

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110918\
 Data File : VU028036.D
 Acq On : 09 Nov 2018 11:55
 Operator : MD/SY
 Sample : VU1109MBS01
 Misc : 5.00µg/10mL/100µL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:01:47 PM

Quant Time: Nov 12 06:28:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	175458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	305749	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	281582	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	134133	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	136619	52.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.74%	
35) Dibromofluoromethane	4.88	113	100559	52.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.32%	
50) Toluene-d8	7.57	98	391026	52.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.02%	
62) 4-Bromofluorobenzene	10.31	95	142974	52.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	35202	15.789	ug/l	99
3) Chloromethane	1.33	50	52800	19.582	ug/l	100
4) Vinyl Chloride	1.40	62	51951	19.412	ug/l	99
5) Bromomethane	1.63	94	26509	26.426	ug/l	93
6) Chloroethane	1.70	64	31223	20.245	ug/l	100
7) Trichlorofluoromethane	1.89	101	60602	19.597	ug/l	97
8) Diethyl Ether	2.11	74	28201	21.298	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.29	101	38693	21.062	ug/l	97
10) Methyl Iodide	2.41	142	30557	23.060	ug/l	99
11) Tert butyl alcohol	2.82	59	67000	97.019	ug/l	100
12) 1,1-Dichloroethene	2.29	96	37151	20.203	ug/l	94
13) Acrolein	2.20	56	19719	72.810	ug/l	99
14) Allyl chloride	2.60	41	83606	18.603	ug/l	98
15) Acrylonitrile	2.94	53	175652	103.546	ug/l	99
16) Acetone	2.32	43	163199	100.834	ug/l	99
17) Carbon Disulfide	2.48	76	112906	18.784	ug/l	100
18) Methyl Acetate	2.62	43	89387	20.077	ug/l	97
19) Methyl tert-butyl Ether	3.00	73	149262	20.128	ug/l	98
20) Methylene Chloride	2.71	84	46818	19.812	ug/l	97
21) trans-1,2-Dichloroethene	2.99	96	40131	18.910	ug/l	94
22) Diisopropyl ether	3.58	45	185944	20.040	ug/l	95
23) Vinyl Acetate	3.53	43	796887	99.931	ug/l	100
24) 1,1-Dichloroethane	3.45	63	91037	19.698	ug/l	98
25) 2-Butanone	4.26	43	257414	99.972	ug/l	99
26) 2,2-Dichloropropane	4.23	77	70599	20.355	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	48751	20.486	ug/l	98
28) Bromochloromethane	4.55	49	42114	19.437	ug/l	99
29) Tetrahydrofuran	4.64	42	164410	95.624	ug/l	99
30) Chloroform	4.68	83	82554	19.481	ug/l	94
31) Cyclohexane	5.00	56	89965	18.781	ug/l	95
32) 1,1,1-Trichloroethane	4.92	97	68939	20.437	ug/l	99
36) 1,1-Dichloropropene	5.14	75	61825	19.307	ug/l	99
37) Ethyl Acetate	4.38	43	91911	19.589	ug/l	99
38) Carbon Tetrachloride	5.14	117	54930	19.356	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110918\
 Data File : VU028036.D
 Acq On : 09 Nov 2018 11:55
 Operator : MD/SY
 Sample : VU1109MBS01
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VU1109MBS01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:01:47 PM

Quant Time: Nov 12 06:28:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	75488	19.545	ug/l	99
40) Benzene	5.39	78	195640	19.983	ug/l	98
41) Methacrylonitrile	4.55	41	51002	20.369	ug/l	97
42) 1,2-Dichloroethane	5.41	62	69760	20.046	ug/l	99
43) Isopropyl Acetate	5.55	43	144491	19.656	ug/l	99
44) Trichloroethene	6.19	130	42364	20.130	ug/l	95
45) 1,2-Dichloropropane	6.43	63	56329	19.950	ug/l	99
46) Dibromomethane	6.56	93	32875	20.256	ug/l	98
47) Bromodichloromethane	6.76	83	61363	19.620	ug/l	99
48) Methyl methacrylate	6.62	41	72284	20.066	ug/l	99
49) 1,4-Dioxane	6.61	88	25946	441.476	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	477896	97.348	ug/l	100
52) Toluene	7.64	92	114820	19.949	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	71531	19.148	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	79437	20.603	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	46966	20.057	ug/l	95
56) Ethyl methacrylate	8.02	69	81577	19.755	ug/l	99
57) 1,3-Dichloropropane	8.24	76	84542	19.820	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	211058	95.429	ug/l	100
59) 2-Hexanone	8.36	43	372352	98.067	ug/l	100
60) Dibromochloromethane	8.48	129	44159	19.928	ug/l	99
61) 1,2-Dibromoethane	8.59	107	49174	19.763	ug/l	99
64) Tetrachloroethene	8.23	164	35756	19.583	ug/l	98
65) Chlorobenzene	9.12	112	116846	19.641	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	41133	20.243	ug/l	100
67) Ethyl Benzene	9.25	91	217355	19.849	ug/l	99
68) m/p-Xylenes	9.38	106	158151	39.804	ug/l	99
69) o-Xylene	9.78	106	77807	19.393	ug/l	98
70) Styrene	9.79	104	125464	19.571	ug/l	99
71) Bromoform	9.96	173	32263	18.945	ug/l #	99
73) Isopropylbenzene	10.17	105	207522	19.971	ug/l	99
74) N-amyl acetate	10.01	43	125856	20.030	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	82032	19.571	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	71377m	19.454	ug/l	
77) Bromobenzene	10.45	156	48406	20.316	ug/l	100
78) n-propylbenzene	10.59	91	249870	20.089	ug/l	98
79) 2-Chlorotoluene	10.66	91	148707	19.946	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	172870	20.083	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	22632m	15.584	ug/l	
82) 4-Chlorotoluene	10.77	91	164444	19.429	ug/l	100
83) tert-Butylbenzene	11.10	119	168476	19.578	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	175548	20.253	ug/l	97
85) sec-Butylbenzene	11.32	105	209960	20.062	ug/l	100
86) p-Isopropyltoluene	11.48	119	174825	19.982	ug/l	98
87) 1,3-Dichlorobenzene	11.42	146	83904	19.063	ug/l	98
88) 1,4-Dichlorobenzene	11.51	146	83876	18.592	ug/l	96
89) n-Butylbenzene	11.89	91	157473	18.939	ug/l	100
90) Hexachloroethane	12.15	117	30791	19.768	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	87494	19.767	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.66	75	16799	19.021	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110918\
Data File : VU028036.D
Acq On : 09 Nov 2018 11:55
Operator : MD/SY
Sample : VU1109MBS01
Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

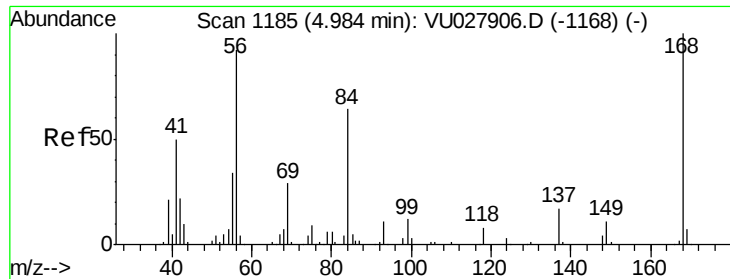
Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM

Quant Time: Nov 12 06:28:48 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	53446	17.666	ug/l	97
94) Hexachlorobutadiene	13.69	225	26933	19.145	ug/l	97
95) Naphthalene	13.74	128	197676	17.850	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	56553	19.040	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion:168 Resp: 175458

Ion Ratio Lower Upper

168 100

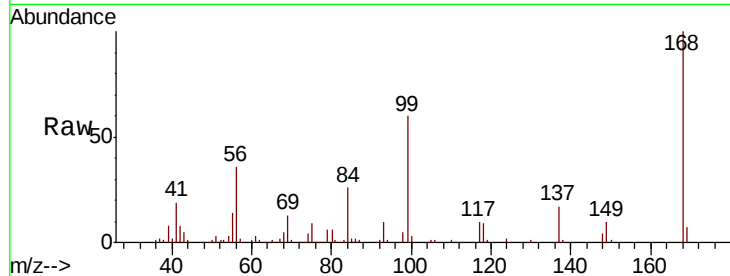
99 59.0 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:47 PM



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

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

80000

60000

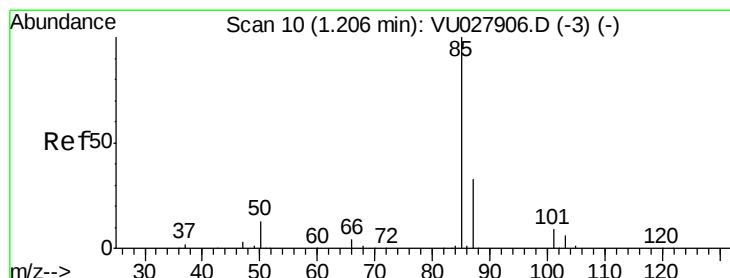
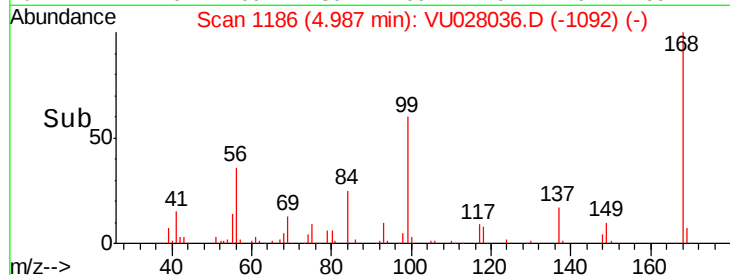
40000

20000

0

4.90 4.95 5.00 5.05

Time-->



#2

Dichlorodifluoromethane

Concen: 15.789 ug/l

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU028036.D

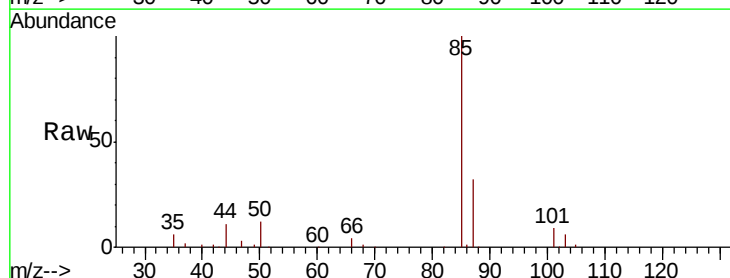
Acq: 09 Nov 2018 11:55

Tgt Ion: 85 Resp: 35202

Ion Ratio Lower Upper

85 100

87 32.3 16.5 49.5



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

Ion 86.90 (86.60 to 87.60): VU027906.D (-3) (-)

40000

30000

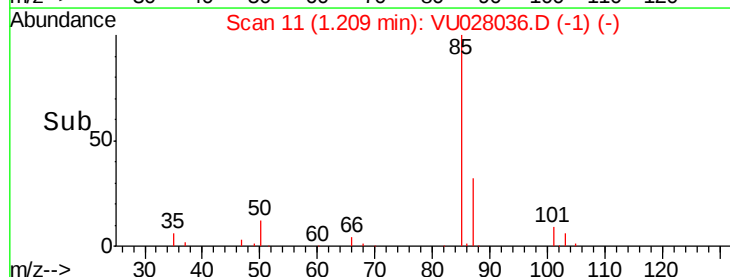
20000

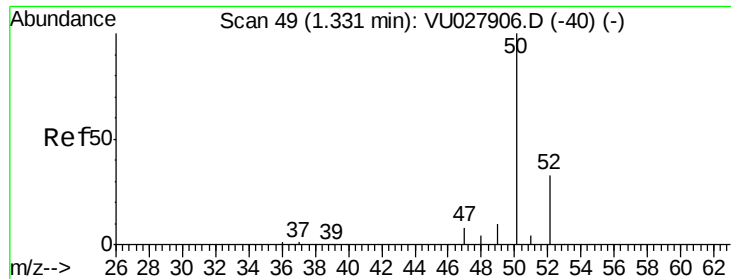
10000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 19.582 ug/l

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 50 Resp: 52800

Ion Ratio Lower Upper

50 100

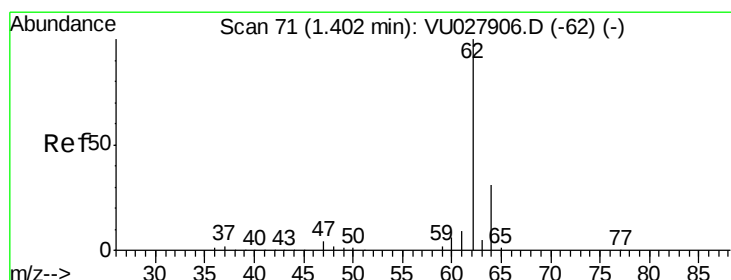
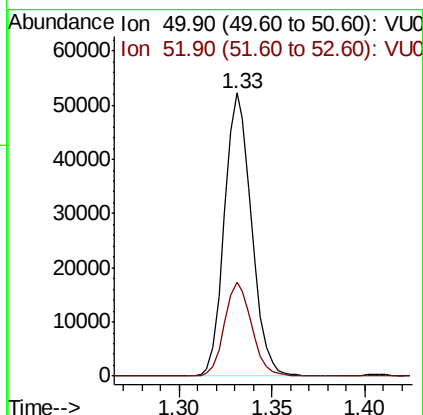
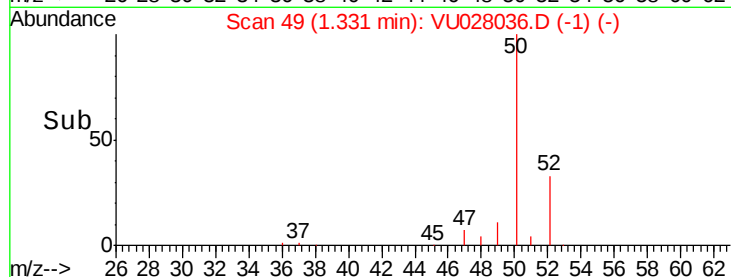
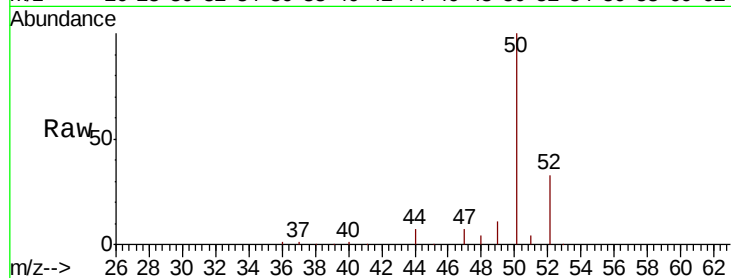
52 33.0 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:47 PM



#4

Vinyl Chloride

Concen: 19.412 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028036.D

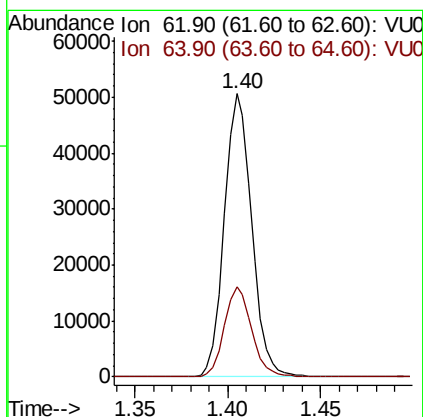
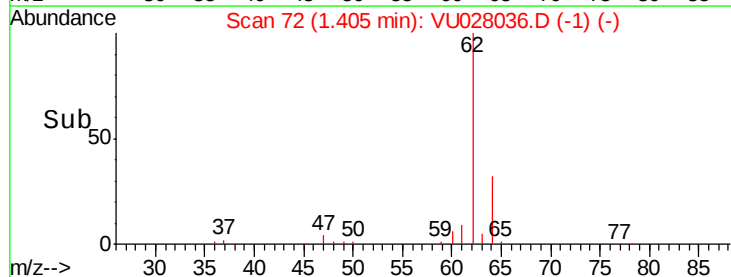
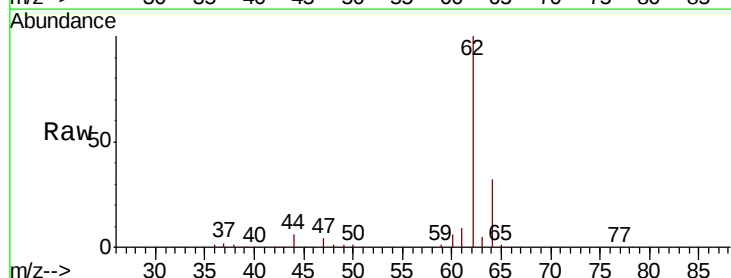
Acq: 09 Nov 2018 11:55

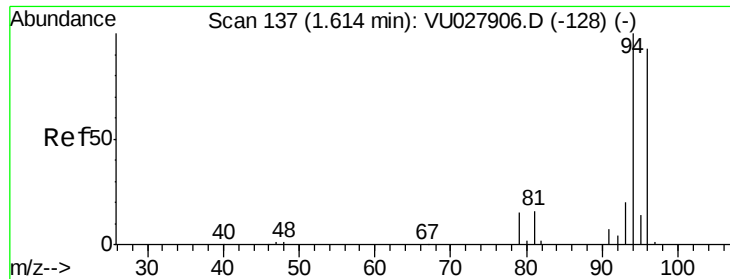
Tgt Ion: 62 Resp: 51951

Ion Ratio Lower Upper

62 100

64 32.0 25.2 37.8





#5

Bromomethane

Concen: 26.426 ug/l

RT: 1.63 min Scan# 141

Delta R.T. 0.01 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 94 Resp: 26509

Ion Ratio Lower Upper

94 100

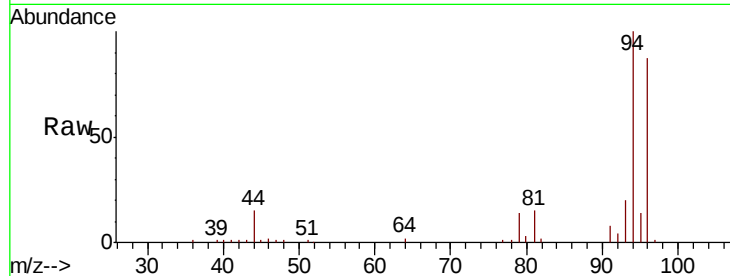
96 87.1 74.8 112.2

Manual Integrations

APPROVED

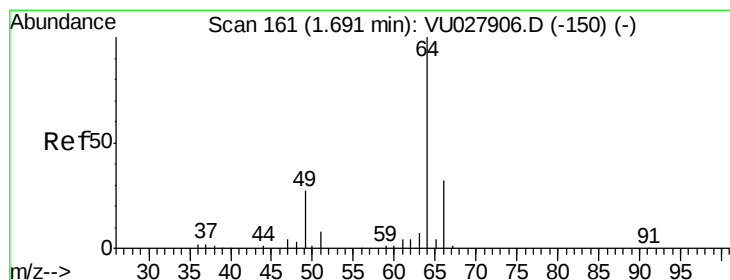
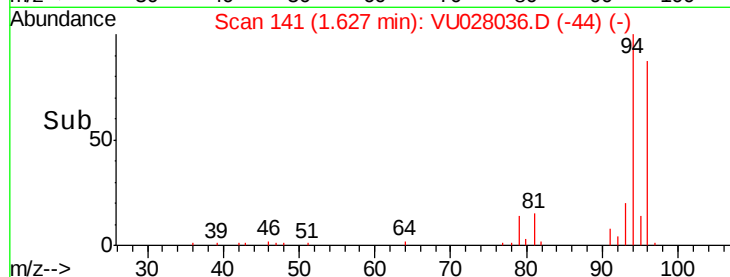
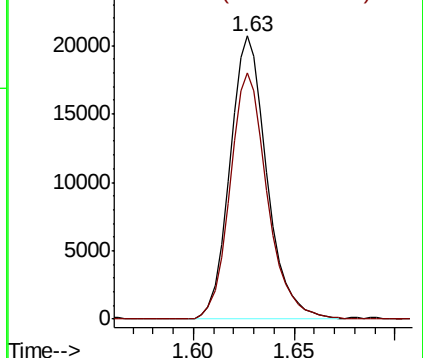
MMDadoda

11/12/2018 12:01:47 PM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.245 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU028036.D

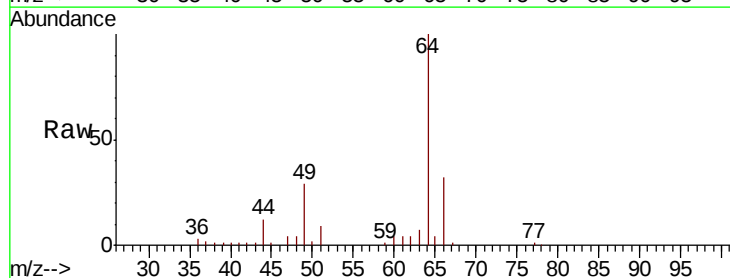
Acq: 09 Nov 2018 11:55

Tgt Ion: 64 Resp: 31223

Ion Ratio Lower Upper

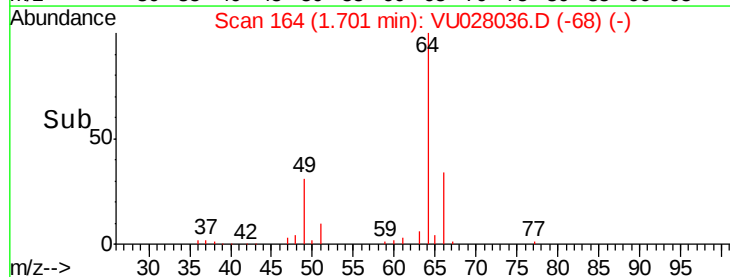
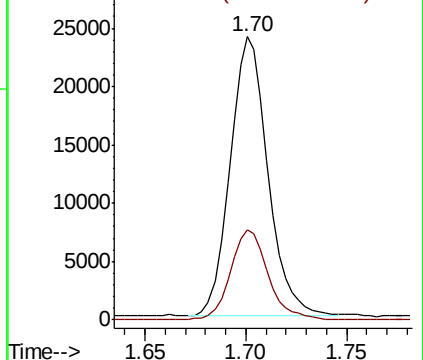
64 100

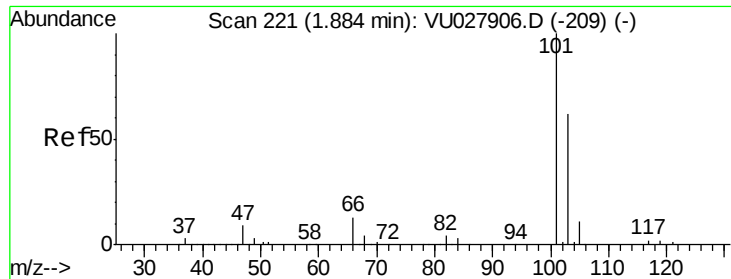
66 32.5 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

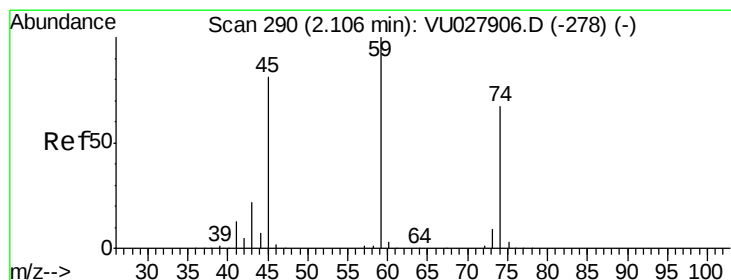
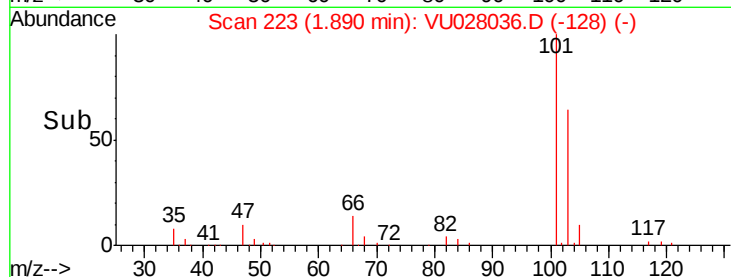
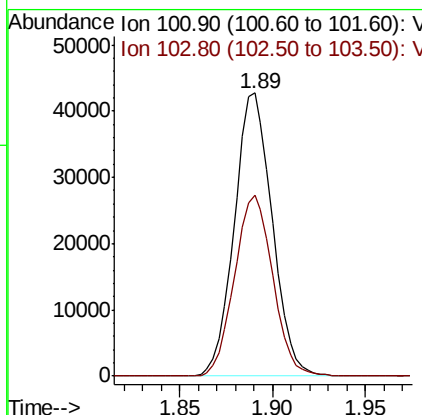
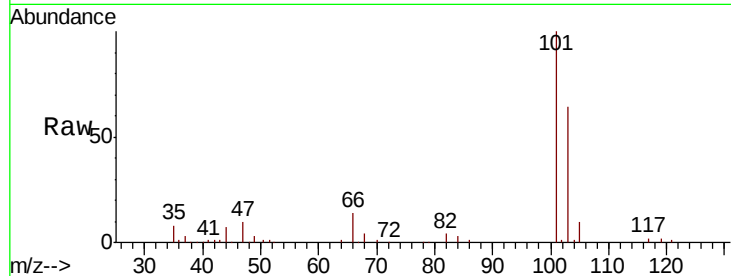
Trichlorofluoromethane
Concen: 19.597 ug/l
RT: 1.89 min Scan# 223
Delta R.T. 0.01 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	49.4	74.2

