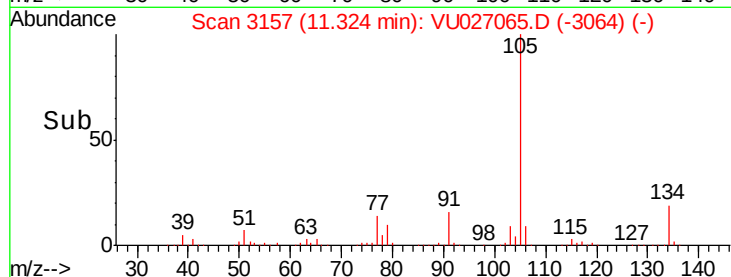
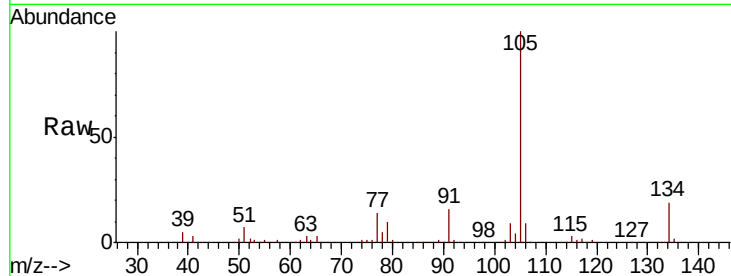
134 18.6 9.4 28.2

Manual Integrations

APPROVED

MMDadoda

9/24/2018 4:40:36 PM



#86

p-Isopropyltoluene

Concen: 49.960 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU027065.D

Acq: 23 Sep 2018 12:06

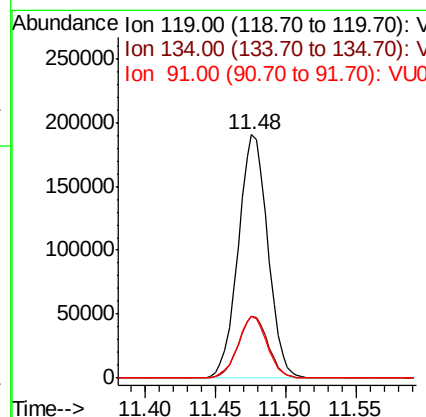
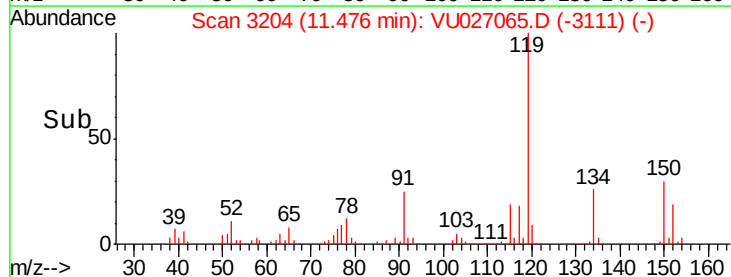
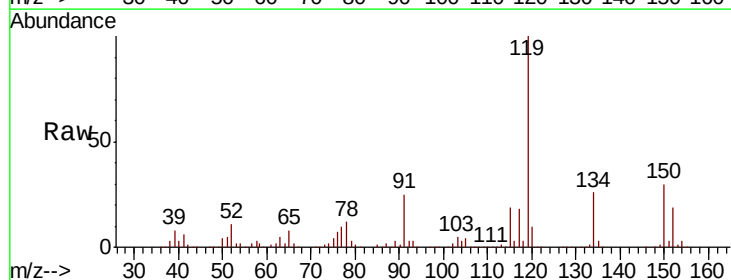
Tgt Ion:119 Resp: 279331