Manual Integrations
APPROVED

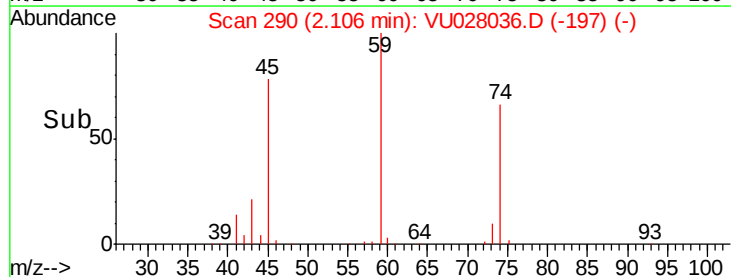
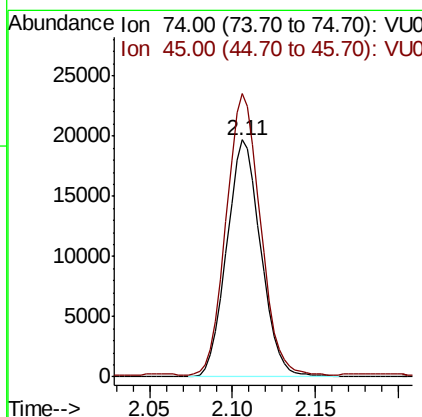
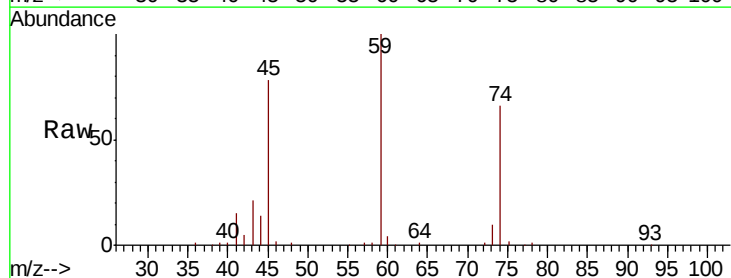
MMDadoda
11/12/2018 12:01:47 PM

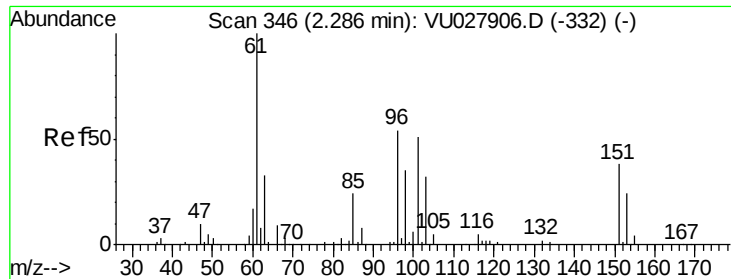


#8

Diethyl Ether
Concen: 21.298 ug/l
RT: 2.11 min Scan# 290
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
74	100		
45	118.4	60.5	181.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.062 ug/l

RT: 2.29 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

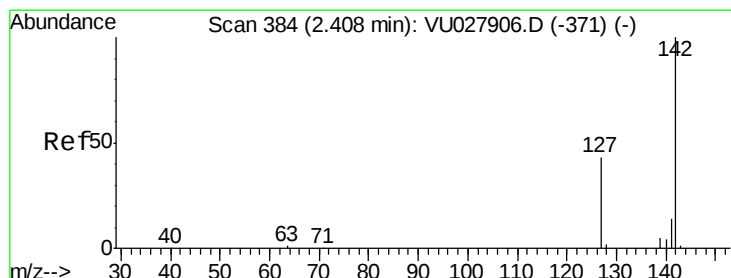
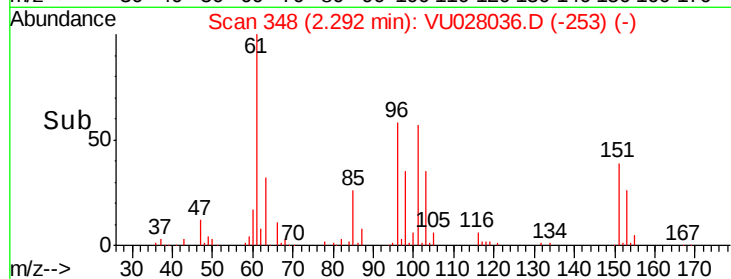
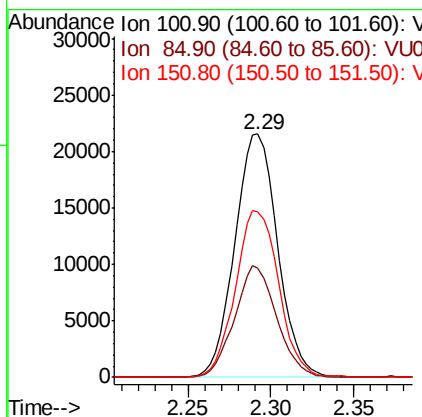
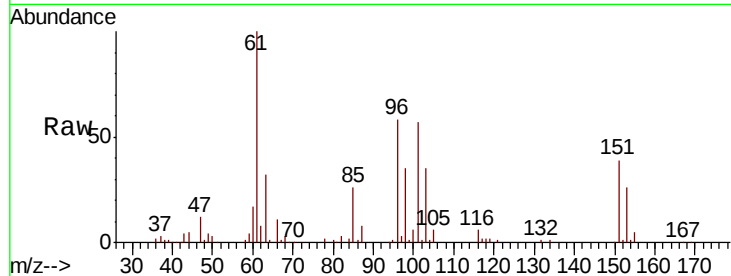
ClientSampleId :

VU1109MBS01

Tot Ion:	101	Resp:	38693
Ion Ratio	Lower	Upper	
101	100		
85	45.0	36.9	55.3
151	69.3	58.0	87.0

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#10

Methyl Iodide

Concen: 23.060 ug/l

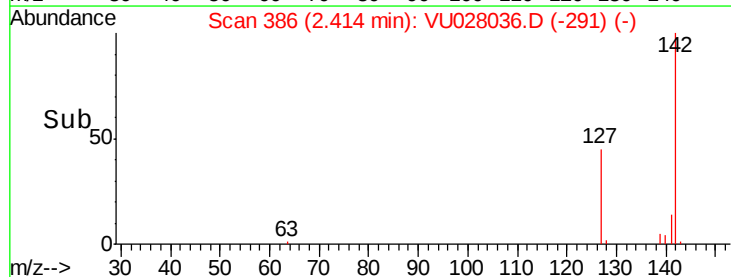
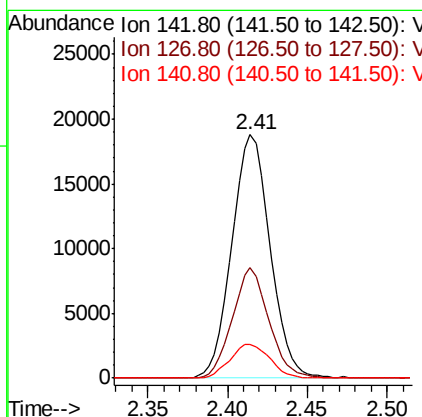
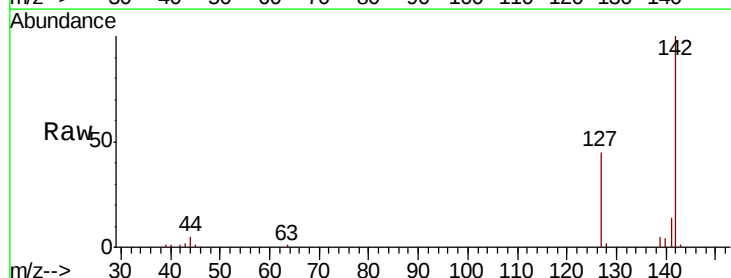
RT: 2.41 min Scan# 386

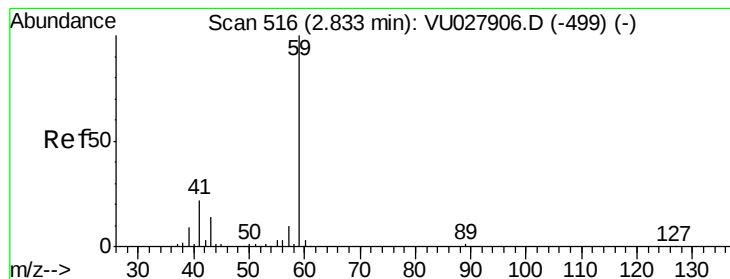
Delta R.T. 0.01 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Tgt Ion:	142	Resp:	30557
Ion Ratio	Lower	Upper	
142	100		
127	42.9	35.2	52.8
141	14.4	11.8	17.8





#11

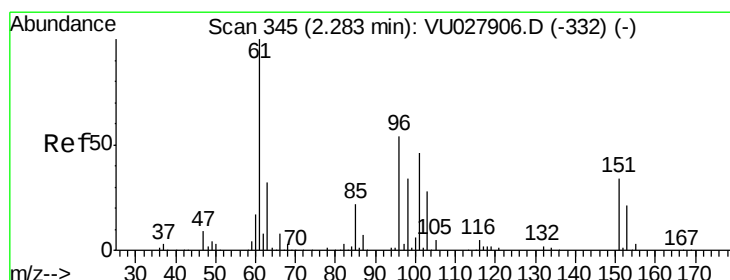
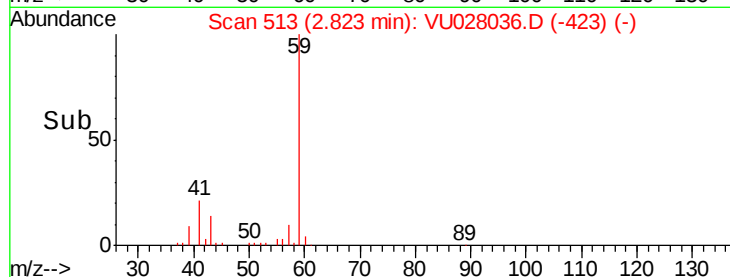
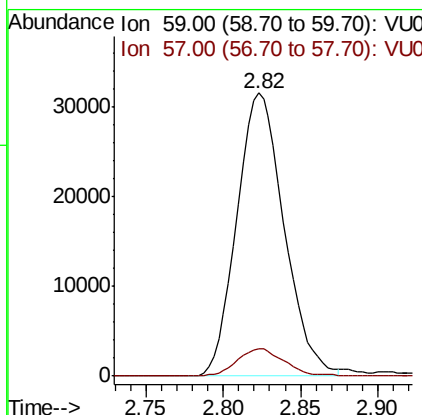
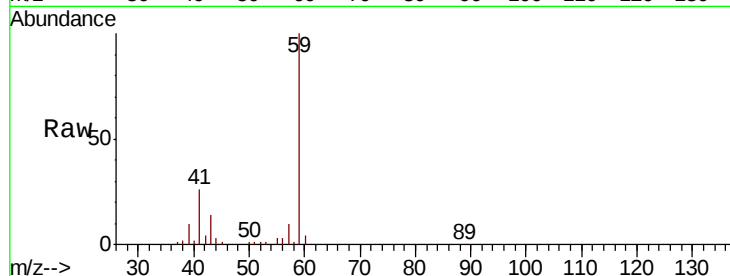
Tert butyl alcohol
Concen: 97.019 ug/l
RT: 2.82 min Scan# 513
Delta R.T. -0.01 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.8	11.8

Manual Integrations
APPROVED

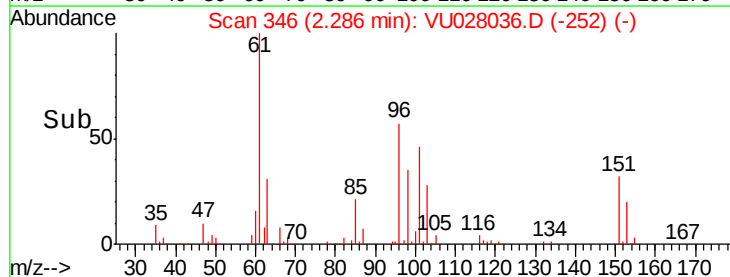
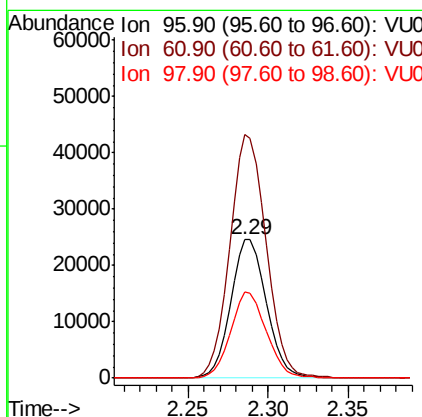
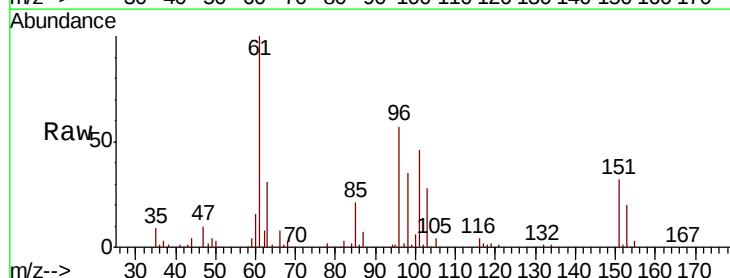
MMDadoda
11/12/2018 12:01:47 PM



#12

1,1-Dichloroethene
Concen: 20.203 ug/l
RT: 2.29 min Scan# 346
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.9	149.3	223.9
98	62.2	50.6	75.8





#13

Acrolein

Concen: 72.810 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 56 Resp: 19719

Ion Ratio Lower Upper

56 100

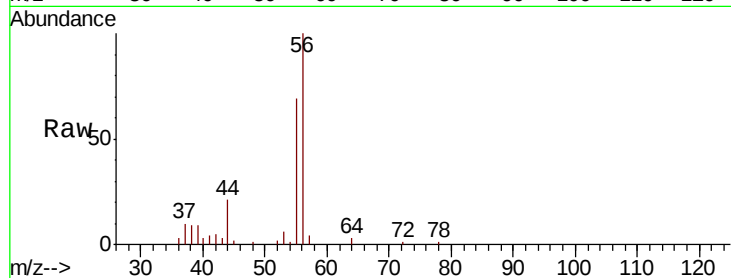
55 69.8 56.2 84.4

Manual Integrations

APPROVED

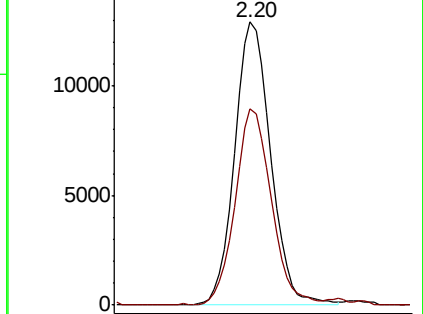
MMDadoda

11/12/2018 12:01:47 PM

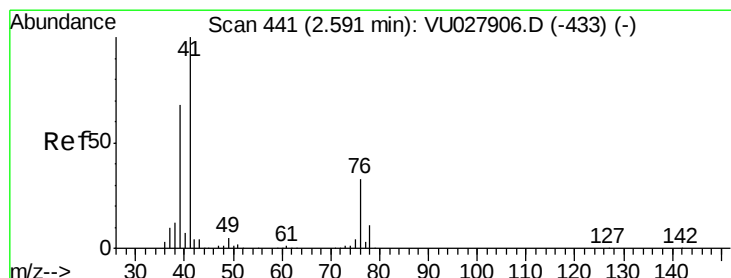
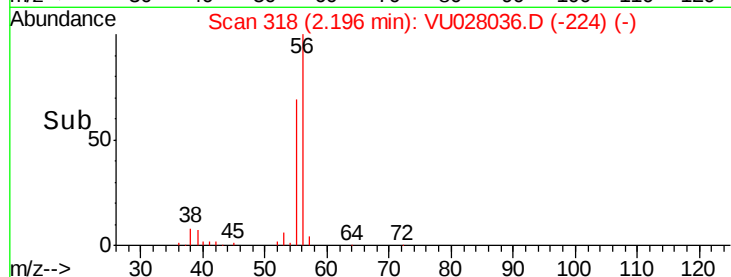


Abundance Ion 56.00 (55.70 to 56.70): VU028036.D (-224) (-)

Ion 55.00 (54.70 to 55.70): VU028036.D (-224) (-)



Time-->



#14

Allyl chloride

Concen: 18.603 ug/l

RT: 2.60 min Scan# 443

Delta R.T. 0.01 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

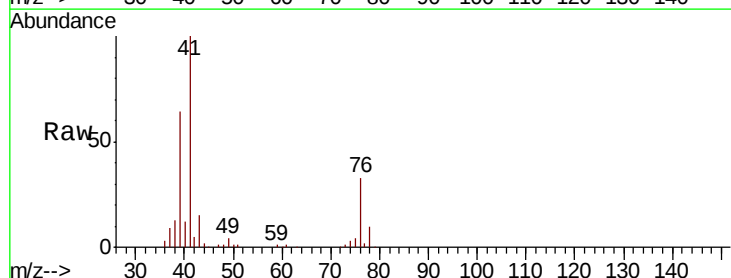
Tgt Ion: 41 Resp: 83606

Ion Ratio Lower Upper

41 100

39 63.5 51.9 77.9

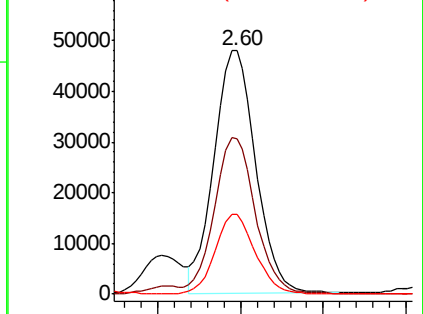
76 31.5 23.8 35.6



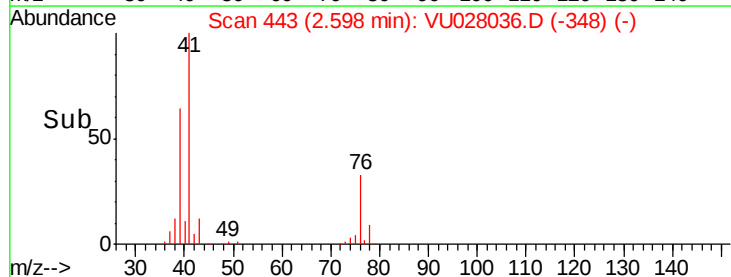
Abundance Ion 41.00 (40.70 to 41.70): VU028036.D (-348) (-)

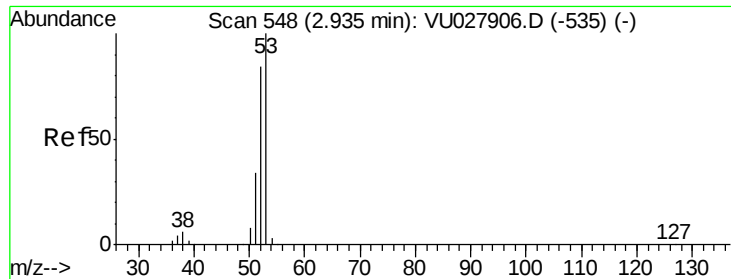
Ion 39.00 (38.70 to 39.70): VU028036.D (-348) (-)

Ion 75.90 (75.60 to 76.60): VU028036.D (-348) (-)



Time-->





#15

Acrylonitrile

Concen: 103.546 ug/l

RT: 2.94 min Scan# 548

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

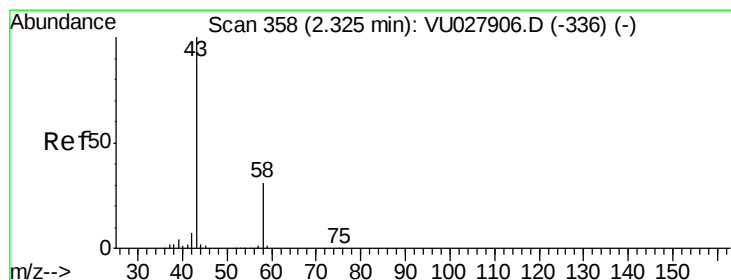
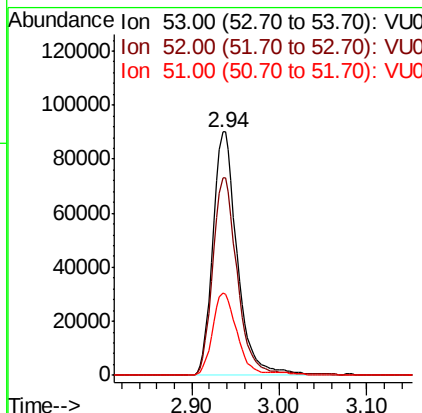
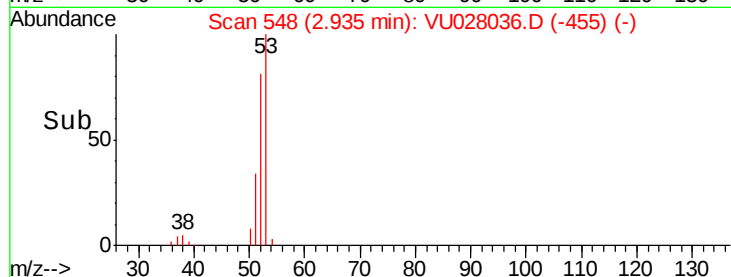
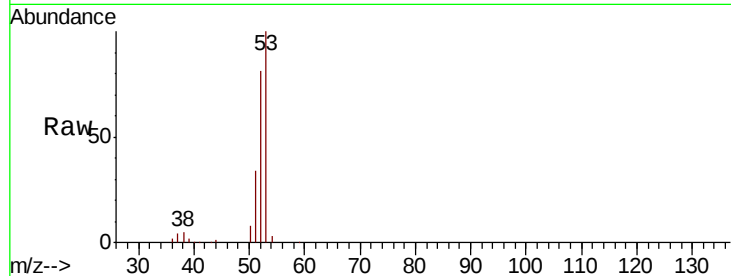
ClientSampleId :

VU1109MBS01

Tot Ion:	53	Resp:	175652
Ion Ratio	Lower	Upper	
53	100		
52	81.2	66.2	99.2
51	33.4	27.0	40.4

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#16

Acetone

Concen: 100.834 ug/l

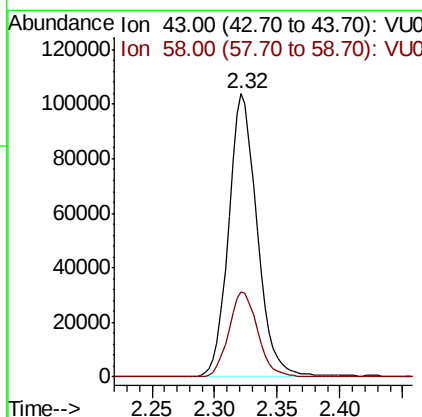
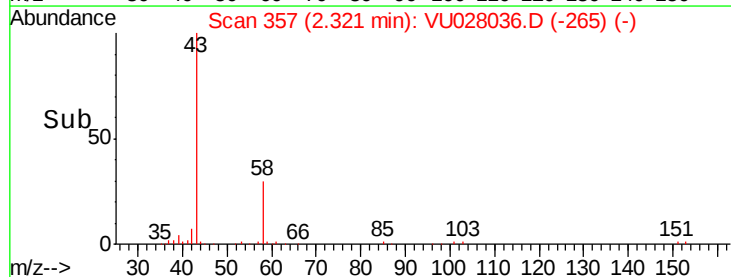
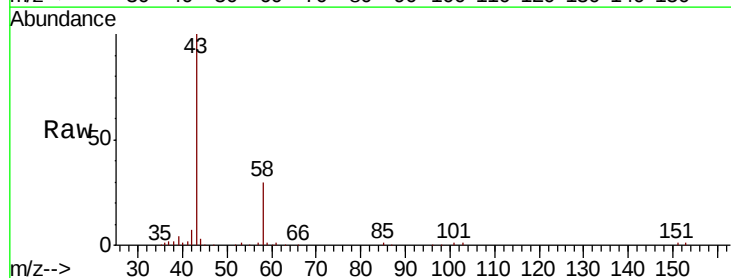
RT: 2.32 min Scan# 357

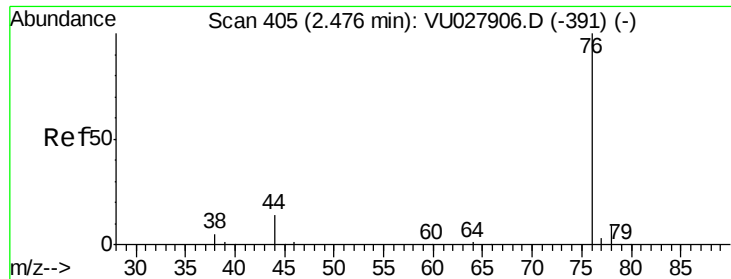
Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Tgt Ion:	43	Resp:	163199
Ion Ratio	Lower	Upper	
43	100		
58	30.2	24.6	37.0





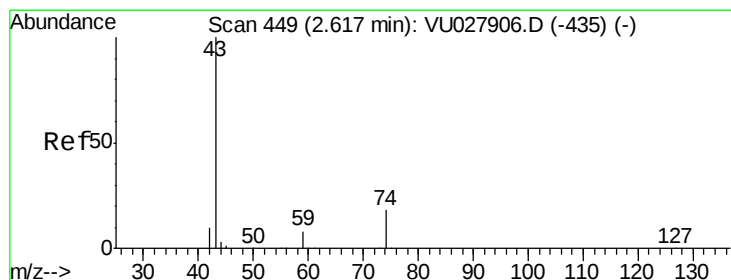
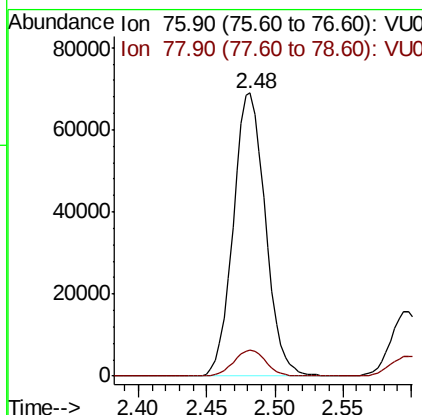
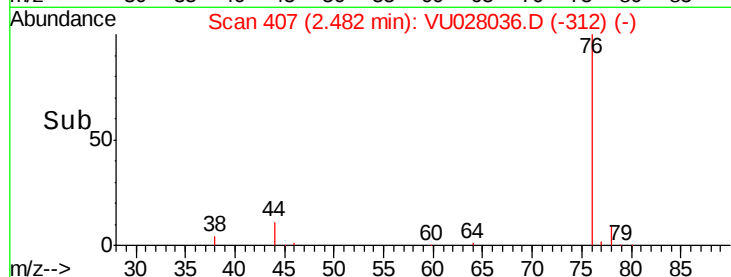
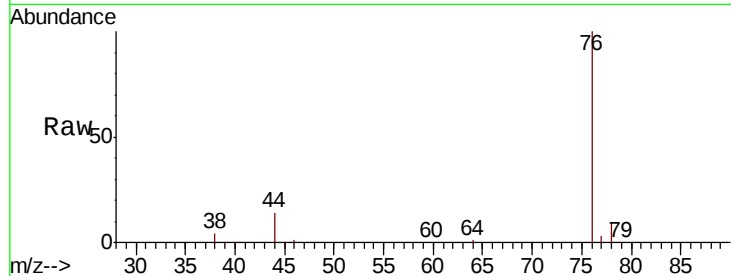
#17
Carbon Disulfide
Concen: 18.784 ug/l
RT: 2.48 min Scan# 407
Delta R.T. 0.01 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

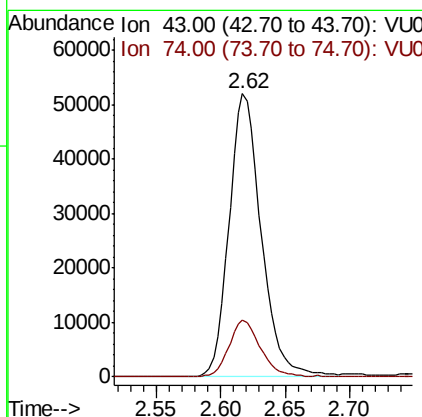
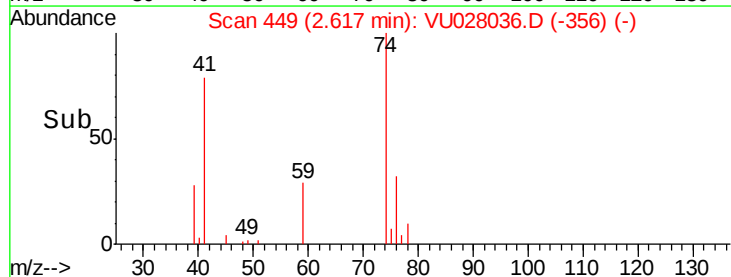
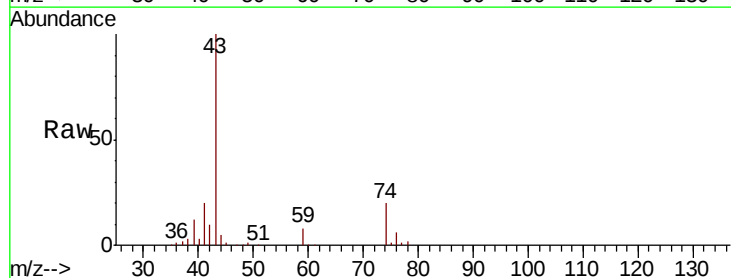
Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#18
Methyl Acetate
Concen: 20.077 ug/l
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.8	14.9	22.3





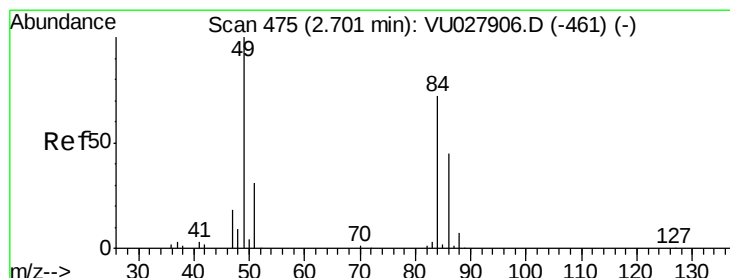
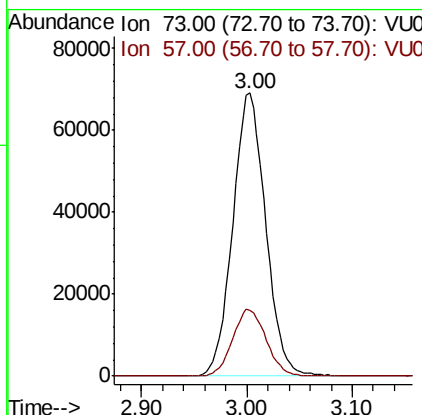
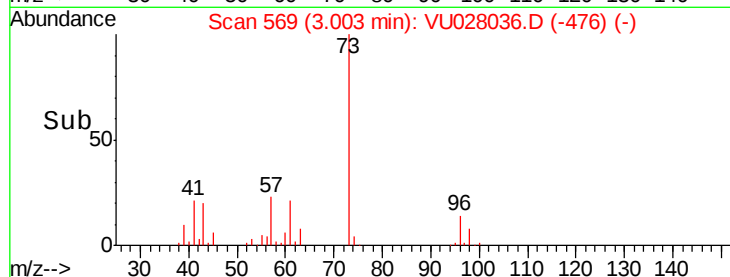
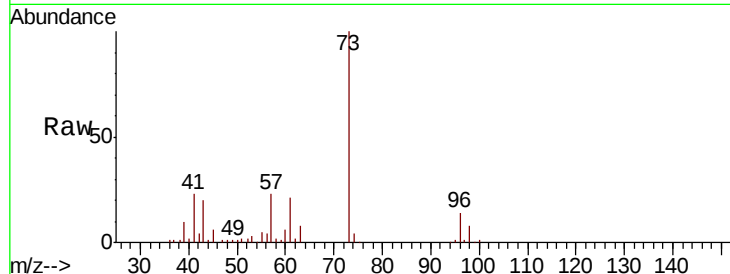
#19
Methyl tert-butyl Ether
Concen: 20.128 ug/l
RT: 3.00 min Scan# 569
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.3	19.3	28.9

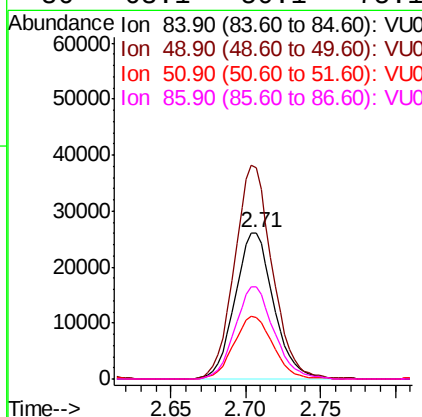
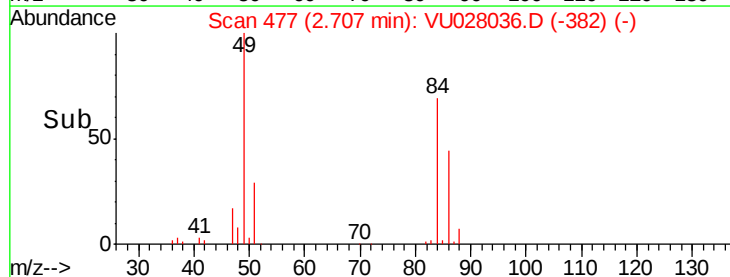
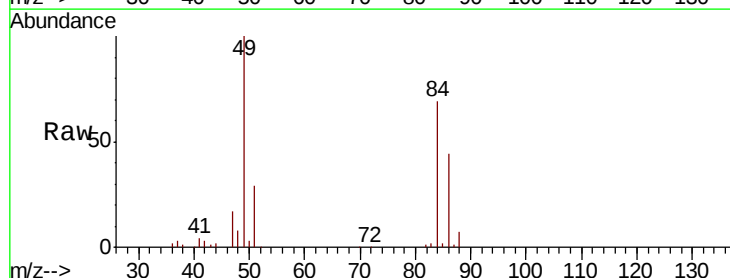
Manual Integrations
APPROVED

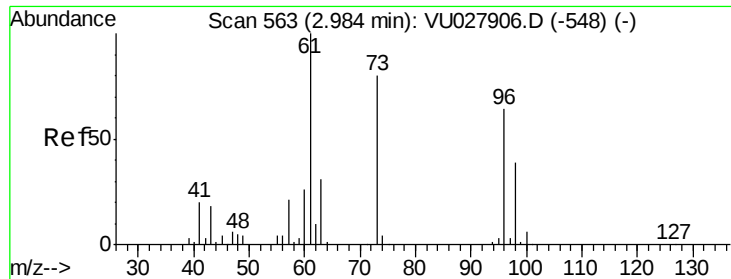
MMDadoda
11/12/2018 12:01:47 PM



#20
Methylene Chloride
Concen: 19.812 ug/l
RT: 2.71 min Scan# 477
Delta R.T. 0.01 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.5	111.6	167.4
51	42.1	34.8	52.2
86	63.1	50.1	75.1





#21

trans-1,2-Dichloroethene

Concen: 18.910 ug/l

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

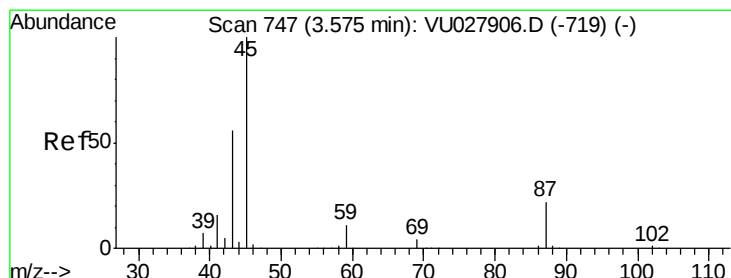
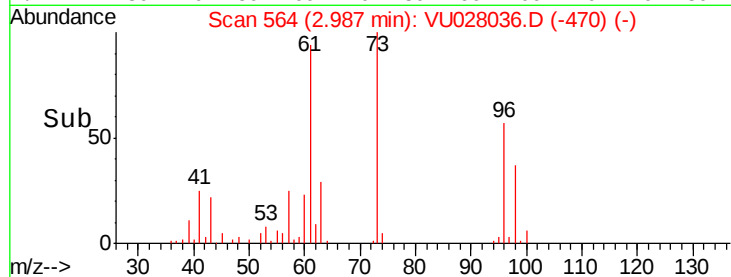
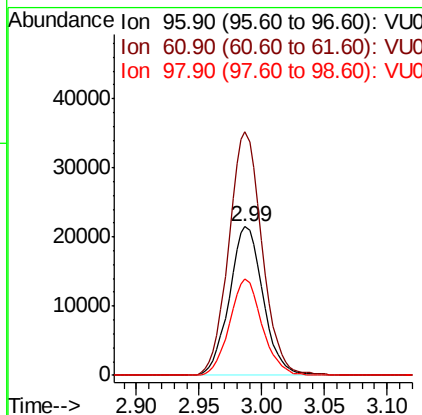
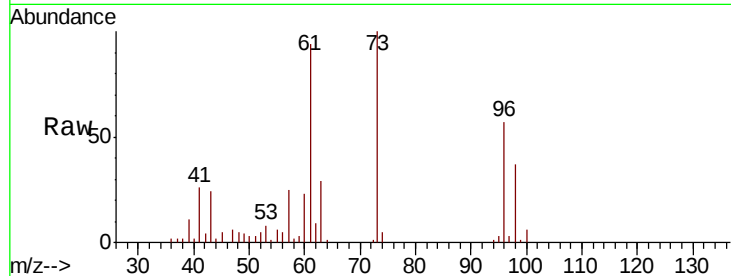
ClientSampleId :

VU1109MBS01

Tot Ion:	96	Resp:	40131
Ion	Ratio	Lower	Upper
96	100		
61	163.8	125.0	187.6
98	64.8	48.2	72.4

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#22

Diisopropyl ether

Concen: 20.040 ug/l

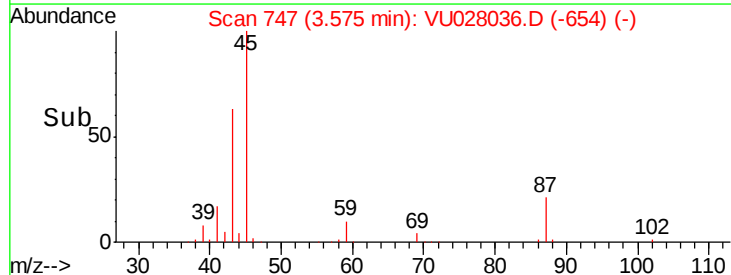
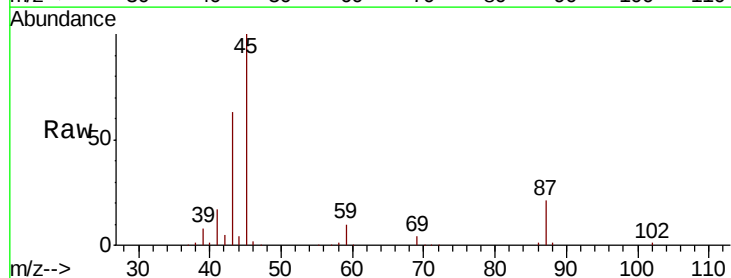
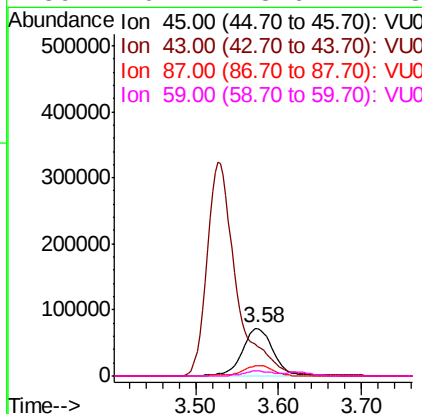
RT: 3.58 min Scan# 747

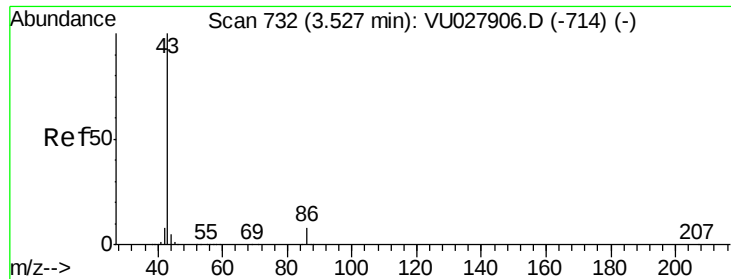
Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Tgt Ion:	45	Resp:	185944
Ion	Ratio	Lower	Upper
45	100		
43	61.3	45.0	67.6
87	21.4	17.9	26.9
59	10.2	8.6	12.8





#23

Vinyl Acetate

Concen: 99.931 ug/l

RT: 3.53 min Scan# 732

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 43 Resp: 796887

Ion Ratio Lower Upper

43 100

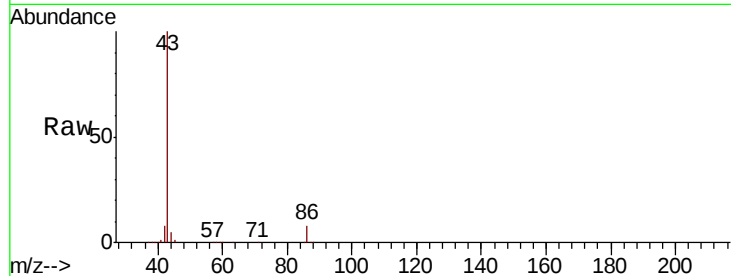
86 8.2 6.6 9.8

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:47 PM



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-714) (-)

Ion 86.00 (85.70 to 86.70): VU027906.D (-714) (-)

3.53

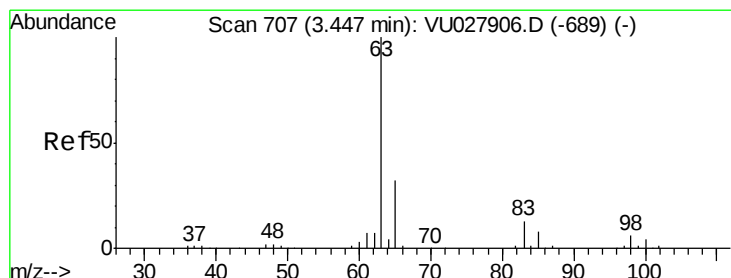
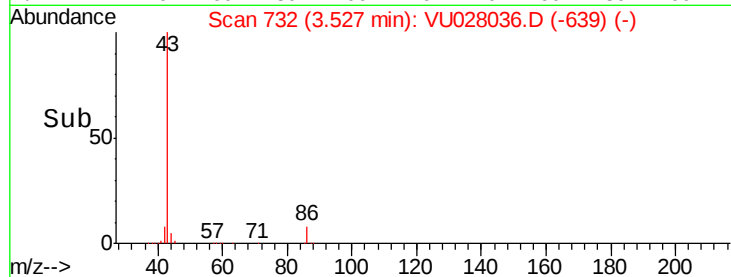
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.698 ug/l

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

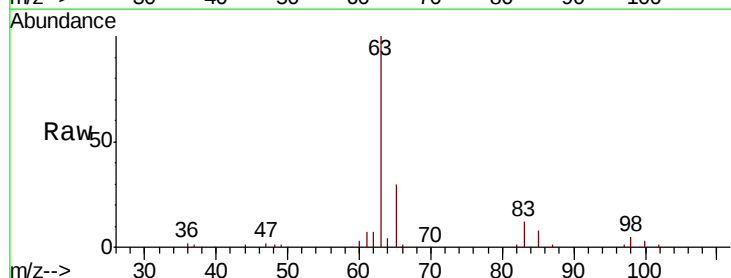
Tgt Ion: 63 Resp: 91037

Ion Ratio Lower Upper

63 100

98 5.0 2.9 8.6

100 3.2 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VU027906.D (-689) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-689) (-)

Ion 99.90 (99.60 to 100.60): VU027906.D (-689) (-)

3.45

50000

40000

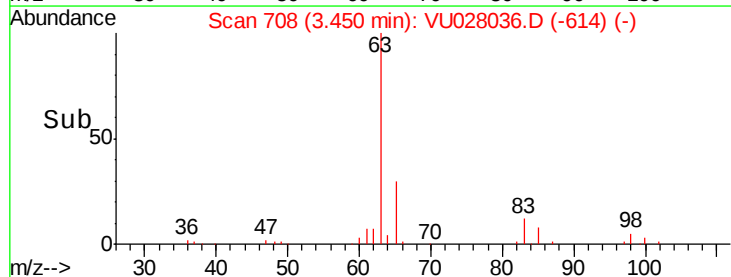
30000

20000

10000

0

Time-->





#25

2-Butanone

Concen: 99.972 ug/l

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 43 Resp: 257414

Ion Ratio Lower Upper

43 100

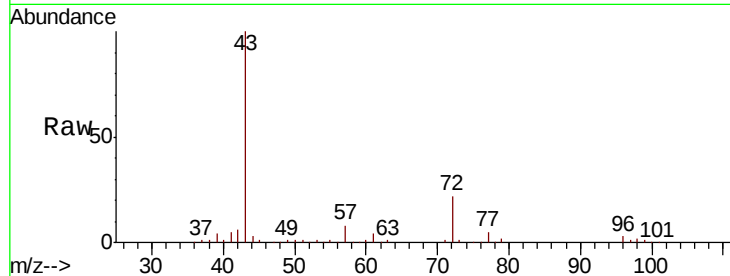
72 22.4 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:47 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.26

120000

100000

80000

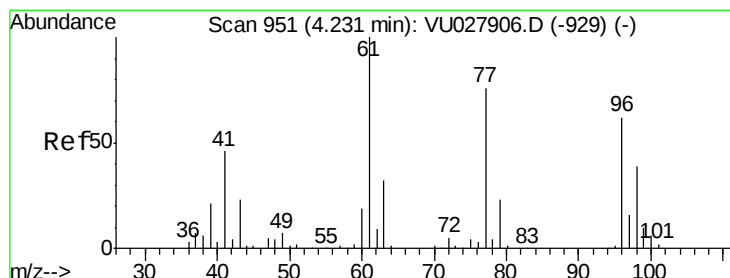
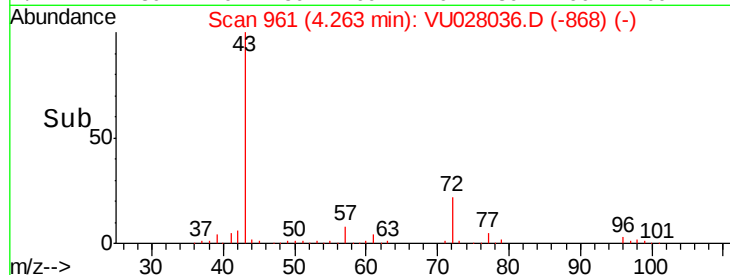
60000

40000

20000

0

Time--> 4.15 4.20 4.25 4.30 4.35



#26

2,2-Dichloropropane

Concen: 20.355 ug/l

RT: 4.23 min Scan# 951

Delta R.T. -0.00 min

Lab File: VU028036.D

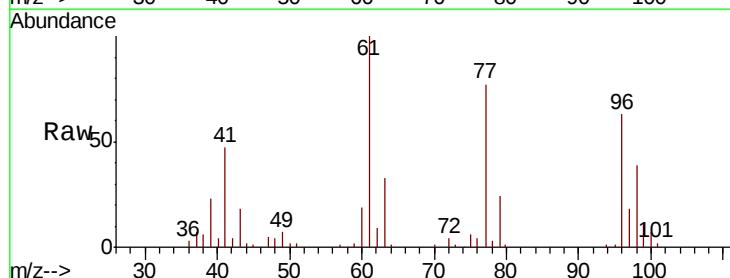
Acq: 09 Nov 2018 11:55

Tgt Ion: 77 Resp: 70599

Ion Ratio Lower Upper

77 100

97 22.0 11.2 33.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

4.23

30000

25000

20000

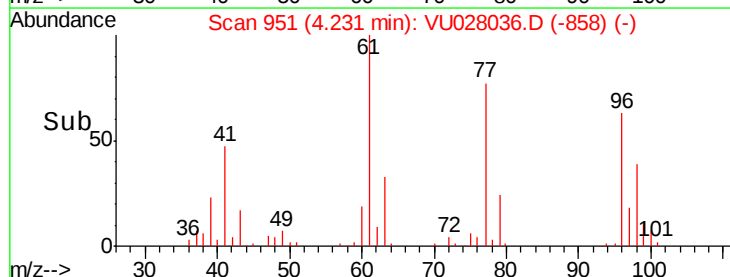
15000

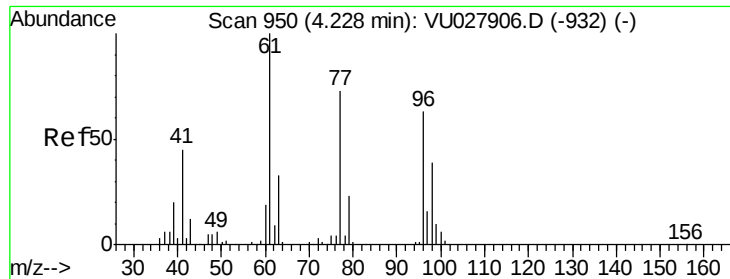
10000

5000

0

Time--> 4.10 4.20 4.30





#27

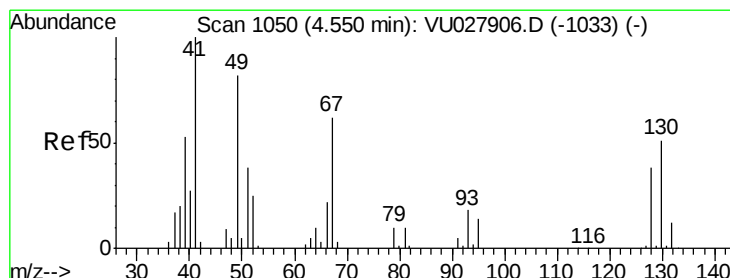
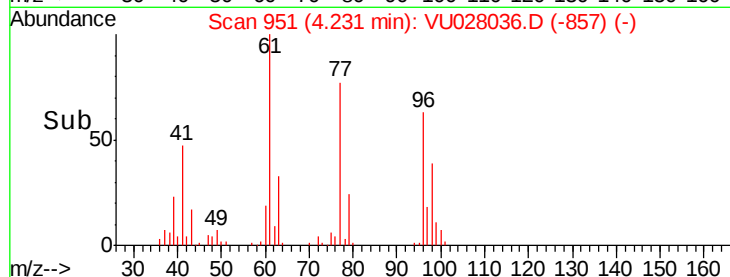
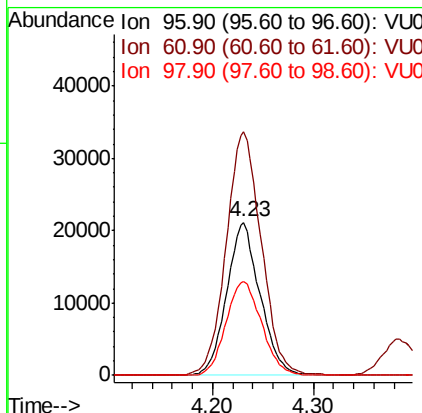
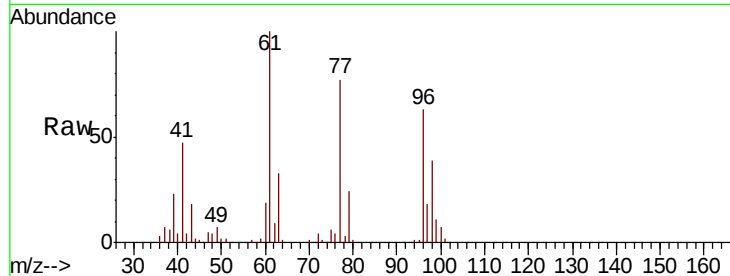
cis-1,2-Dichloroethene
 Concen: 20.486 ug/l
 RT: 4.23 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	167.3	0.0	329.6
98	65.3	0.0	127.2