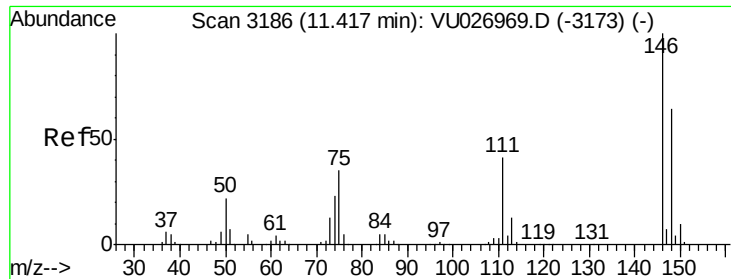
Ion Ratio Lower Upper

119 100

134 25.6 12.8 38.3

91 25.1 12.3 36.8





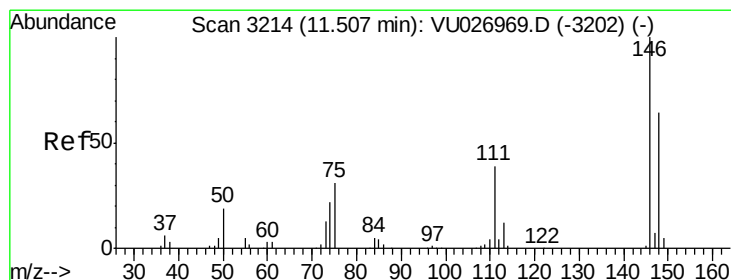
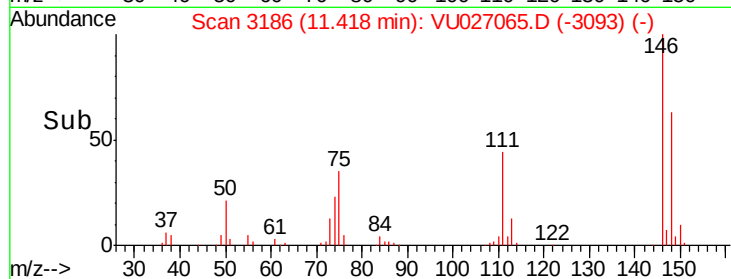
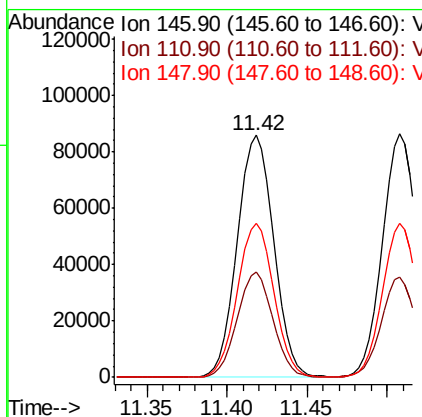
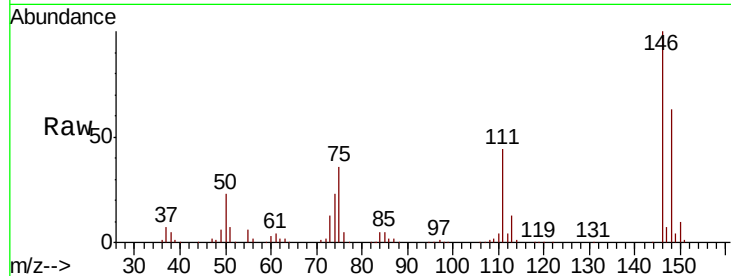
#87
 1,3-Dichlorobenzene
 Concen: 49.122 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.8	62.2
148	63.6	32.0	96.2

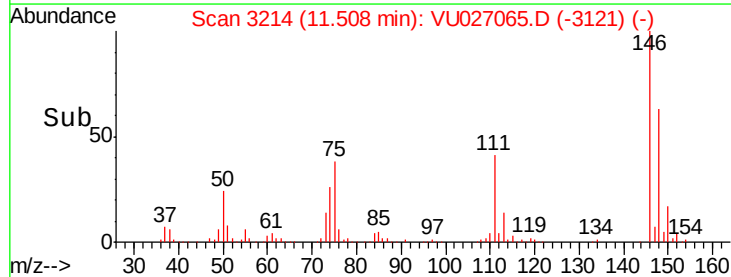
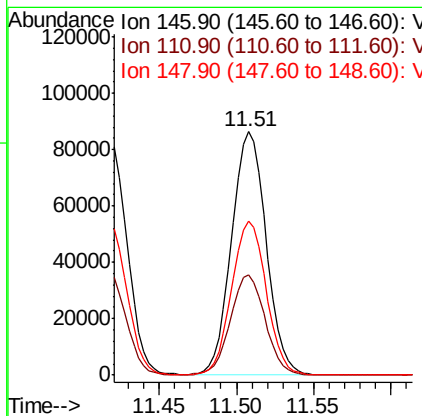
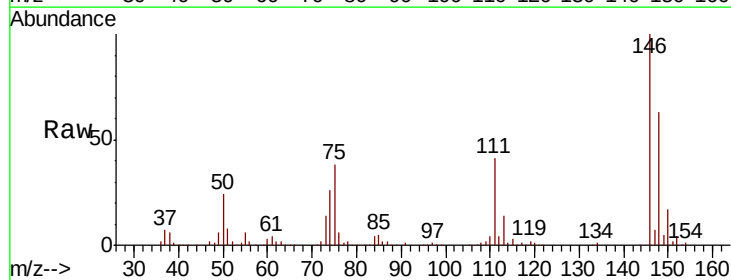
Manual Integrations
 APPROVED