Manual Integrations
 APPROVED

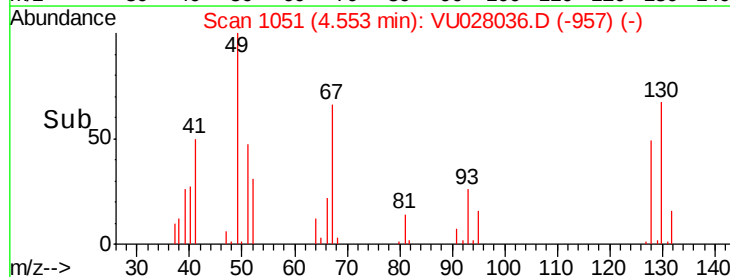
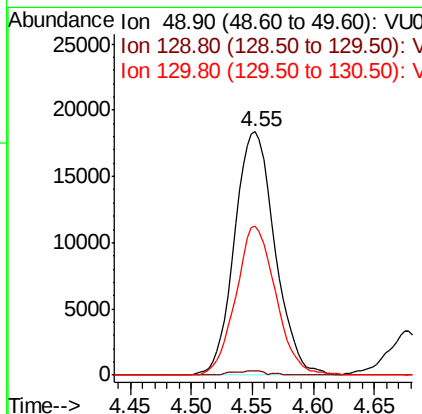
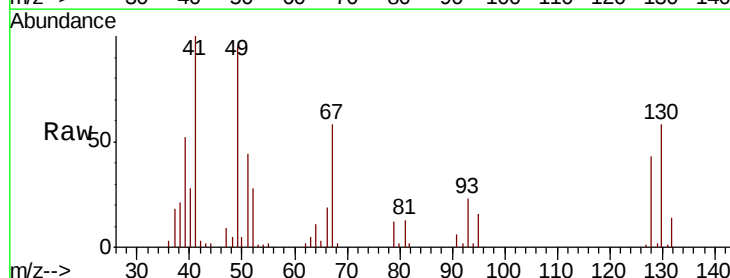
MMDadoda
 11/12/2018 12:01:47 PM

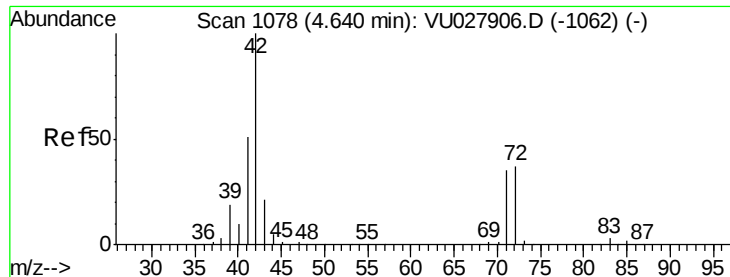


#28

Bromochloromethane
 Concen: 19.437 ug/l
 RT: 4.55 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.0
130	60.5	47.8	71.6





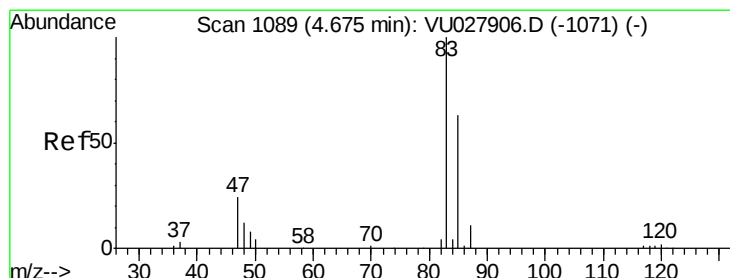
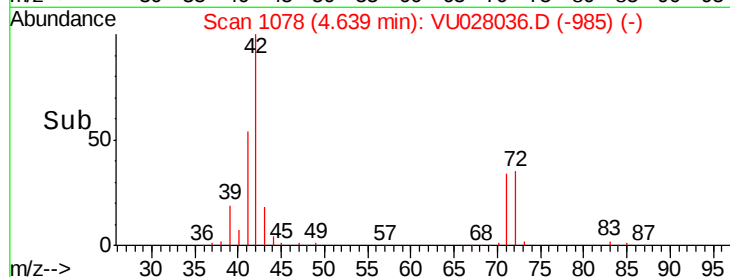
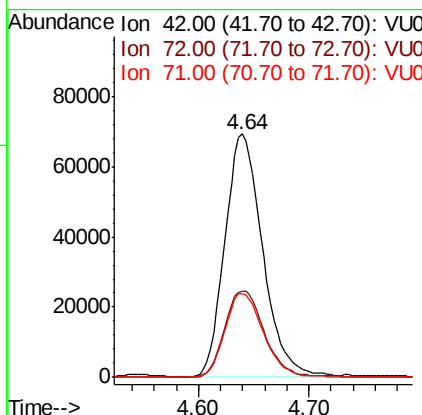
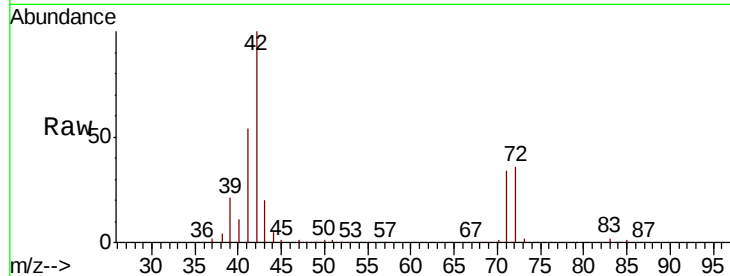
#29
Tetrahydrofuran
Concen: 95.624 ug/l
RT: 4.64 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.7	29.4	44.0
71	35.6	27.9	41.9

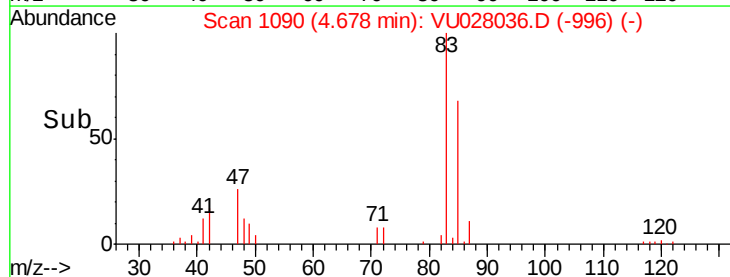
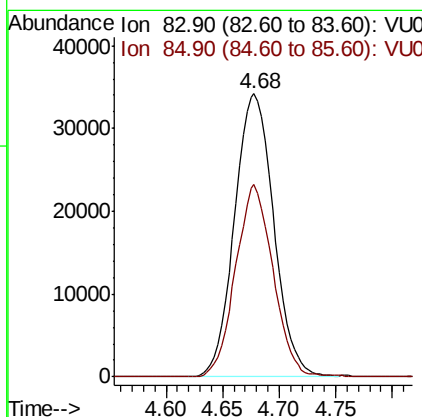
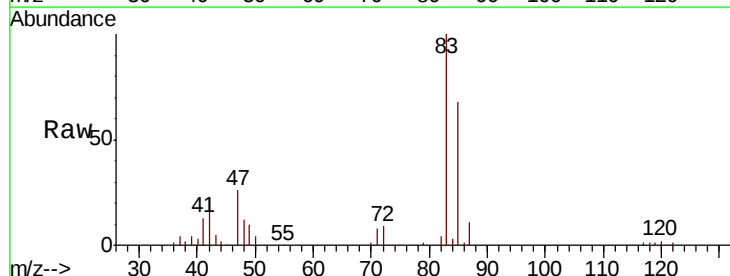
Manual Integrations
APPROVED

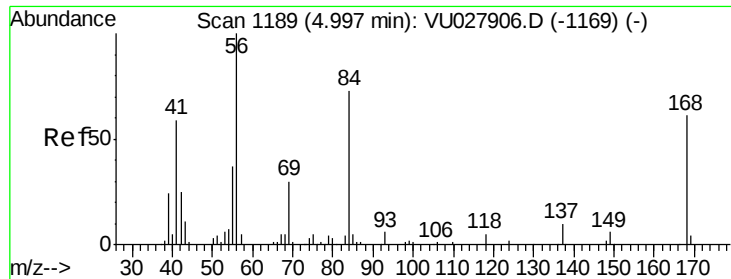
MMDadoda
11/12/2018 12:01:47 PM



#30
Chloroform
Concen: 19.481 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.9	50.6	76.0





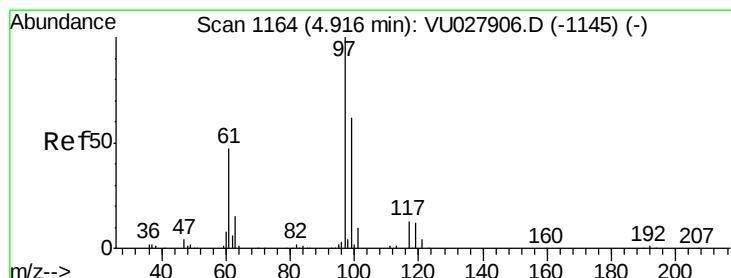
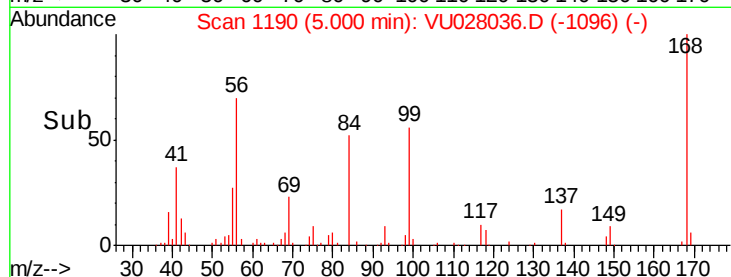
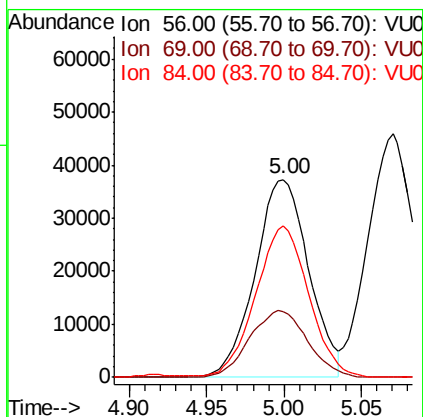
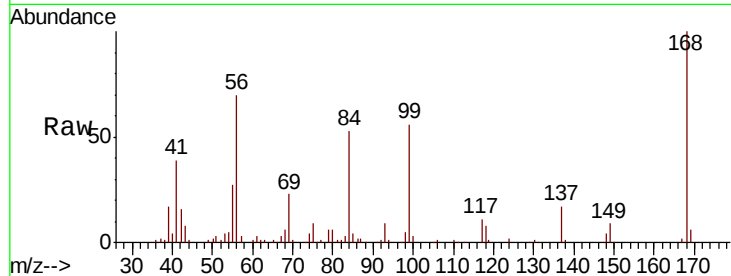
#31
Cyclohexane
Concen: 18.781 ug/l
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.5	23.7	35.5
84	75.9	58.2	87.4

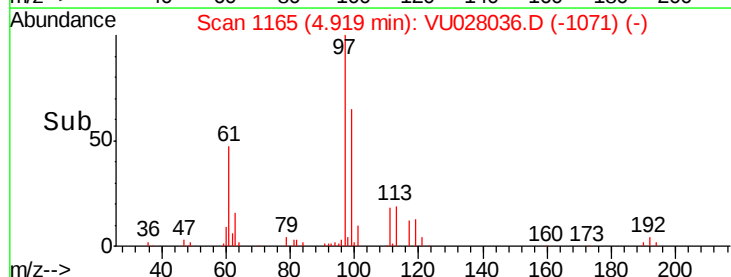
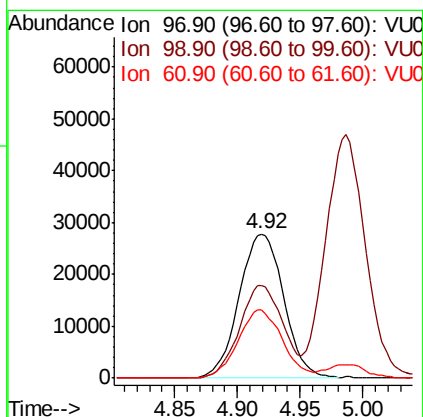
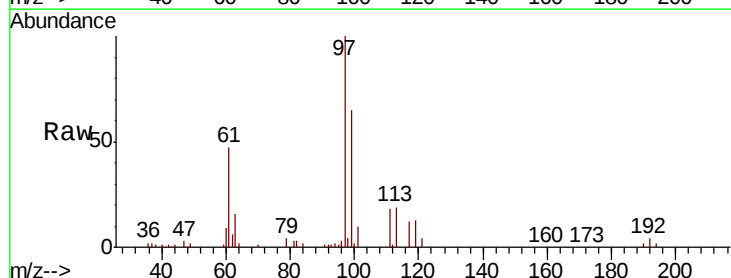
Manual Integrations
APPROVED

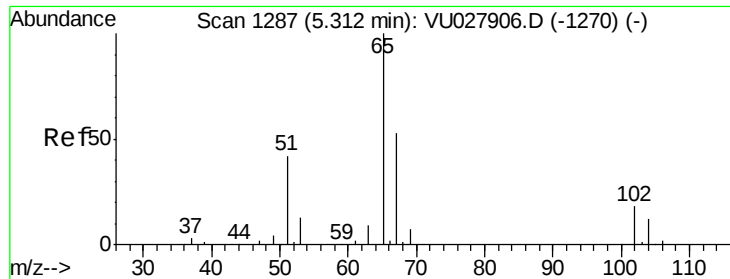
MMDadoda
11/12/2018 12:01:47 PM



#32
1,1,1-Trichloroethane
Concen: 20.437 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.7	50.5	75.7
61	46.9	38.3	57.5





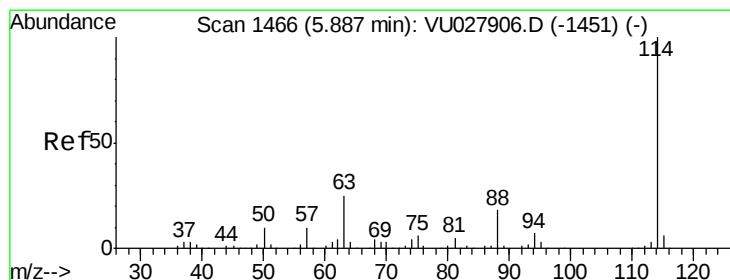
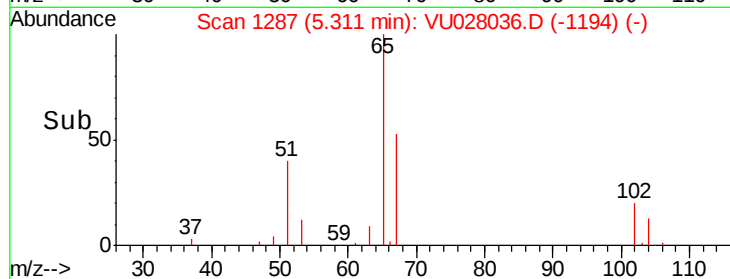
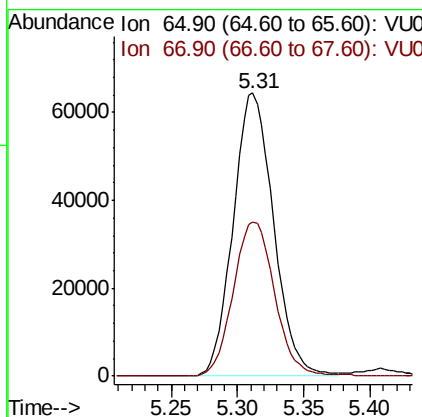
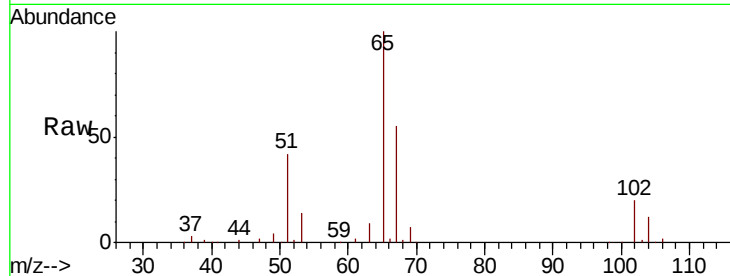
#33
 1,2-Dichloroethane-d4
 Concen: 52.372 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	136619		
67	55.6	0.0	109.0	

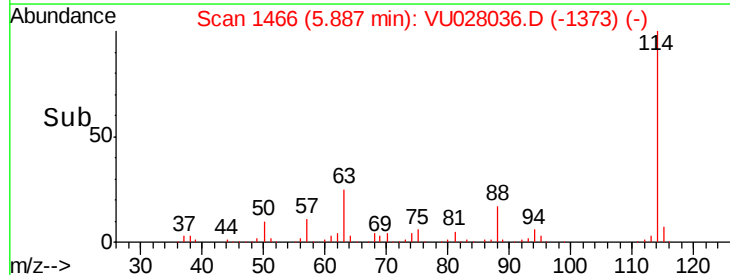
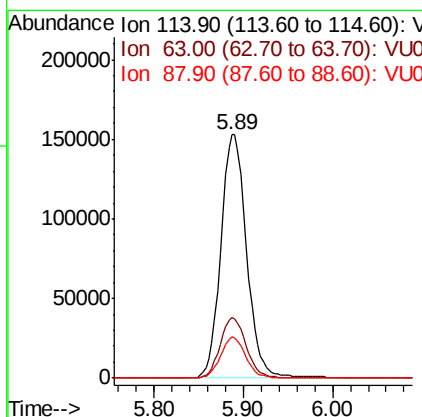
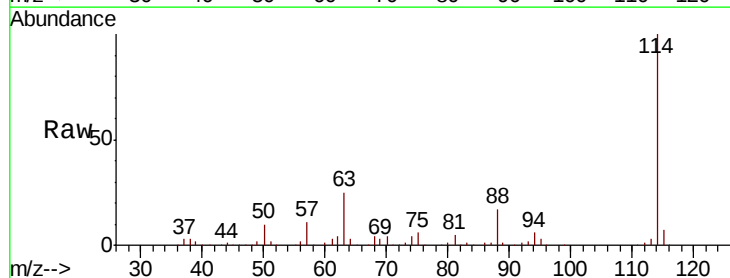
Manual Integrations
 APPROVED

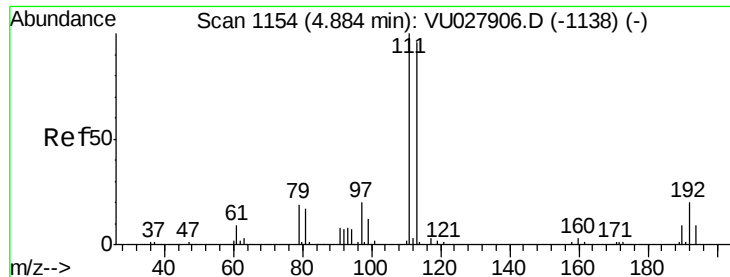
MMDadoda
 11/12/2018 12:01:47 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	305749		
63	24.7	0.0	50.8	
88	16.8	0.0	35.8	





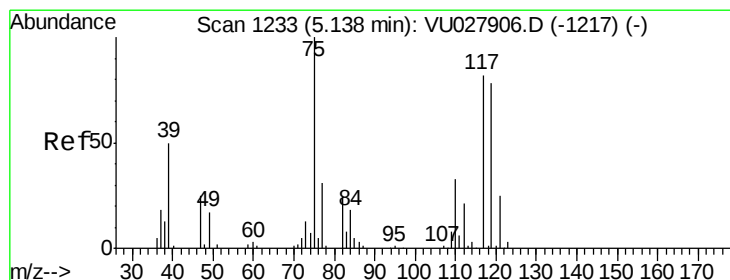
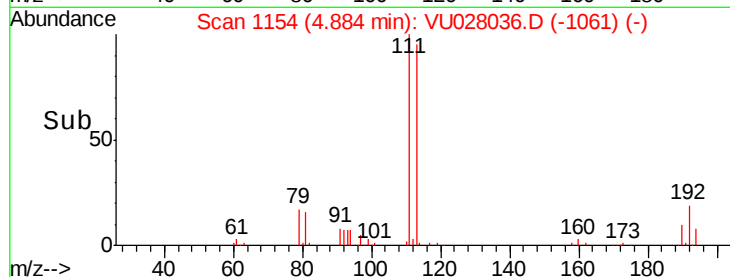
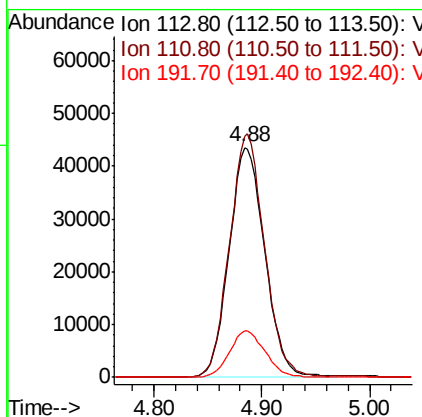
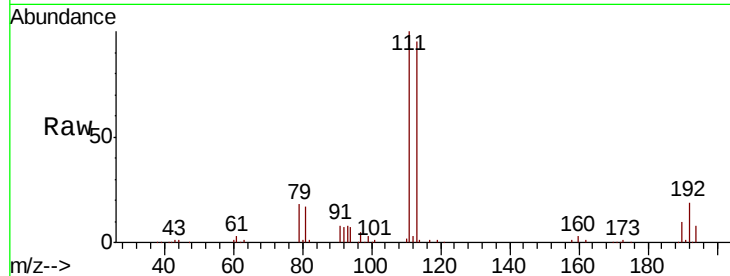
#35
 Dibromofluoromethane
 Concen: 52.163 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	100559		
111	103.6	83.0	124.6	
192	19.9	15.6	23.4	

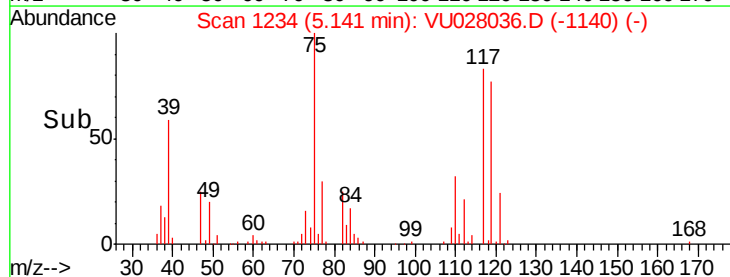
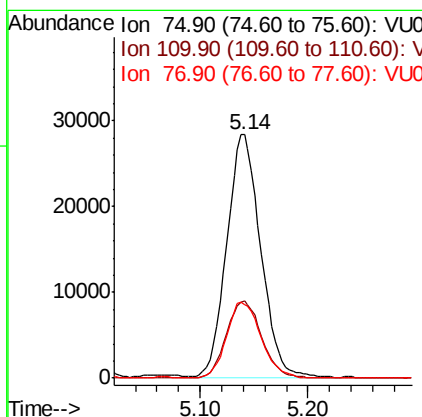
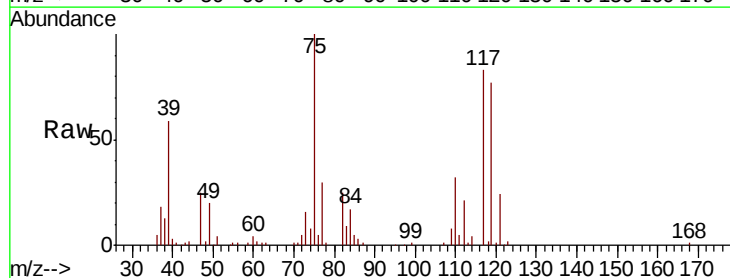
Manual Integrations
 APPROVED