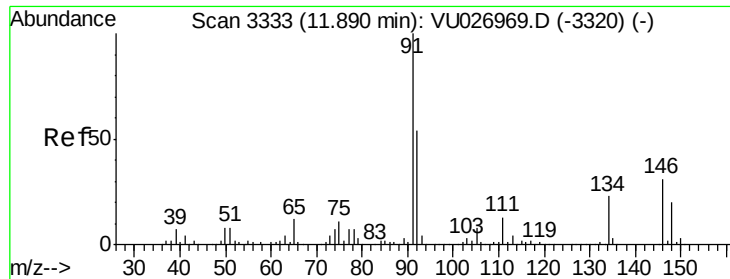
MMDadoda
 9/24/2018 4:40:36 PM



#88
 1,4-Dichlorobenzene
 Concen: 45.084 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.3	60.9
148	63.5	31.9	95.9





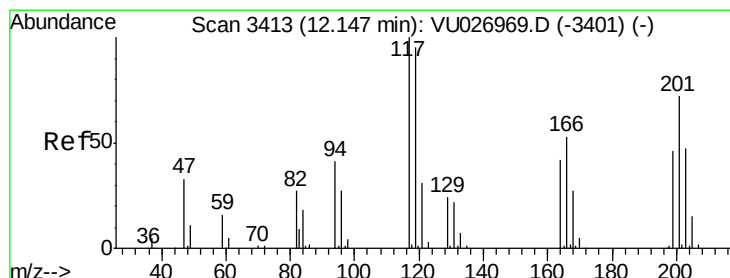
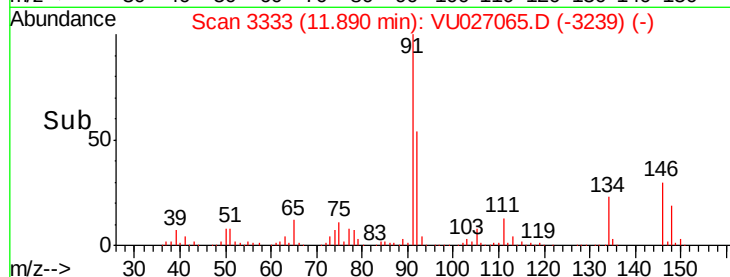
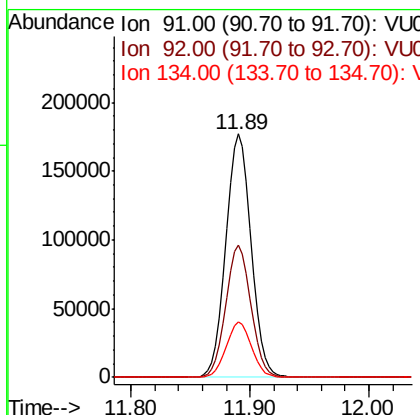
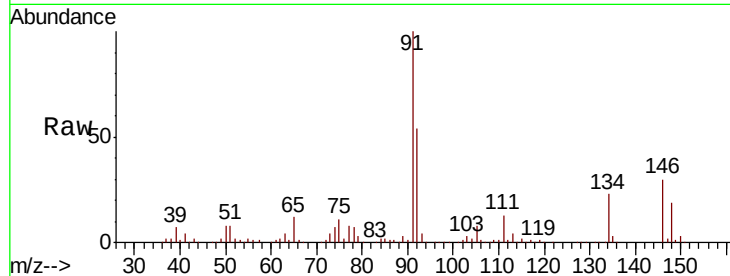
#89
n-Butylbenzene
Concen: 48.204 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.1	81.2
134	22.7	11.7	35.0