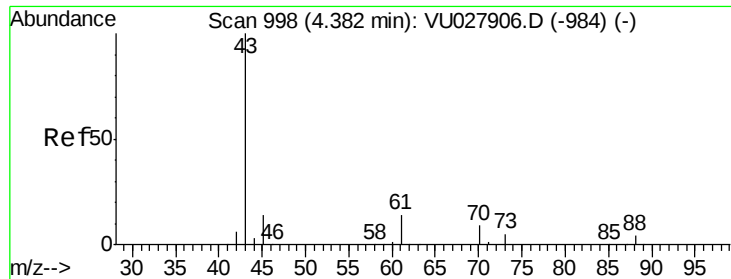
MMDadoda
 11/12/2018 12:01:47 PM



#36
 1,1-Dichloropropene
 Concen: 19.307 ug/l
 RT: 5.14 min Scan# 1234
 Delta R.T. 0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	61825		
110	32.9	16.5	49.5	
77	31.7	24.9	37.3	





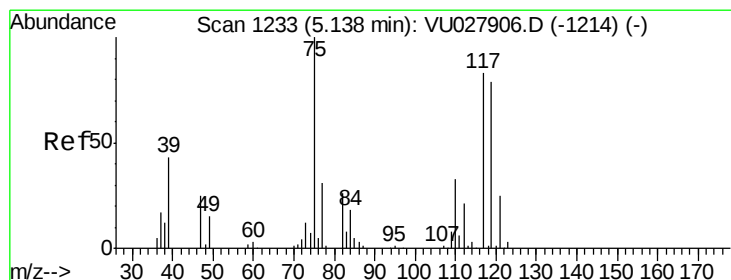
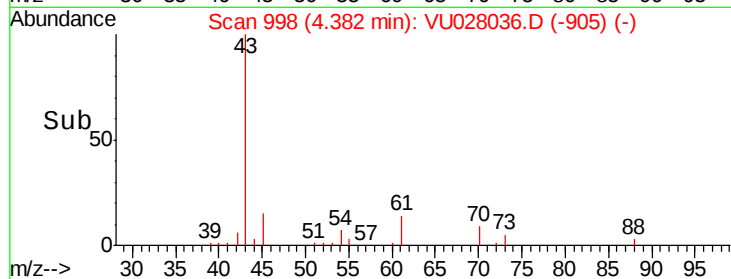
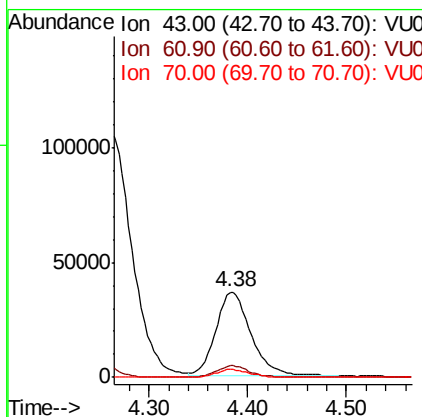
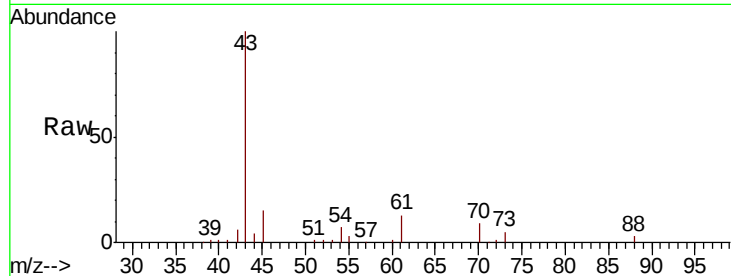
#37
Ethyl Acetate
Concen: 19.589 ug/l
RT: 4.38 min Scan# 998
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.3	10.3	15.5
70	8.5	7.0	10.6

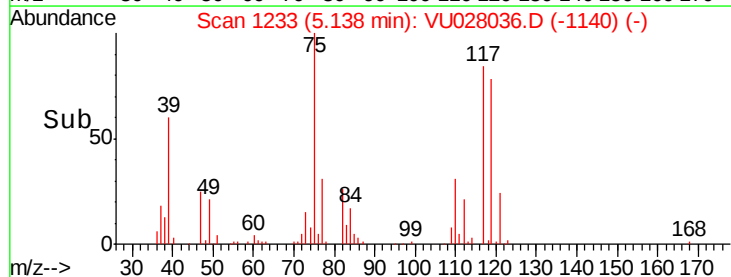
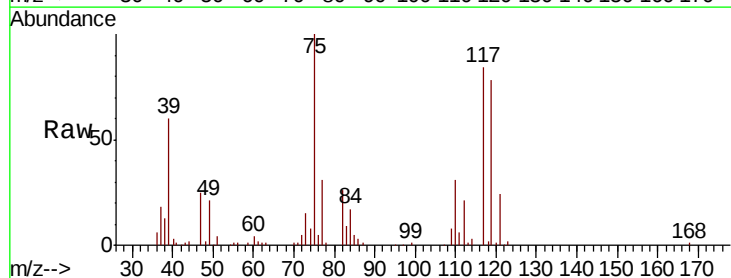
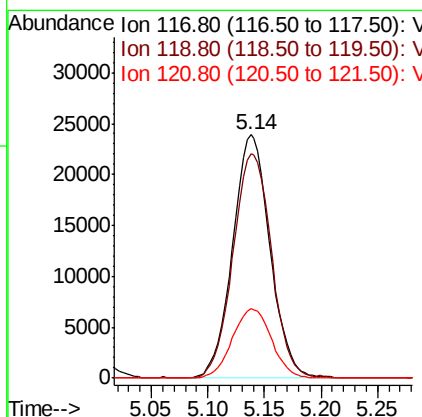
Manual Integrations
APPROVED

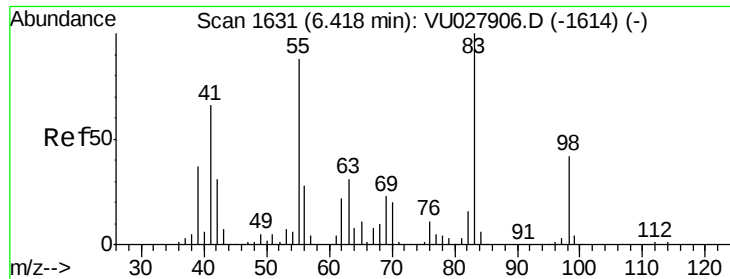
MMDadoda
11/12/2018 12:01:47 PM



#38
Carbon Tetrachloride
Concen: 19.356 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.1	76.0	114.0
121	28.5	24.5	36.7





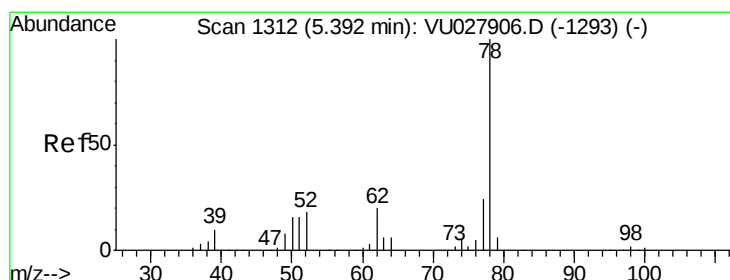
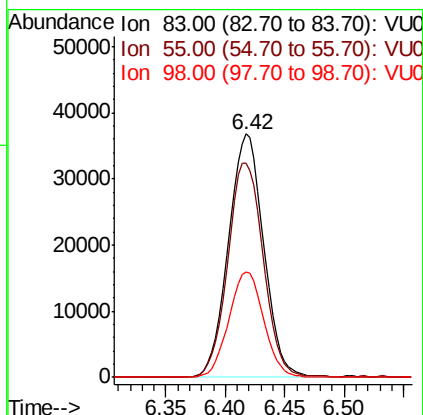
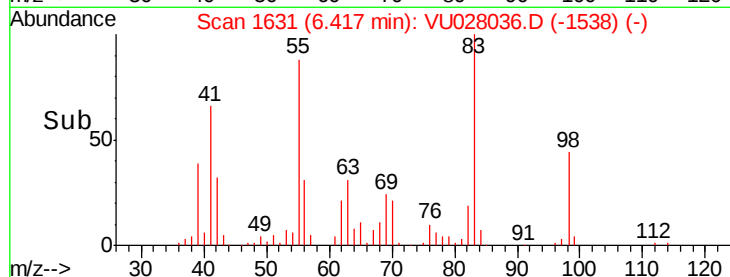
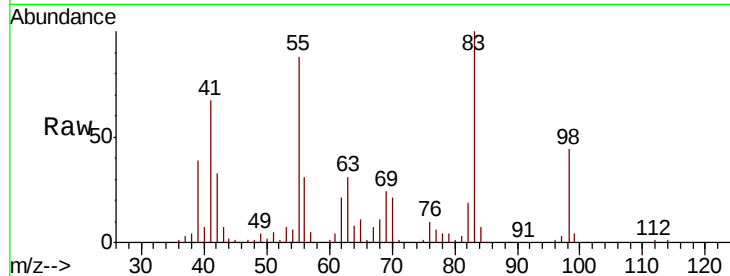
#39
Methvlcvclohexane
Concen: 19.545 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.8	70.3	105.5
98	43.5	34.0	51.0

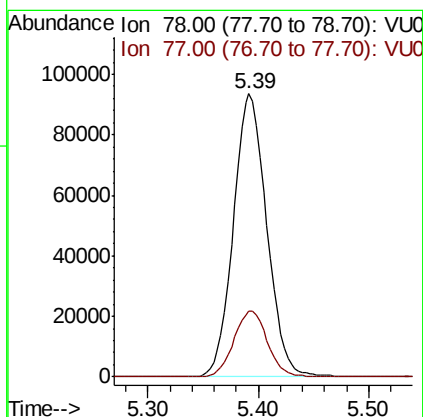
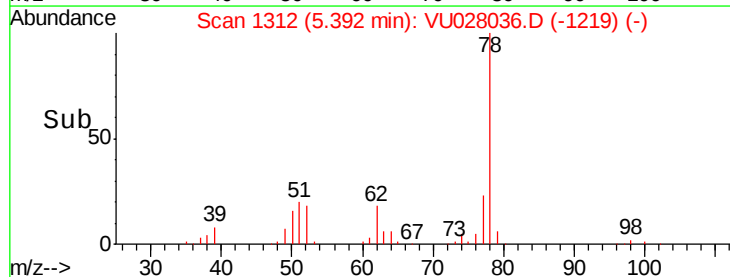
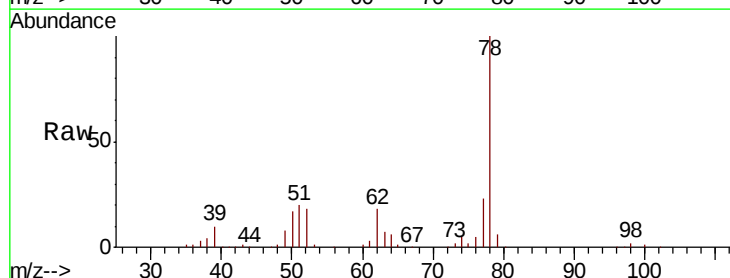
Manual Integrations
APPROVED

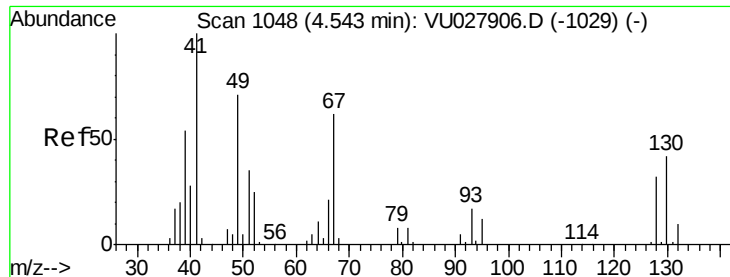
MMDadoda
11/12/2018 12:01:47 PM



#40
Benzene
Concen: 19.983 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.3	28.9





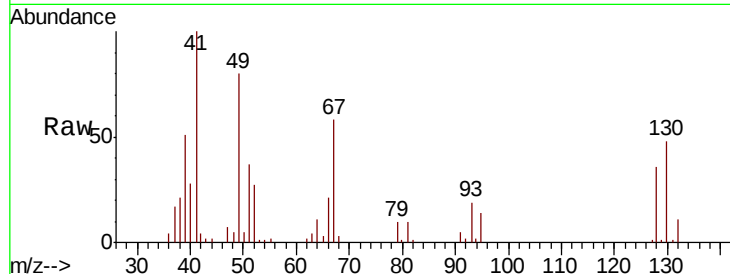
#41
Methacrylonitrile
Concen: 20.369 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	50.3	42.2	63.4
67	62.9	49.5	74.3
52	27.3	20.5	30.7

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



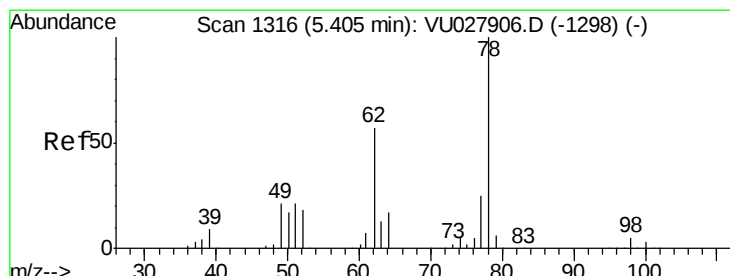
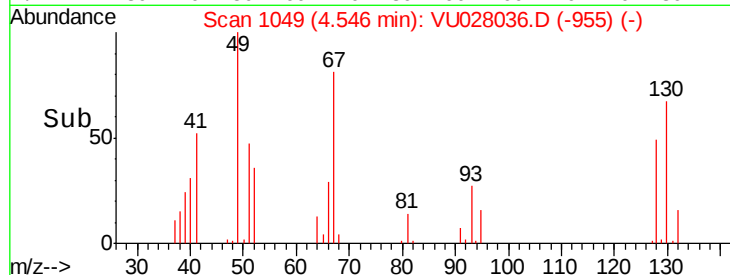
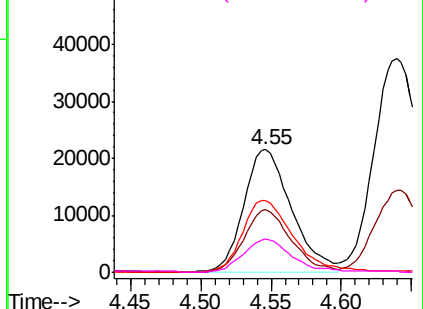
Abundance

Ion 41.00 (40.70 to 41.70): VU027906.D (-1029) (-)

Ion 39.00 (38.70 to 39.70): VU027906.D (-1029) (-)

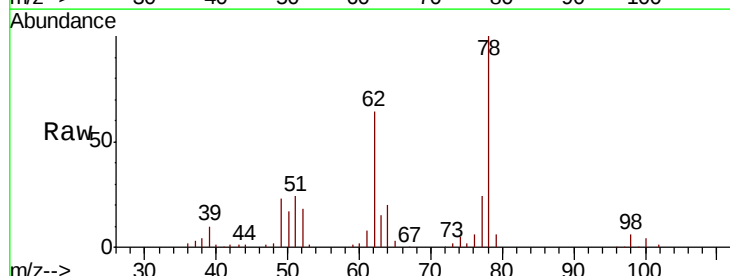
Ion 67.00 (66.70 to 67.70): VU027906.D (-1029) (-)

Ion 52.00 (51.70 to 52.70): VU027906.D (-1029) (-)



#42
1,2-Dichloroethane
Concen: 20.046 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

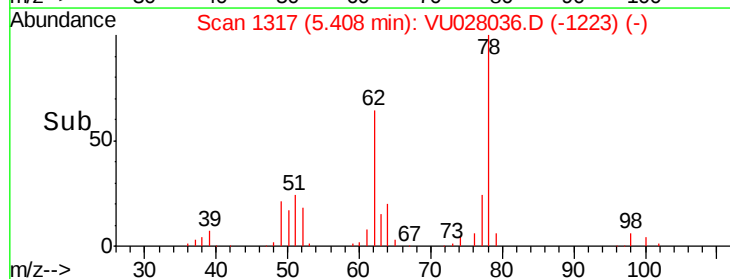
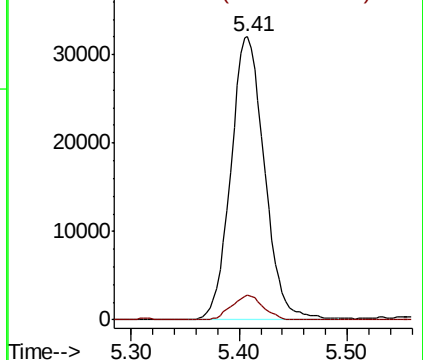
Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.2

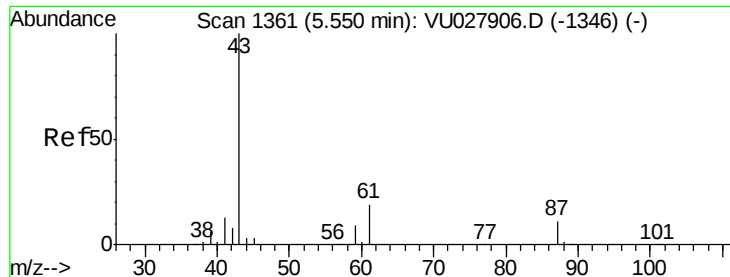


Abundance

Ion 61.90 (61.60 to 62.60): VU027906.D (-1298) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-1298) (-)





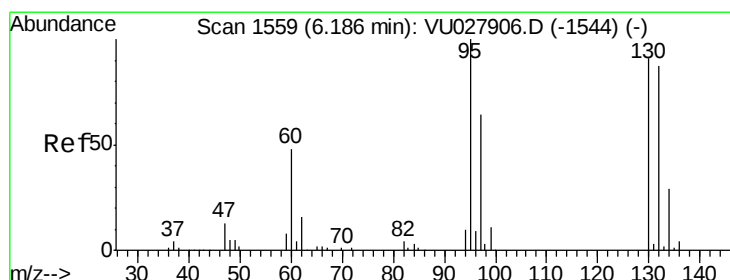
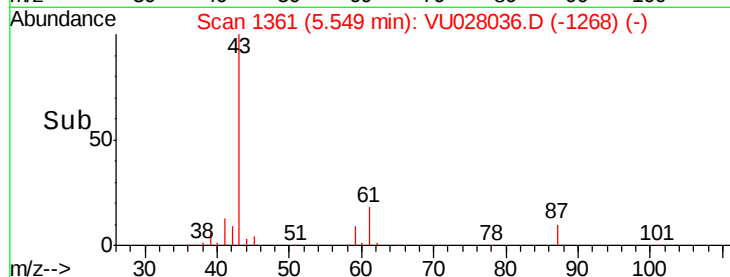
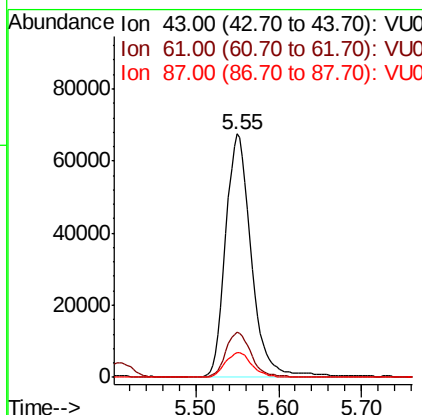
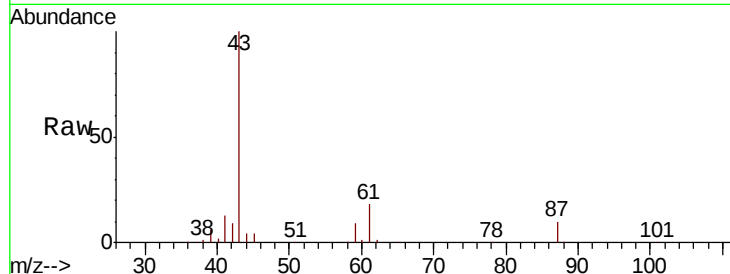
#43
Isopropyl Acetate
Concen: 19.656 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.4	15.0	22.4
87	10.4	8.6	12.8

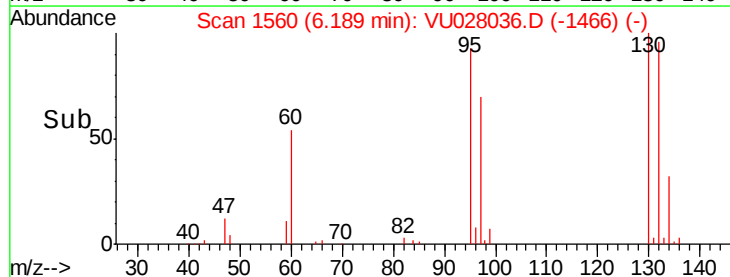
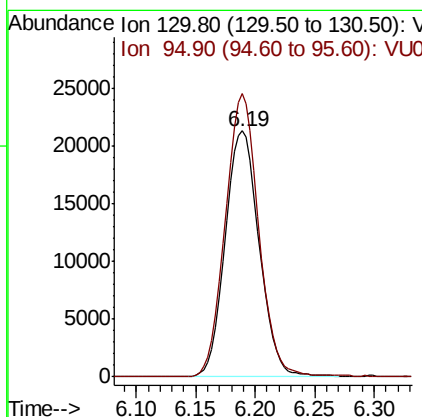
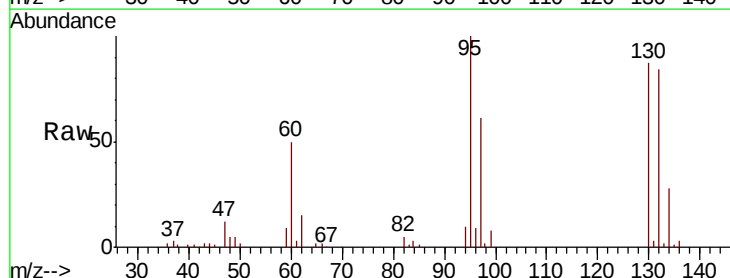
Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#44
Trichloroethene
Concen: 20.130 ug/l
RT: 6.19 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
130	100		
95	115.2	0.0	219.2





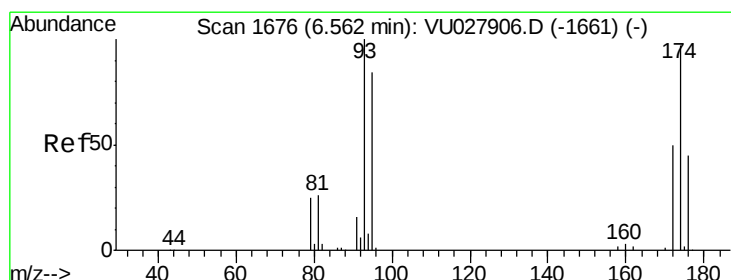
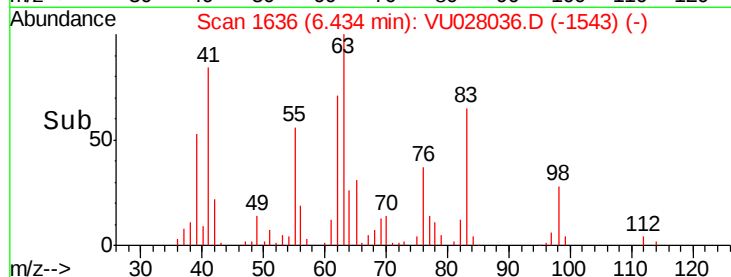
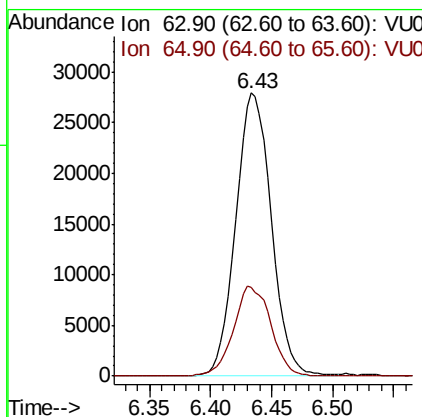
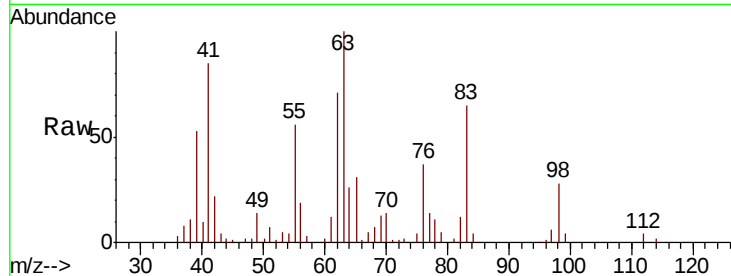
#45
 1,2-Dichloropropane
 Concen: 19.950 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Tot Ion: 63 Resp: 56329
 Ion Ratio Lower Upper
 63 100
 65 31.3 24.4 36.6