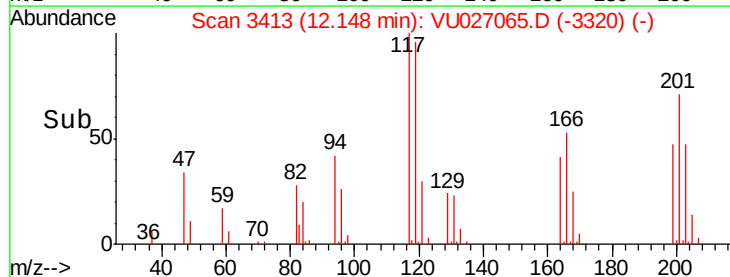
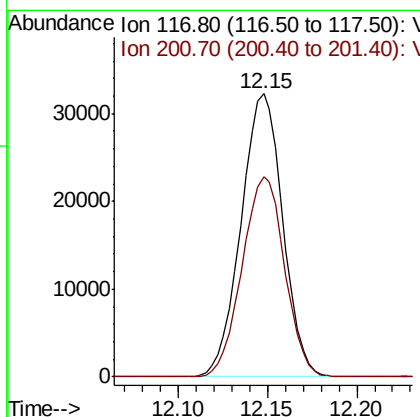
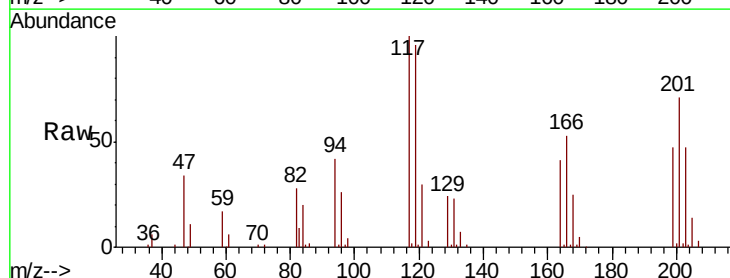
Manual Integrations
APPROVED

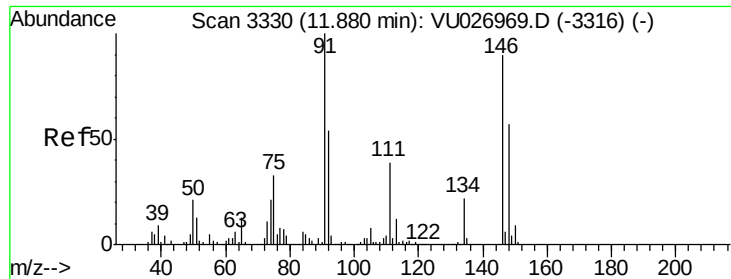
MMDadoda
9/24/2018 4:40:36 PM



#90
Hexachloroethane
Concen: 48.499 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.0	36.8	110.3





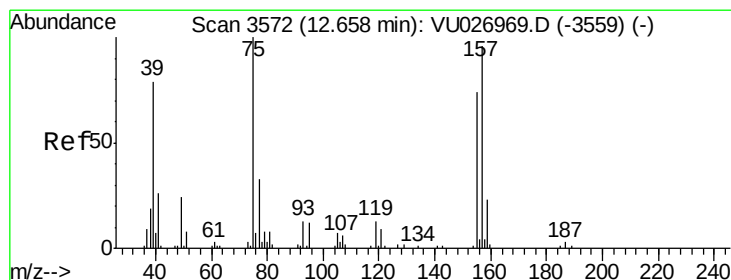
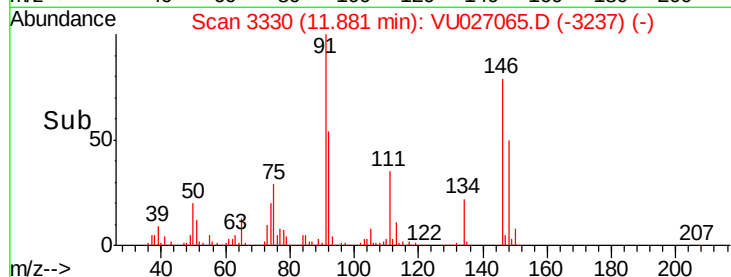
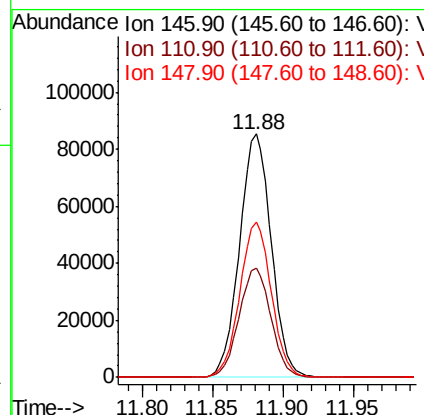
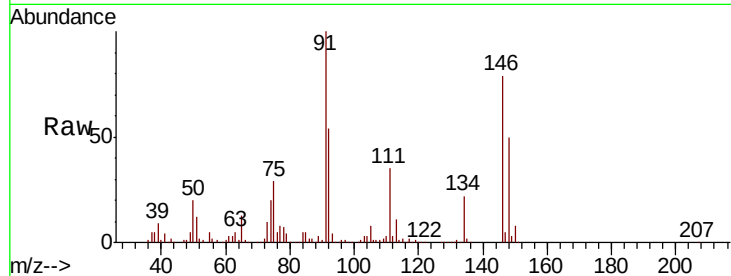
#91
 1,2-Dichlorobenzene
 Concen: 46.796 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.8	65.3
148	63.2	31.9	95.7

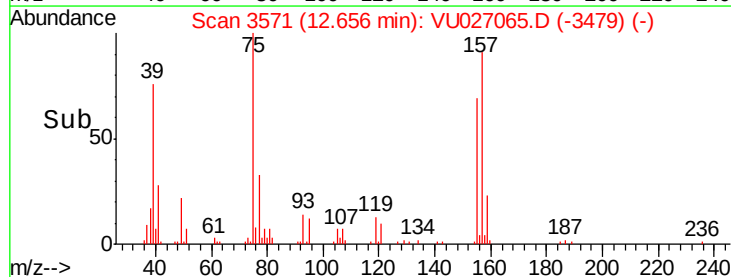
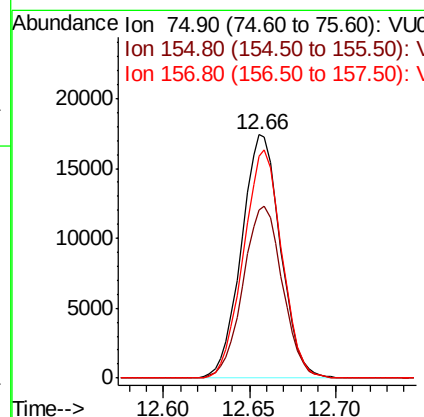
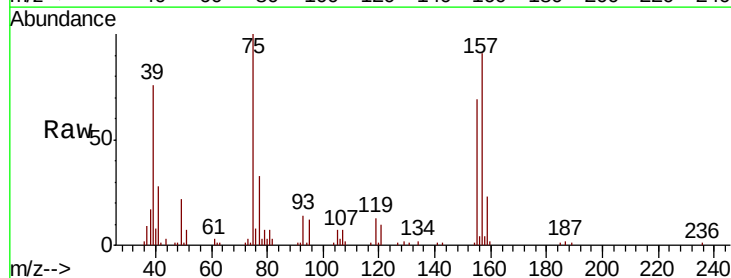
Manual Integrations
 APPROVED

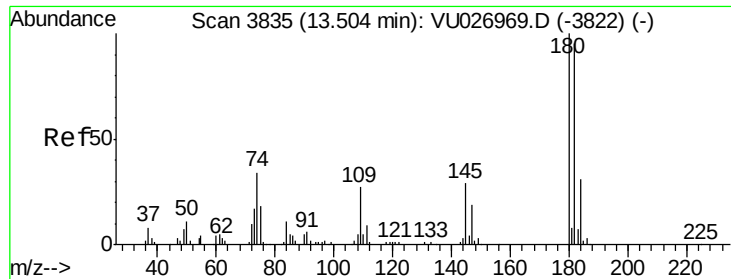
MMDadoda
 9/24/2018 4:40:36 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.896 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	71.2	36.6	109.8
157	92.0	47.4	142.2