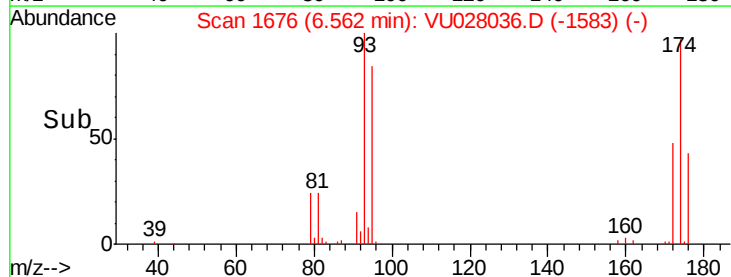
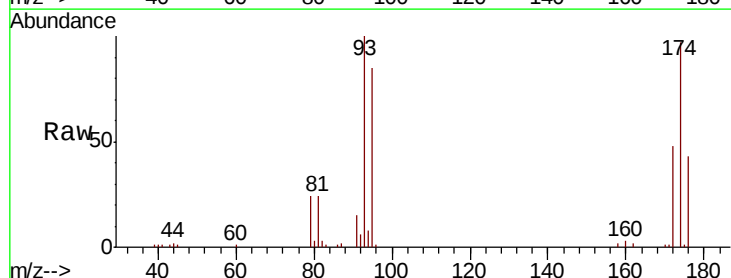
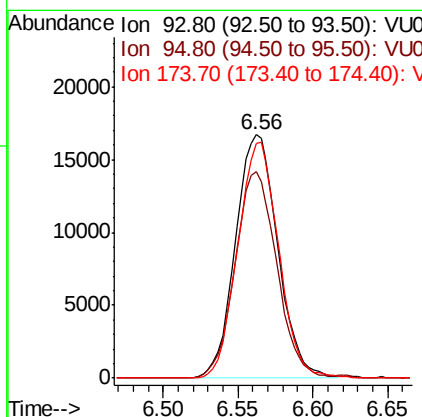
Manual Integrations
 APPROVED

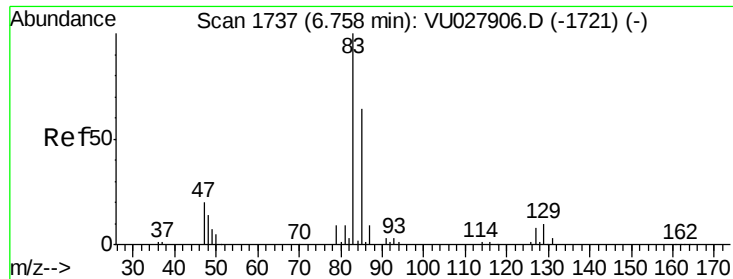
MMDadoda
 11/12/2018 12:01:47 PM



#46
 Dibromomethane
 Concen: 20.256 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Tgt Ion: 93 Resp: 32875
 Ion Ratio Lower Upper
 93 100
 95 83.4 68.5 102.7
 174 93.5 76.1 114.1





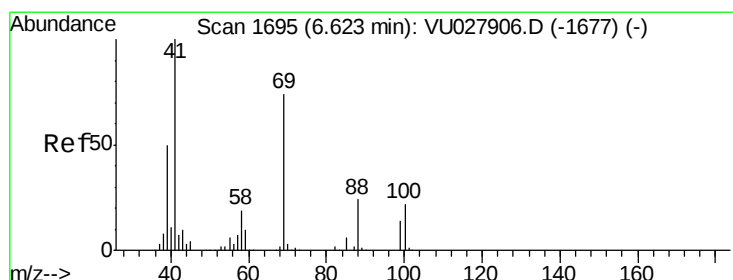
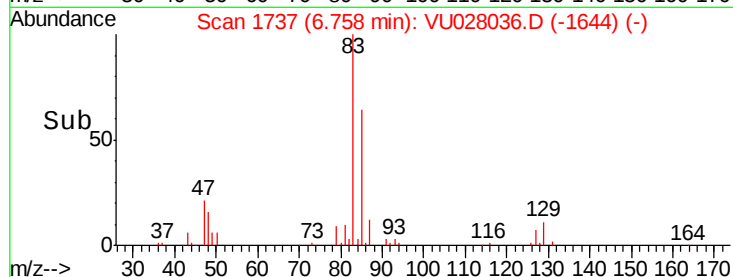
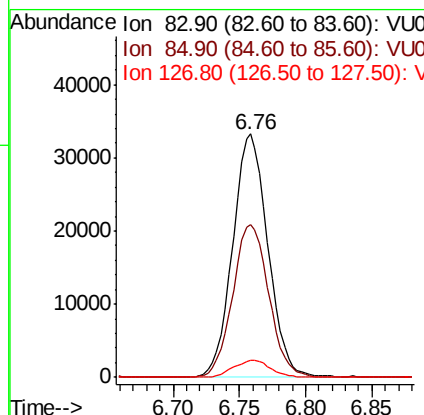
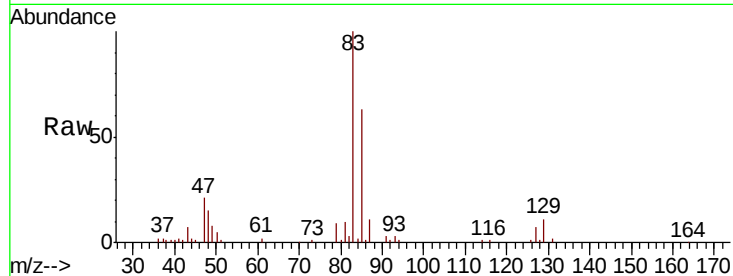
#47
Bromodichloromethane
Concen: 19.620 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	83	Resp	61363
Ion Ratio	100	Lower	Upper
83	100		
85	62.8	51.0	76.6
127	6.9	6.2	9.4

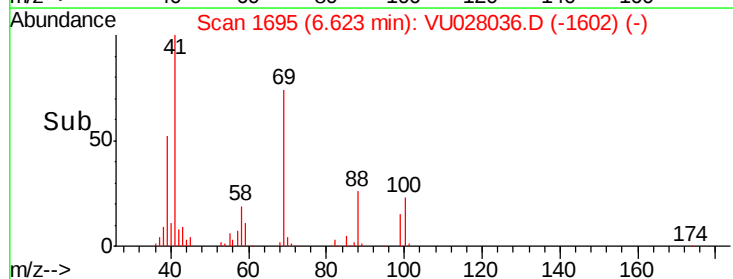
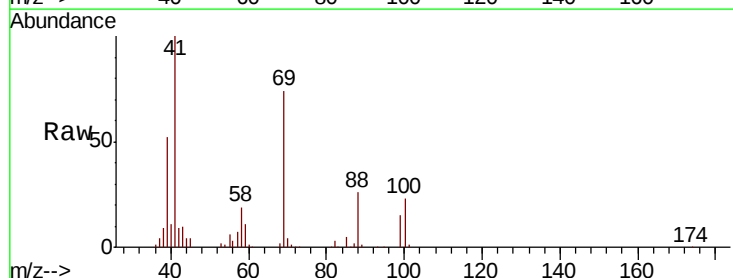
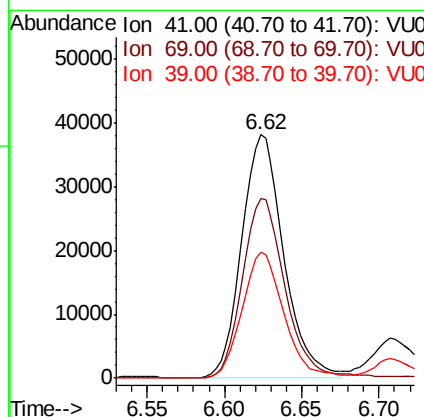
Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#48
Methyl methacrylate
Concen: 20.066 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	41	Resp	72284
Ion Ratio	100	Lower	Upper
41	100		
69	75.1	59.8	89.8
39	51.1	40.0	60.0





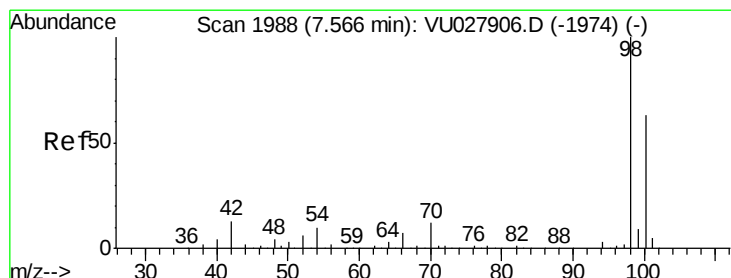
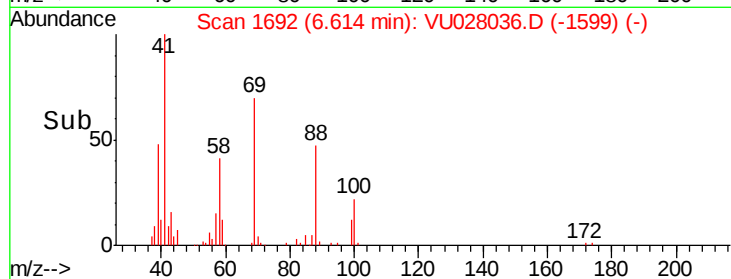
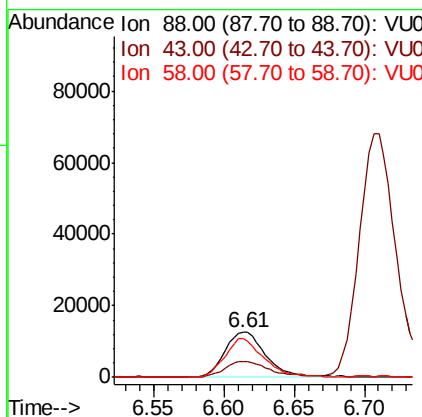
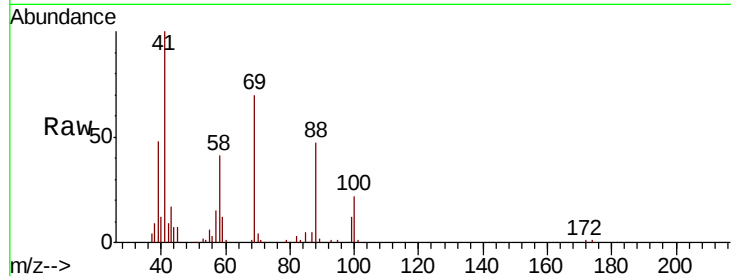
#49
1,4-Dioxane
Concen: 441.476 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.9	30.5	45.7
58	81.1	67.1	100.7

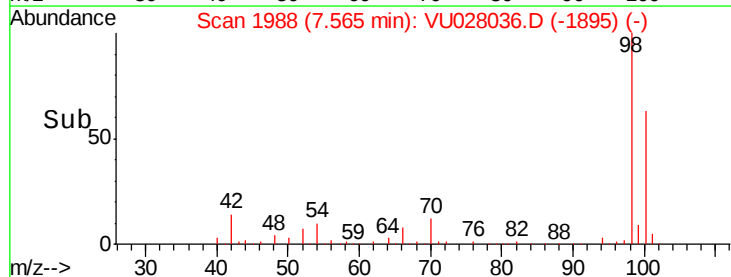
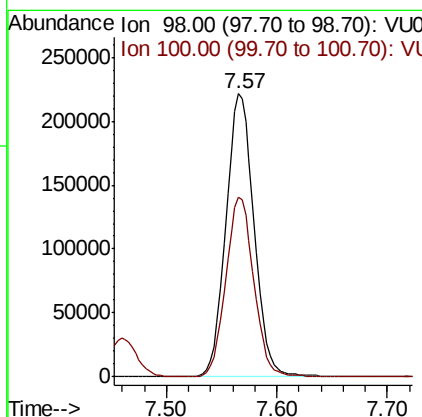
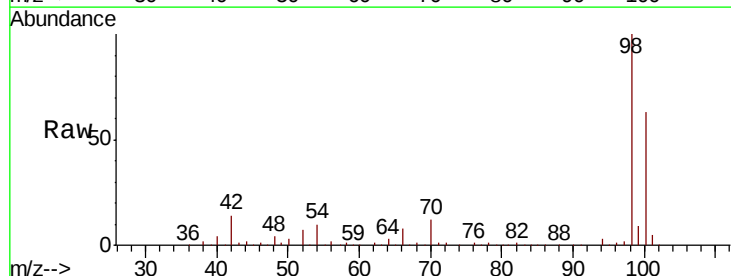
Manual Integrations
APPROVED

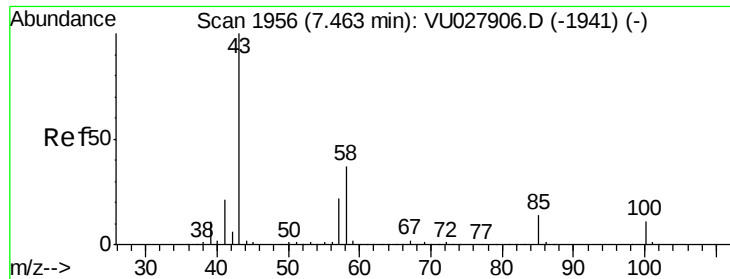
MMDadoda
11/12/2018 12:01:47 PM



#50
Toluene-d8
Concen: 52.509 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.7	50.1	75.1





#51

4-Methyl-2-Pentanone

Concen: 97.348 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 43 Resp: 477896

Ion Ratio Lower Upper

43 100

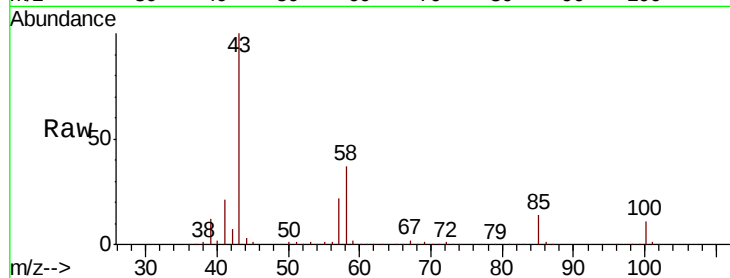
58 37.0 29.5 44.3

Manual Integrations

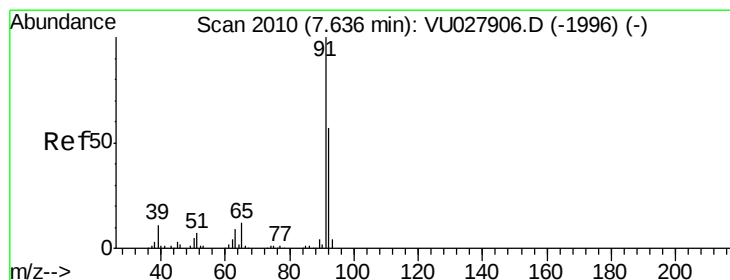
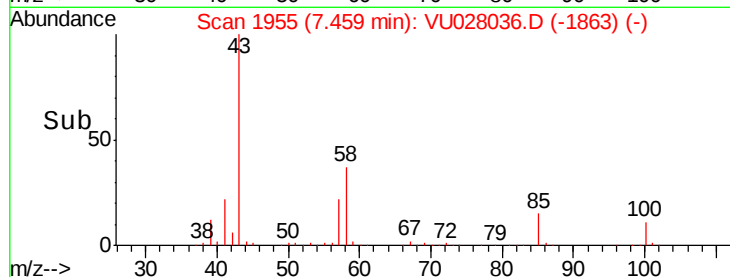
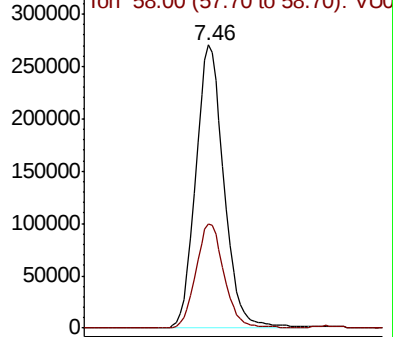
APPROVED

MMDadoda

11/12/2018 12:01:47 PM



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



#52

Toluene

Concen: 19.949 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028036.D

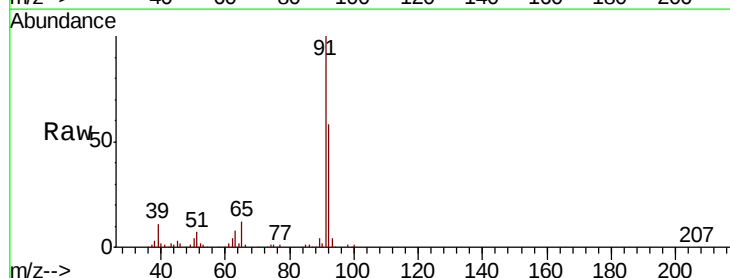
Acq: 09 Nov 2018 11:55

Tgt Ion: 92 Resp: 114820

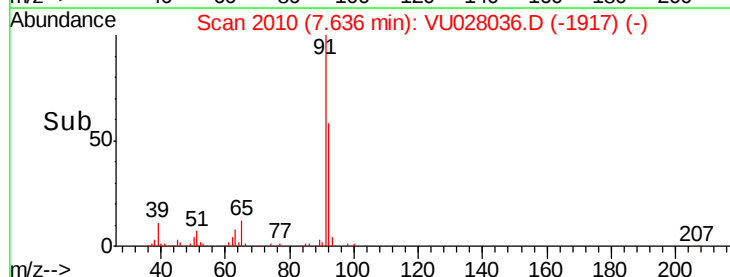
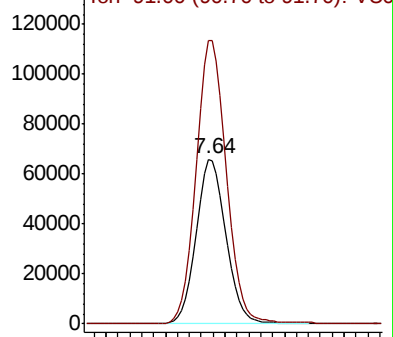
Ion Ratio Lower Upper

92 100

91 174.9 141.2 211.8



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





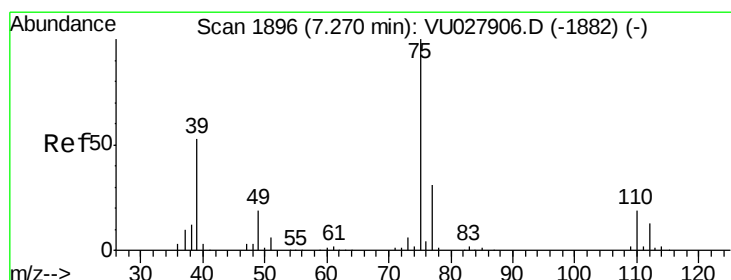
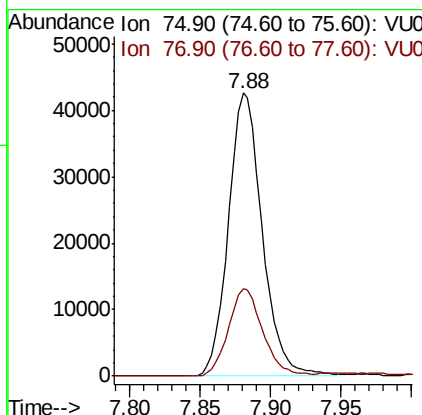
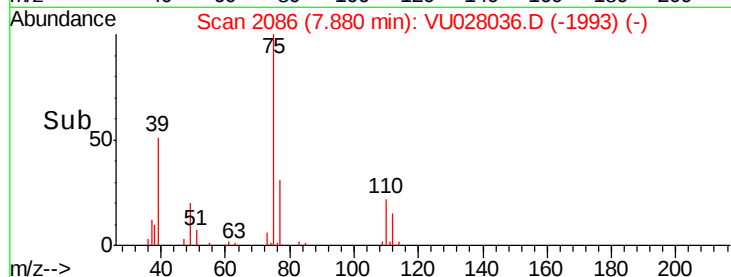
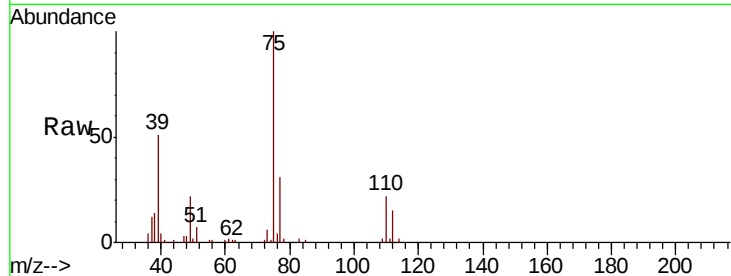
#53
t-1,3-Dichloropropene
Concen: 19.148 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion: 75 Resp: 71531
Ion Ratio Lower Upper
75 100
77 31.0 25.1 37.7

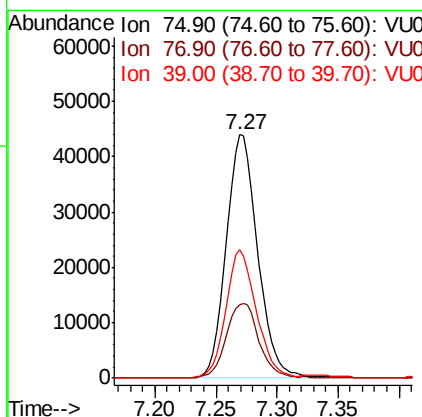
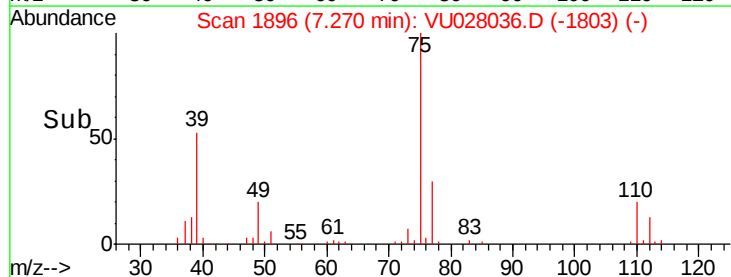
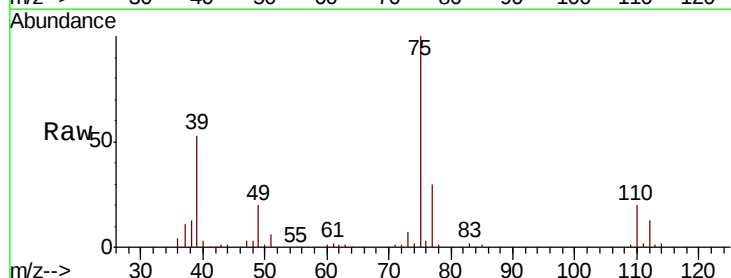
Manual Integrations
APPROVED

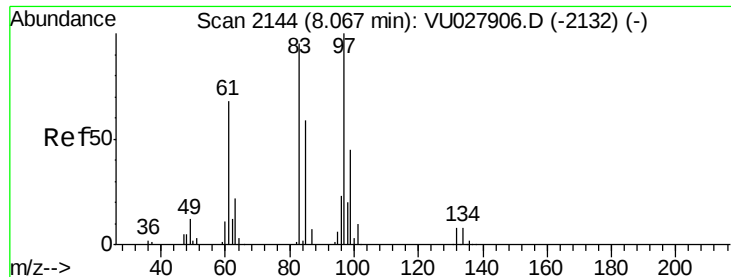
MMDadoda
11/12/2018 12:01:47 PM



#54
cis-1,3-Dichloropropene
Concen: 20.603 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion: 75 Resp: 79437
Ion Ratio Lower Upper
75 100
77 30.3 24.6 37.0
39 52.9 42.6 64.0





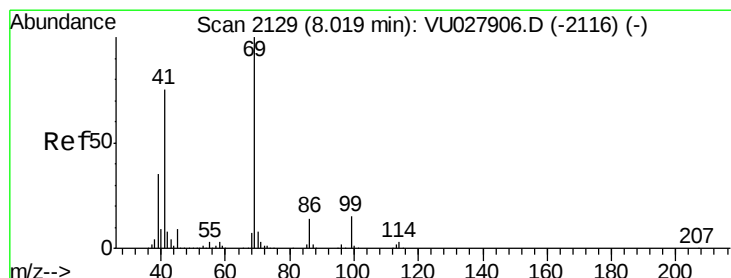
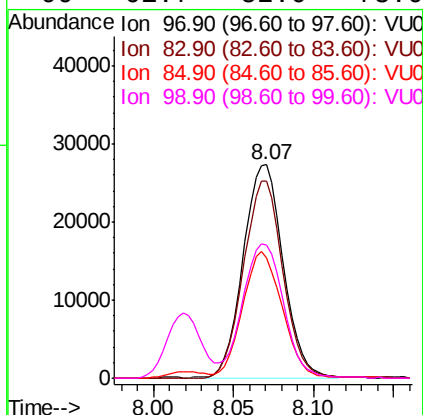
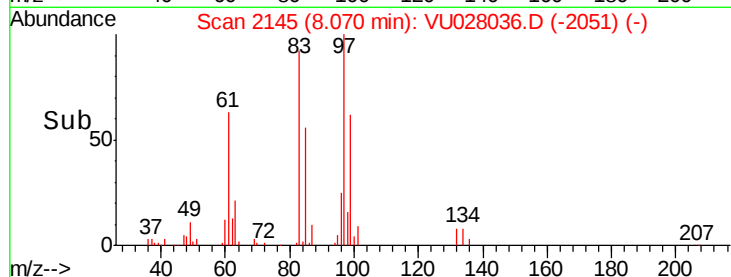
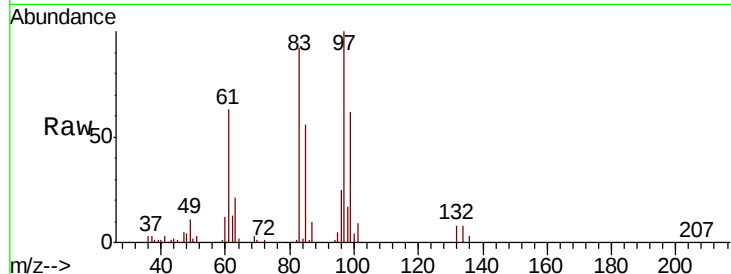
#55
 1,1,2-Trichloroethane
 Concen: 20.057 ug/l
 RT: 8.07 min Scan# 2145
 Delta R.T. 0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		46966		
83	92.1		76.1	114.1	
85	55.1		48.9	73.3	
99	61.7		52.0	78.0	