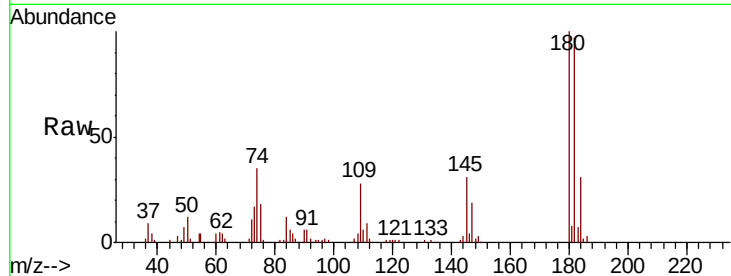
#93
 1,2,4-Trichlorobenzene
 Concen: 51.466 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.4	142.2
145	29.8	14.9	44.5

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 4:40:36 PM

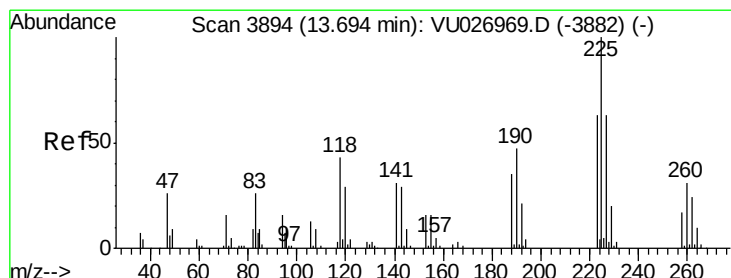
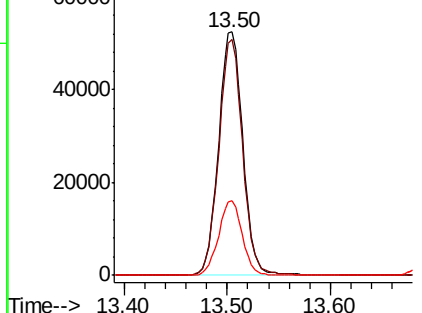
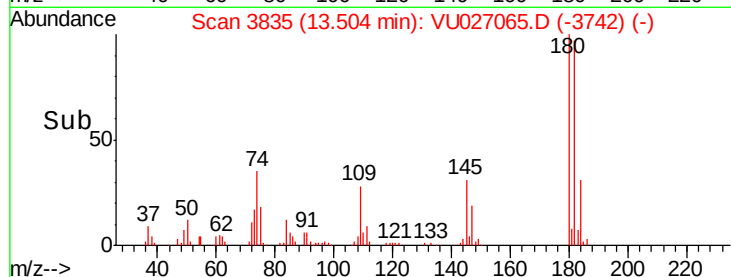


Abundance

Ion 179.80 (179.50 to 180.50): V

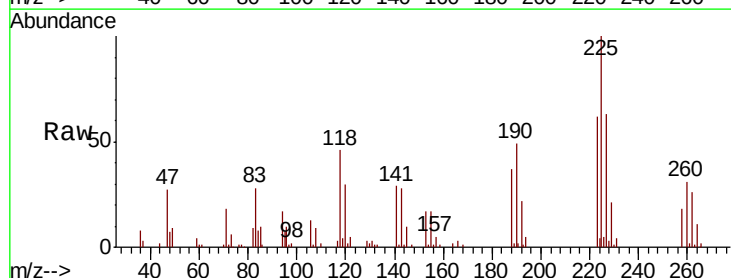
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 47.853 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU027065.D
 Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.9	95.7
227	62.8	32.1	96.5

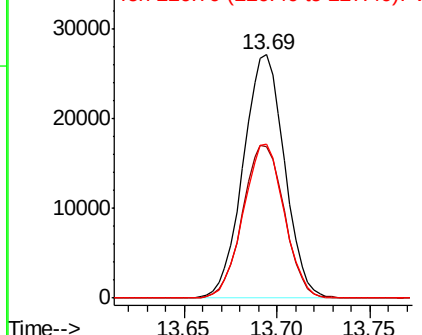
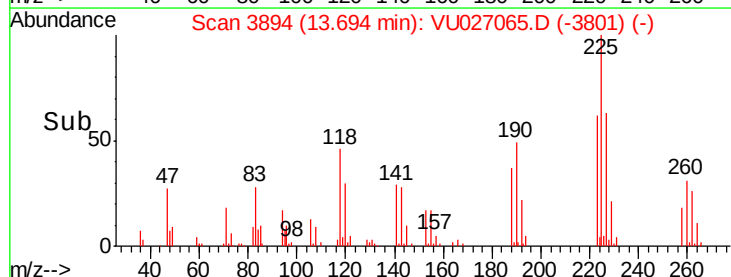