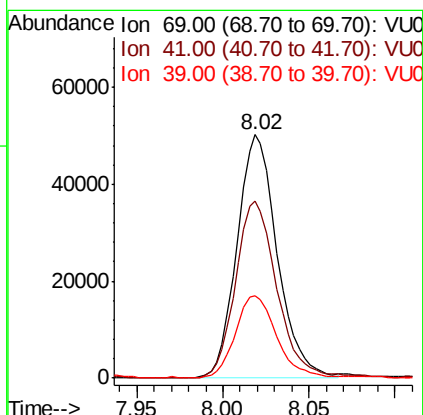
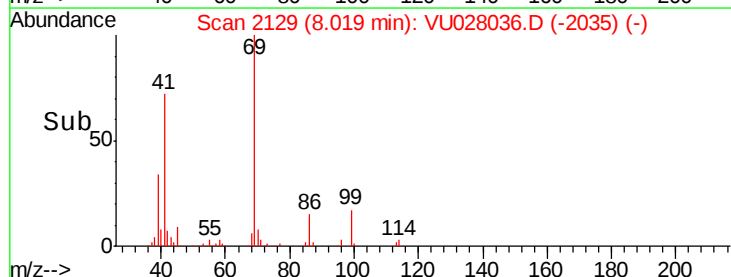
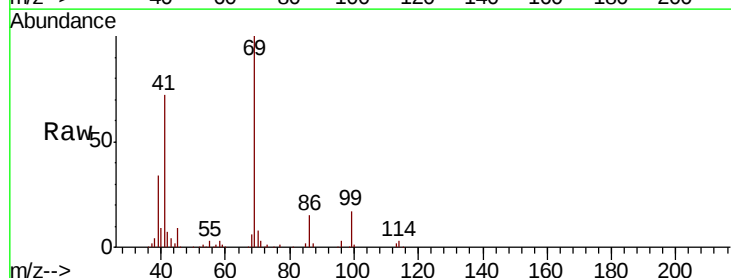
Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:01:47 PM



#56
 Ethyl methacrylate
 Concen: 19.755 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		81577		
41	75.3		59.8	89.6	
39	34.2		28.6	42.8	





#57

1,3-Dichloropropane

Concen: 19.820 ug/l

RT: 8.24 min Scan# 2199

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 76 Resp: 84542

Ion Ratio Lower Upper

76 100

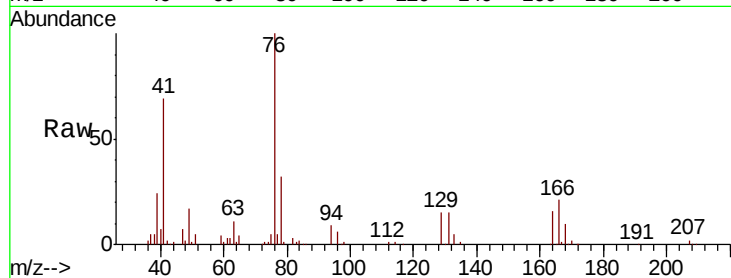
78 32.0 25.3 37.9

Manual Integrations

APPROVED

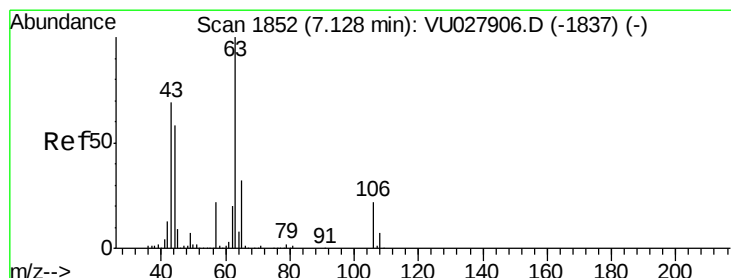
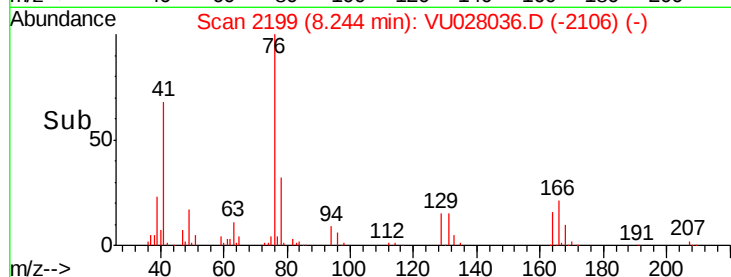
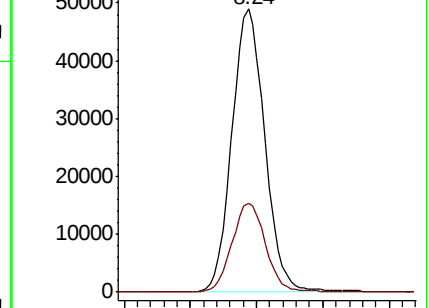
MMDadoda

11/12/2018 12:01:47 PM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 95.429 ug/l

RT: 7.13 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VU028036.D

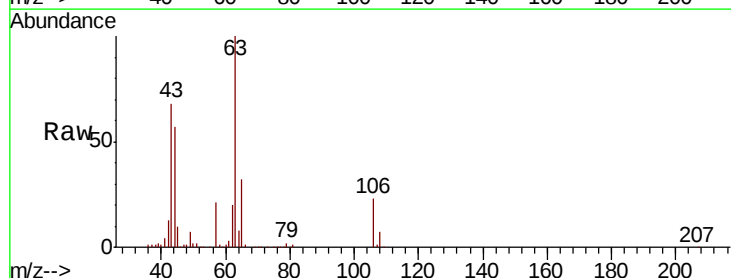
Acq: 09 Nov 2018 11:55

Tgt Ion: 63 Resp: 211058

Ion Ratio Lower Upper

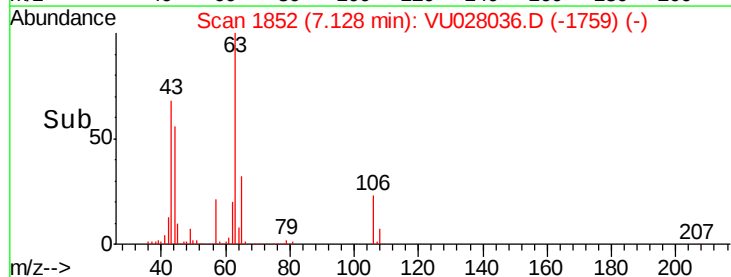
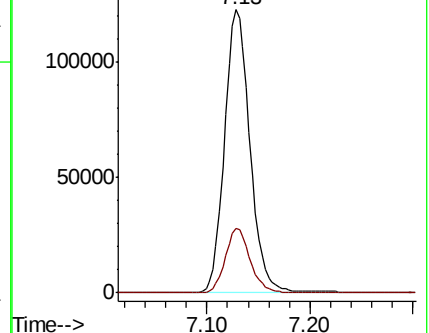
63 100

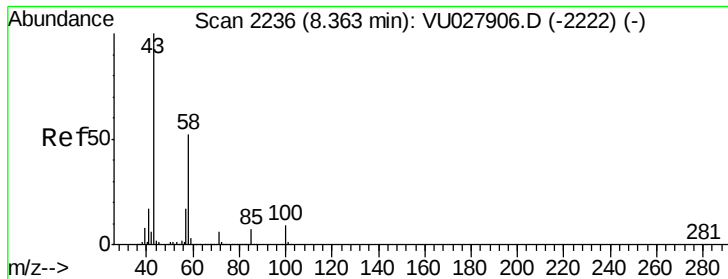
106 22.3 17.8 26.6



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





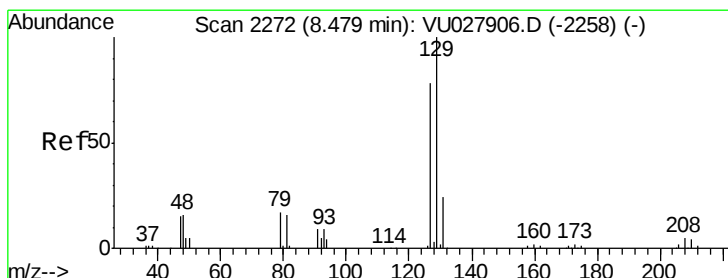
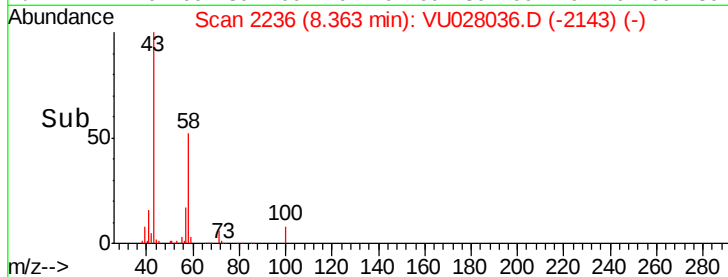
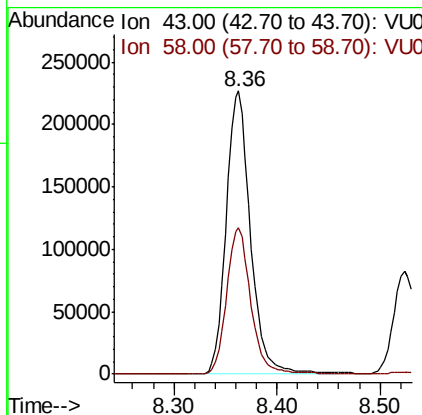
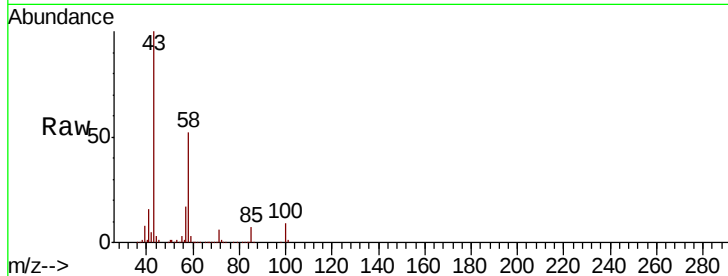
#59
2-Hexanone
Concen: 98.067 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.6	25.8	77.3

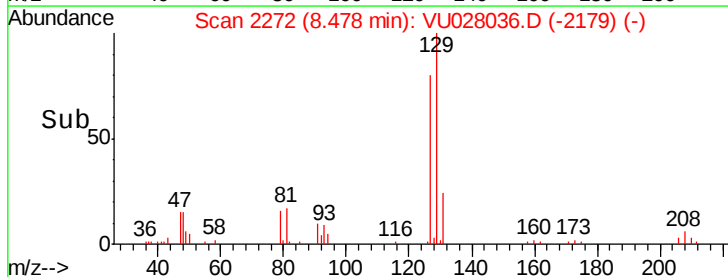
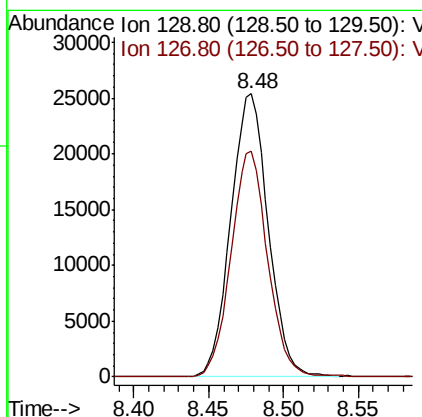
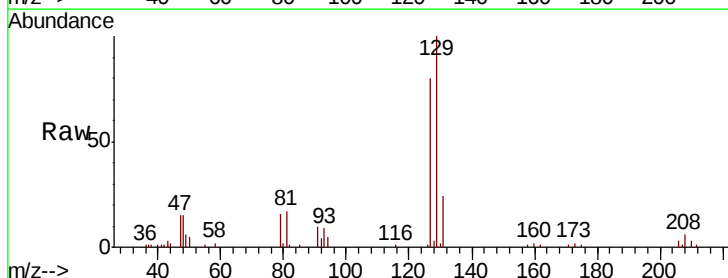
Manual Integrations
APPROVED

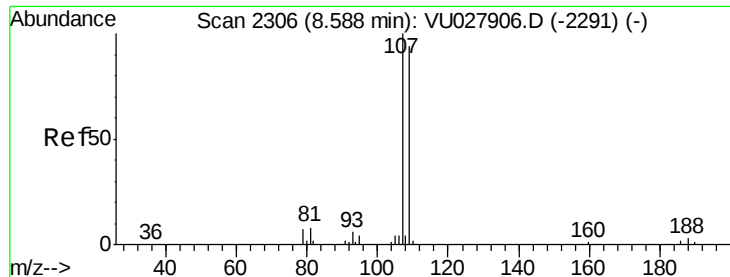
MMDadoda
11/12/2018 12:01:47 PM



#60
Dibromochloromethane
Concen: 19.928 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.2	117.6





#61

1,2-Dibromoethane

Concen: 19.763 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 107 Resp: 49174

Ion Ratio Lower Upper

107 100

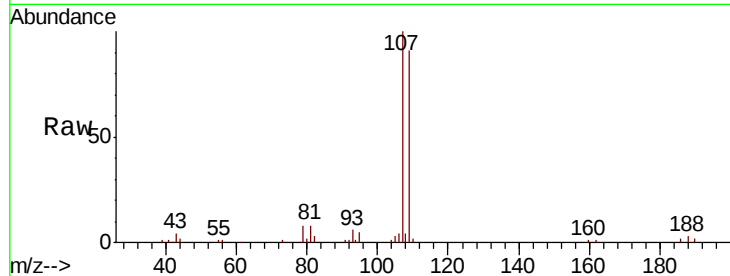
109 93.6 73.8 110.8

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:47 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.59

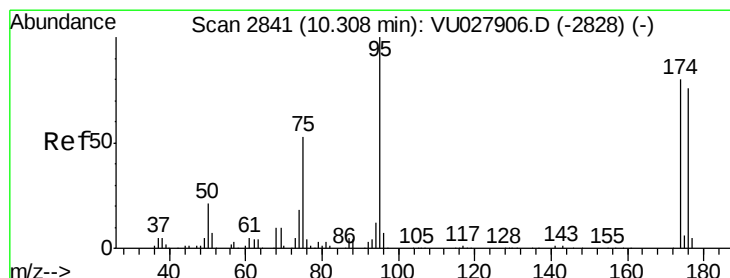
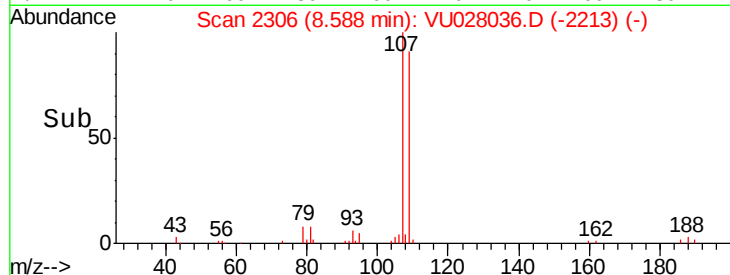
30000

20000

10000

0

Time--> 8.50 8.55 8.60 8.65 8.70



#62

4-Bromofluorobenzene

Concen: 52.052 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

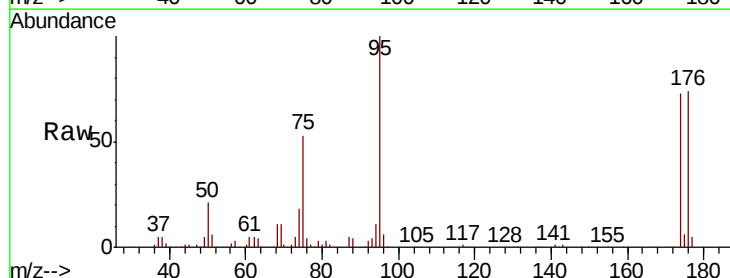
Tgt Ion: 95 Resp: 142974

Ion Ratio Lower Upper

95 100

174 73.9 0.0 156.4

176 72.9 0.0 150.8



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

120000

100000

80000

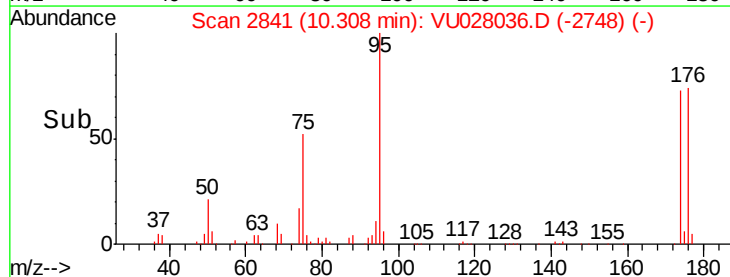
60000

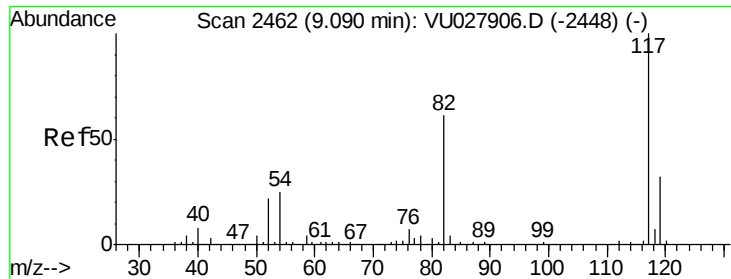
40000

20000

0

Time--> 10.25 10.30 10.35





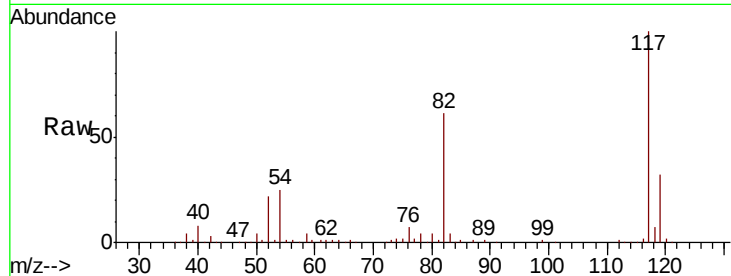
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.6	48.6	73.0
119	32.4	25.8	38.8

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM

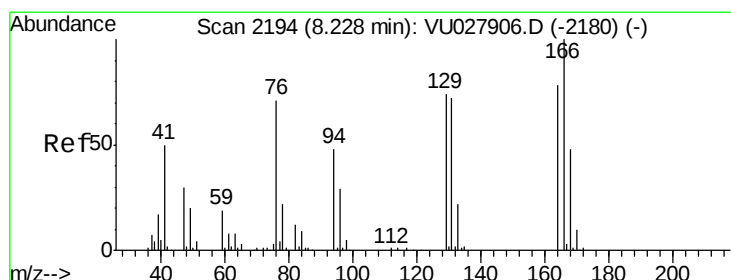
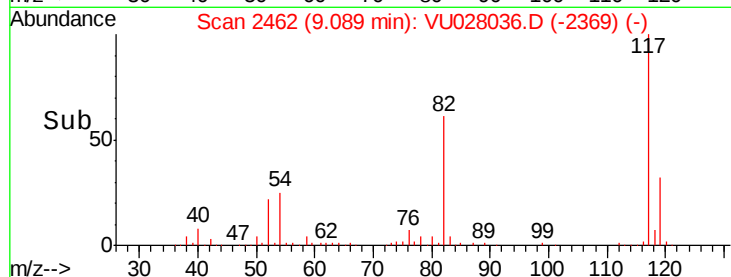
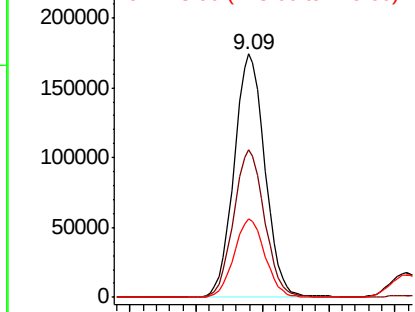


Abundance

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: 19.583 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.6	102.1	153.1
129	94.5	75.9	113.9
131	90.7	73.0	109.6

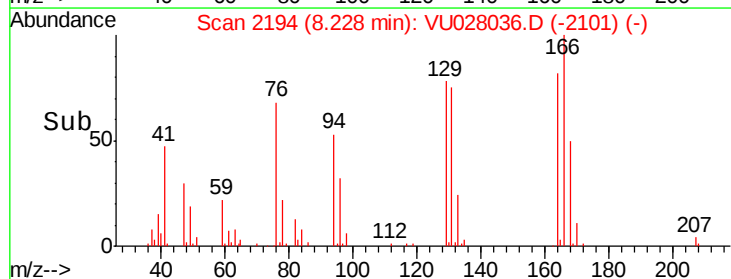
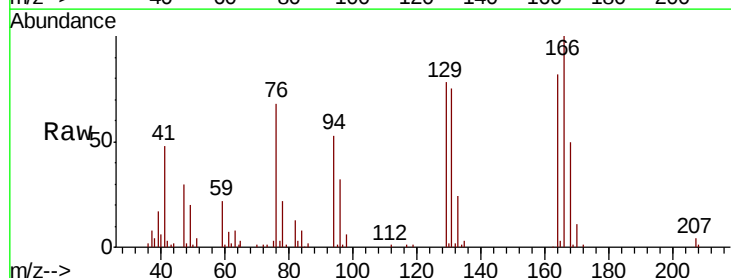
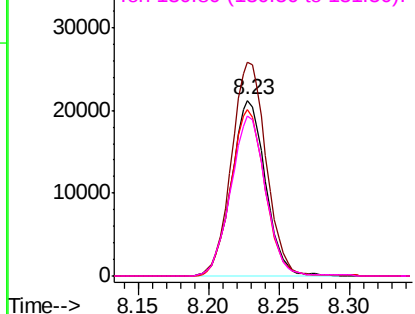
Abundance

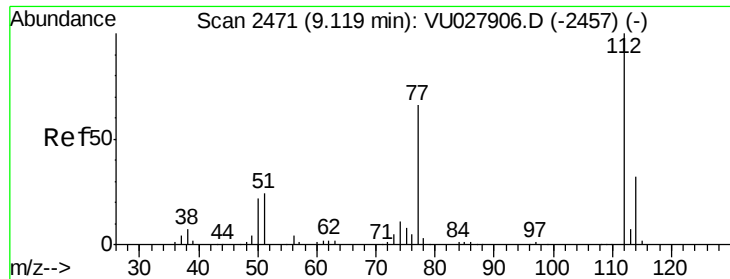
Ion 163.80 (163.50 to 164.50): V

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





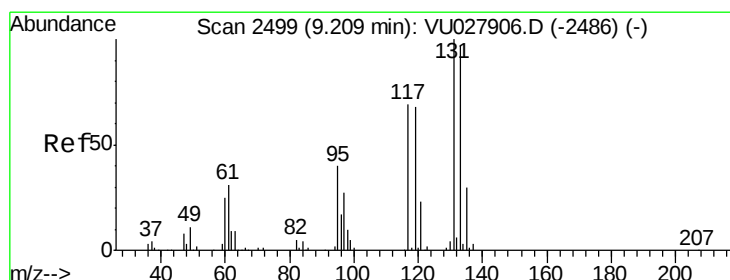
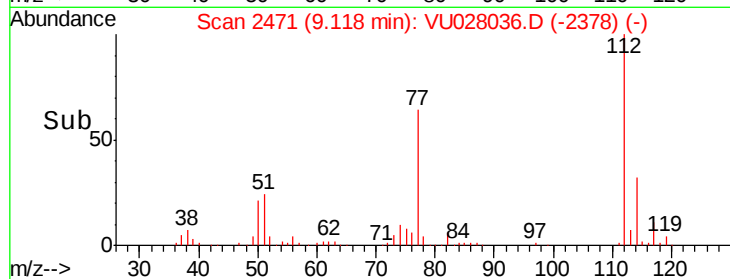
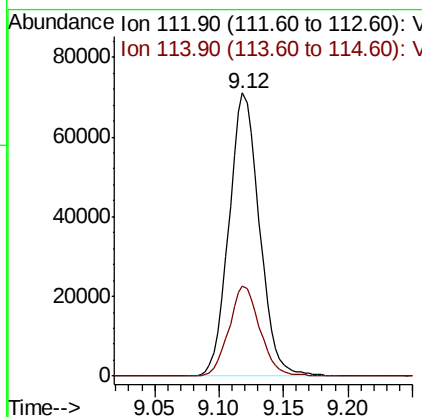
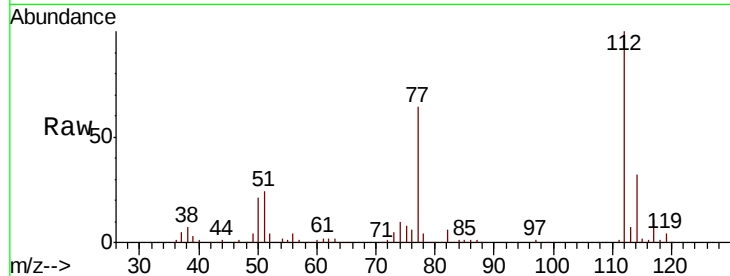
#65
Chlorobenzene
Concen: 19.641 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion:112 Resp: 116846
Ion Ratio Lower Upper
112 100
114 31.9 25.2 37.8