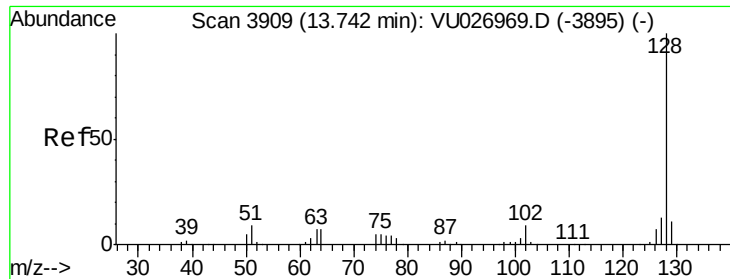
Abundance

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





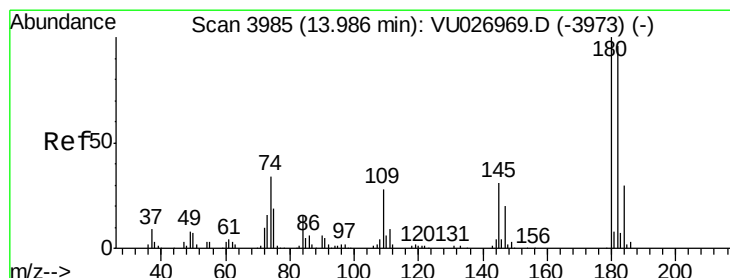
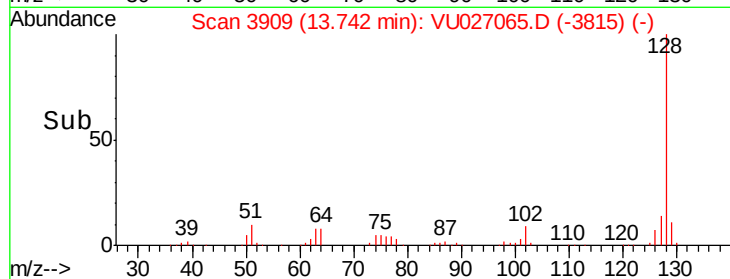
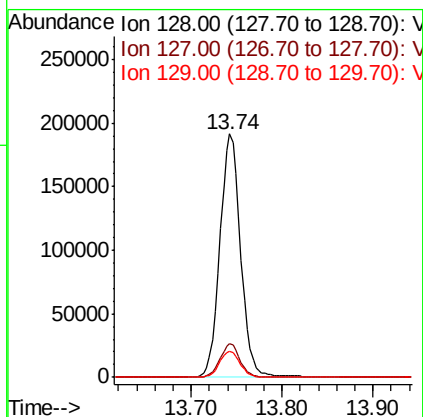
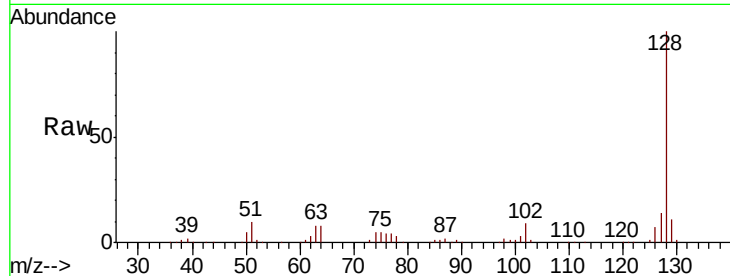
#95
Naphthalene
Concen: 46.696 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	15.8
129	10.7	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/24/2018 4:40:36 PM



#96
1,2,3-Trichlorobenzene
Concen: 50.215 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU027065.D
Acq: 23 Sep 2018 12:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.5	142.5
145	32.0	15.4	46.4