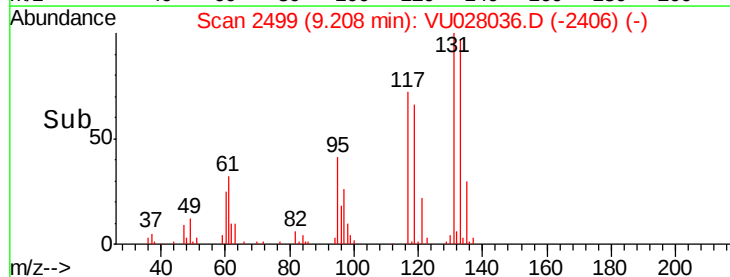
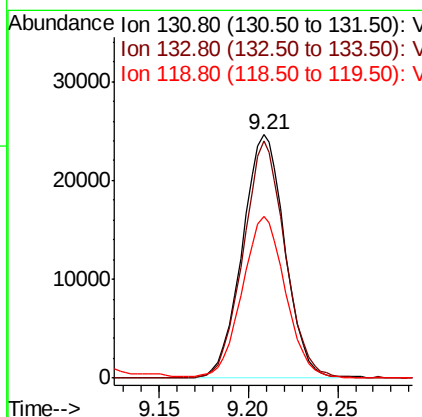
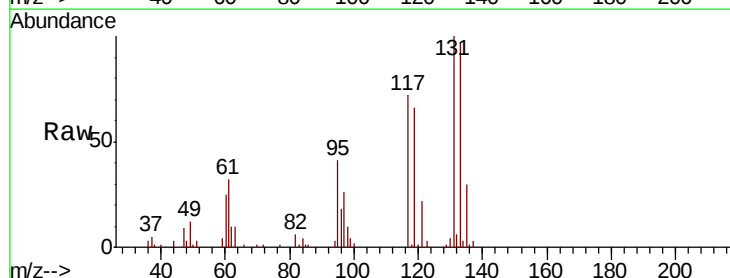
Manual Integrations
APPROVED

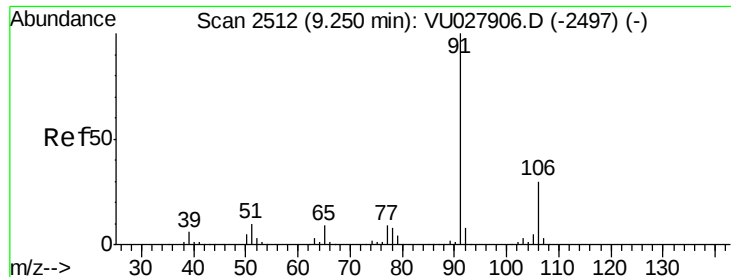
MMDadoda
11/12/2018 12:01:47 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.243 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion:131 Resp: 41133
Ion Ratio Lower Upper
131 100
133 95.7 48.1 144.4
119 67.6 34.0 101.8





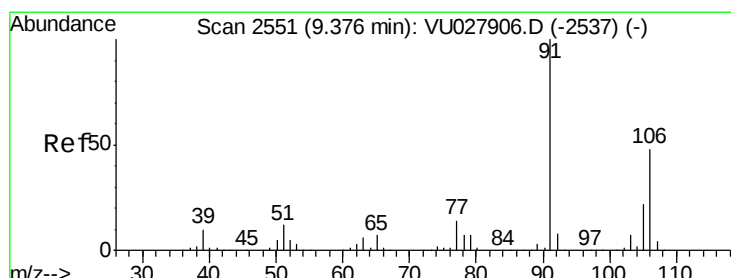
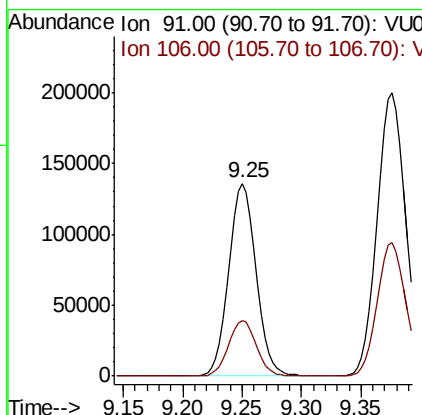
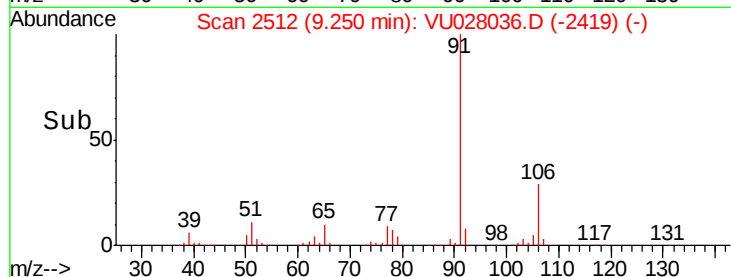
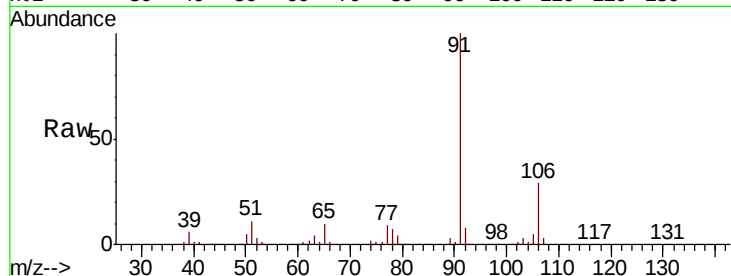
#67
Ethyl Benzene
Concen: 19.849 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion: 91 Resp: 217355
Ion Ratio Lower Upper
91 100
106 29.1 23.6 35.4

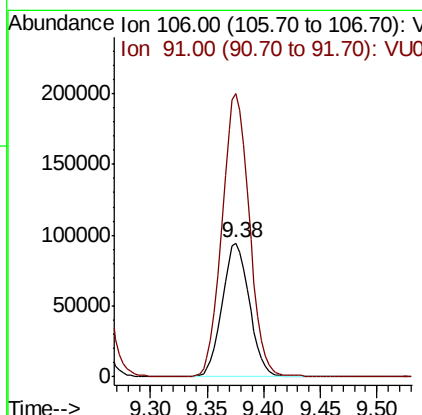
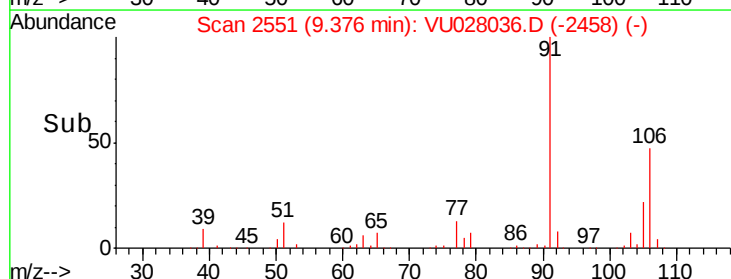
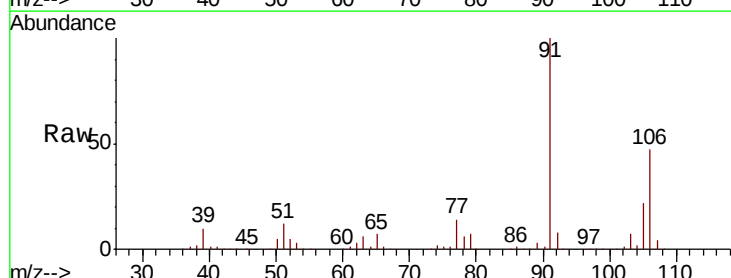
Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#68
m/p-Xylenes
Concen: 39.804 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion: 106 Resp: 158151
Ion Ratio Lower Upper
106 100
91 211.2 168.2 252.4





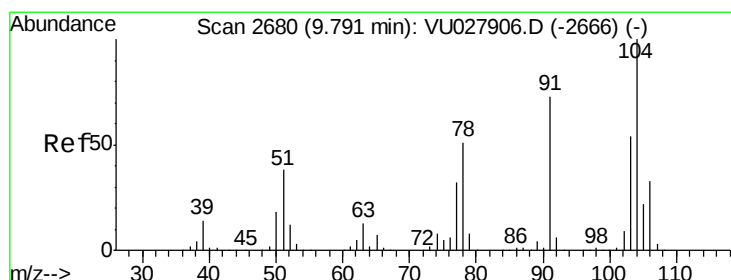
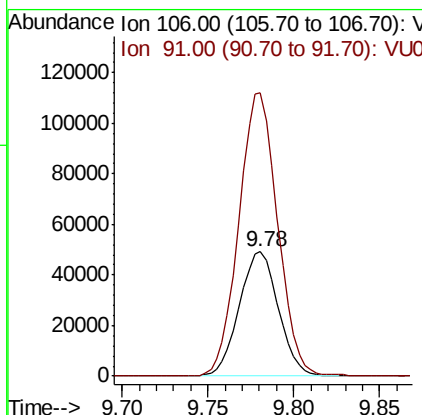
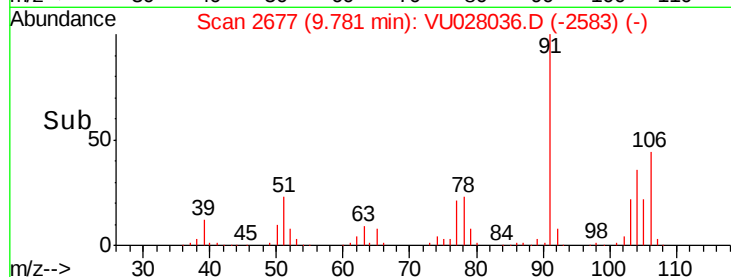
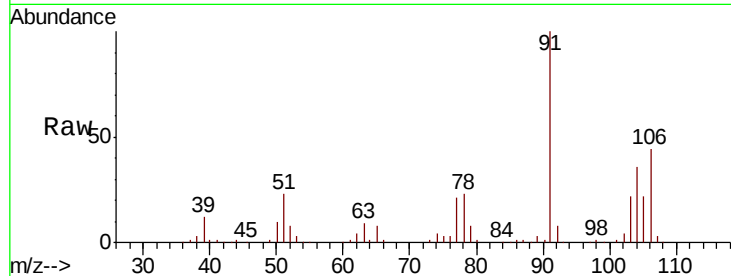
#69
o-Xylene
Concen: 19.393 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion:106 Resp: 77807
Ion Ratio Lower Upper
106 100
91 225.8 111.1 333.4

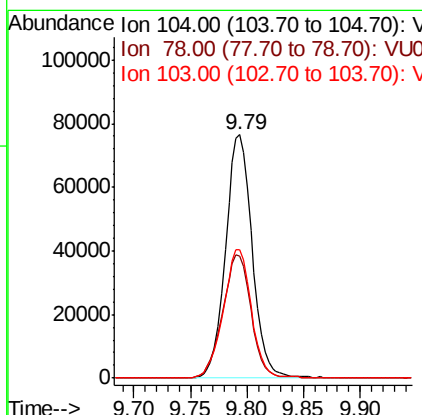
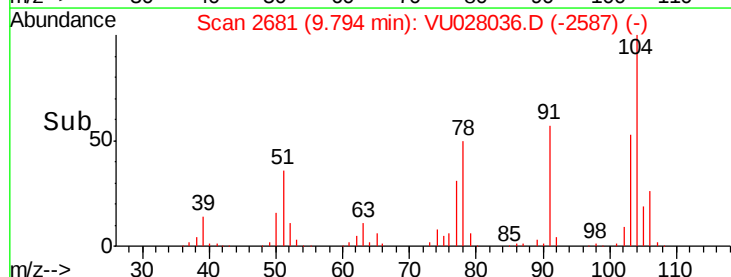
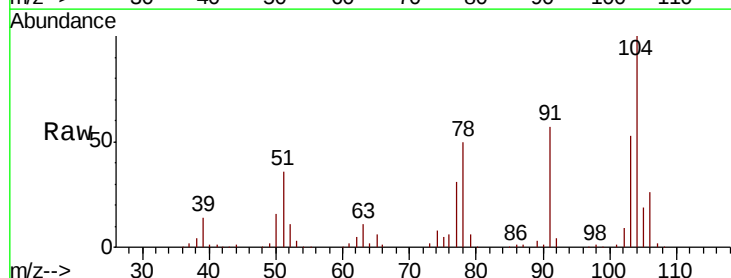
Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#70
Styrene
Concen: 19.571 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion:104 Resp: 125464
Ion Ratio Lower Upper
104 100
78 54.2 43.0 64.4
103 55.6 45.1 67.7





#71

Bromoform

Concen: 18.945 ug/l

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion:173 Resp: 32263

Ion Ratio Lower Upper

173 100

175 47.8 24.3 72.8

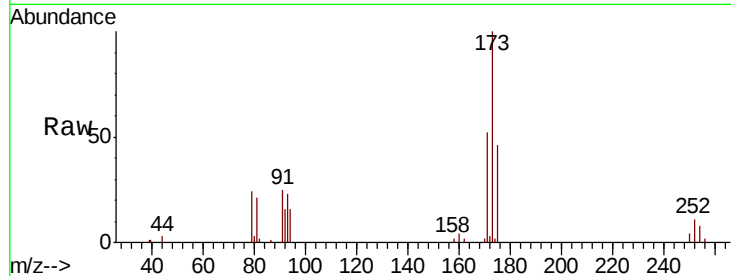
254 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:47 PM

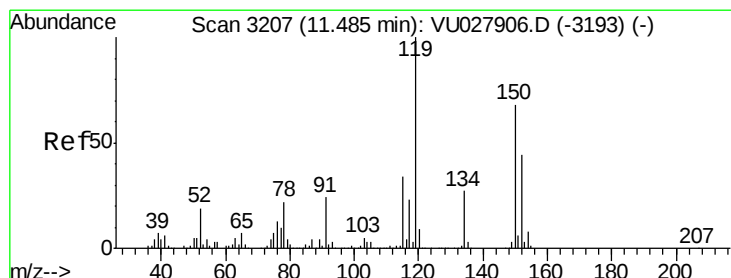
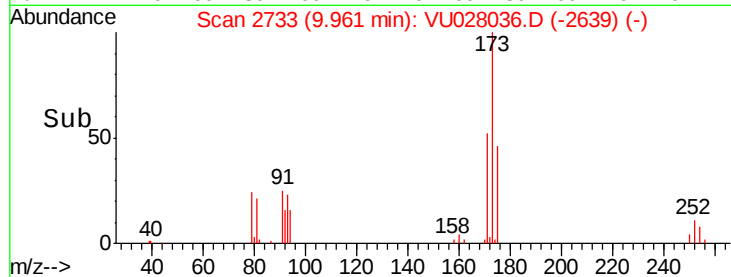
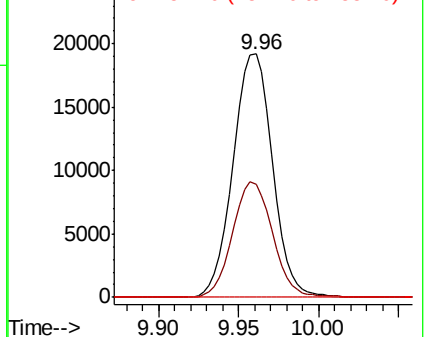


Abundance

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: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

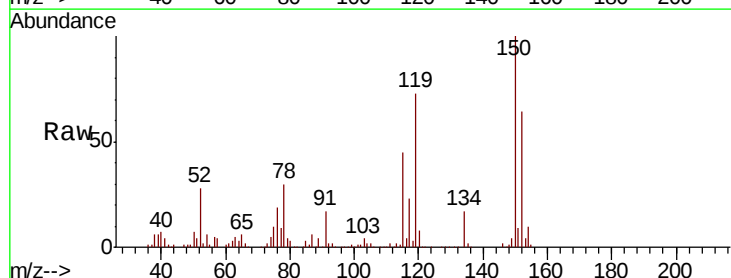
Tgt Ion:152 Resp: 134133

Ion Ratio Lower Upper

152 100

115 69.7 43.0 129.0

150 160.0 0.0 349.4

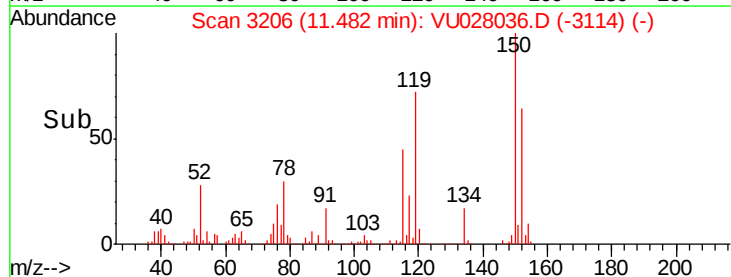
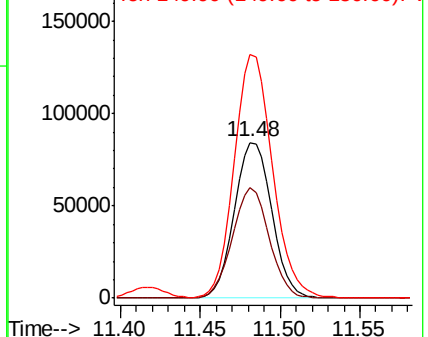


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





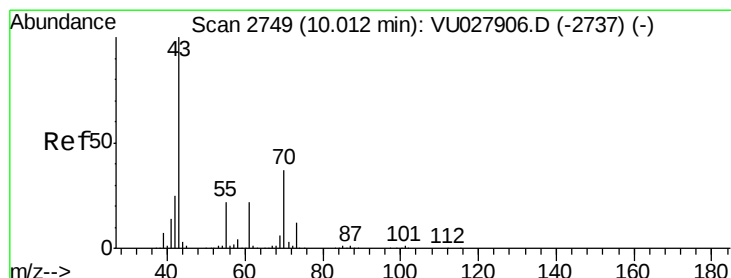
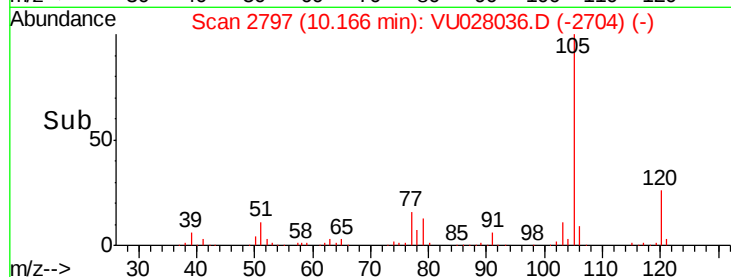
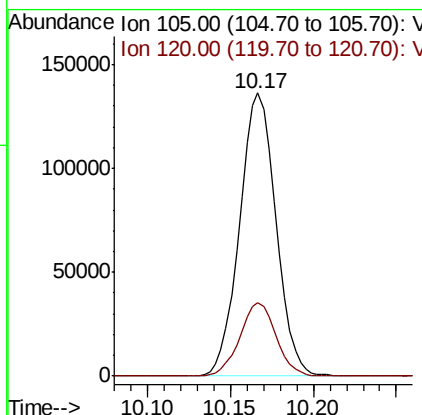
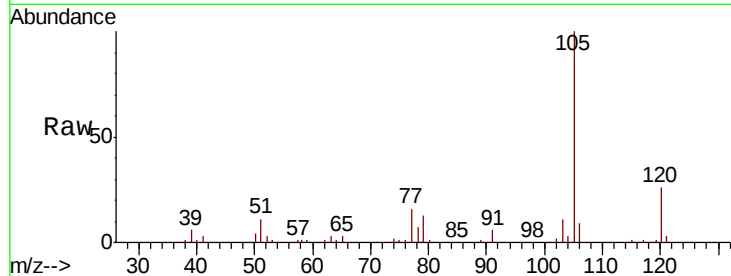
#73
Isopropylbenzene
Concen: 19.971 ug/l
RT: 10.17 min Scan# 2797
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion: 105 Resp: 207522
Ion Ratio Lower Upper
105 100
120 25.9 12.7 38.0

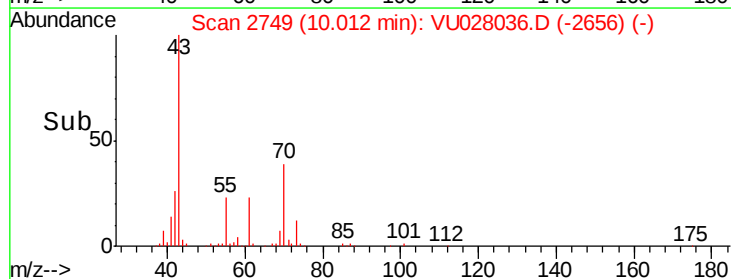
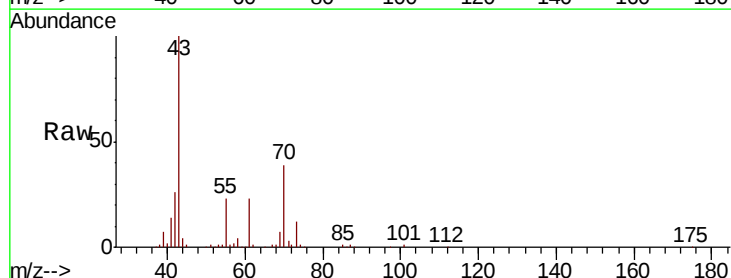
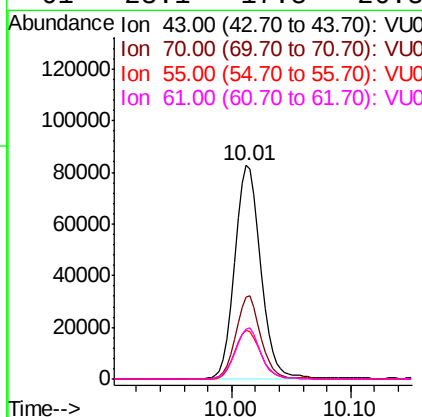
Manual Integrations
APPROVED

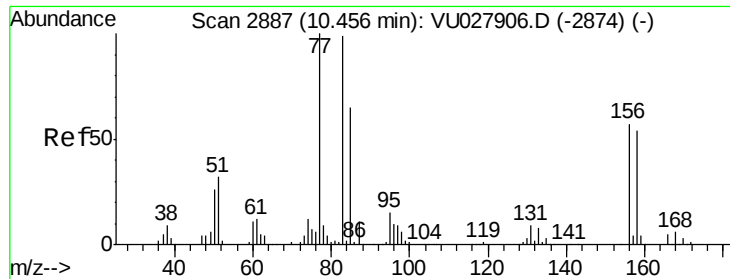
MMDadoda
11/12/2018 12:01:47 PM



#74
N-ethyl acetate
Concen: 20.030 ug/l
RT: 10.01 min Scan# 2749
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion: 43 Resp: 125856
Ion Ratio Lower Upper
43 100
70 37.3 29.2 43.8
55 22.7 17.8 26.6
61 23.1 17.8 26.8





#75

1,1,2,2-Tetrachloroethane

Concen: 19.571 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 83 Resp: 82032

Ion Ratio Lower Upper

83 100

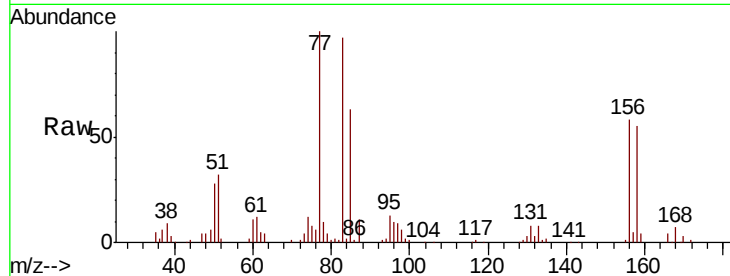
131 8.3 4.3 13.1

85 65.4 32.4 97.2

Manual Integrations
APPROVED

MMDadoda

11/12/2018 12:01:47 PM

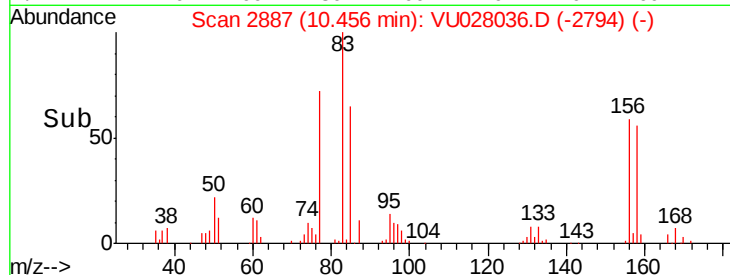


Abundance Ion 82.90 (82.60 to 83.60): VU028036.D (-2794) (-)

Ion 130.80 (130.50 to 131.50): VU028036.D (-2794) (-)

Ion 84.90 (84.60 to 85.60): VU028036.D (-2794) (-)

Time-->



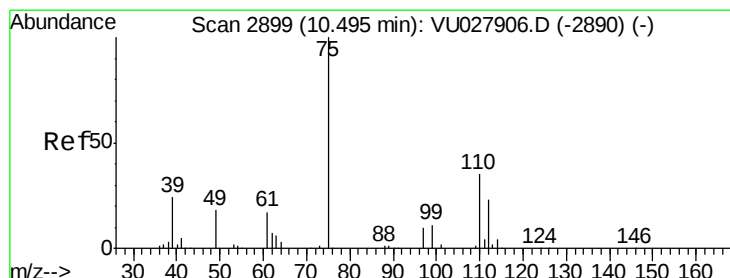
Abundance

Ion 82.90 (82.60 to 83.60): VU028036.D (-2794) (-)

Ion 130.80 (130.50 to 131.50): VU028036.D (-2794) (-)

Ion 84.90 (84.60 to 85.60): VU028036.D (-2794) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 19.454 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028036.D

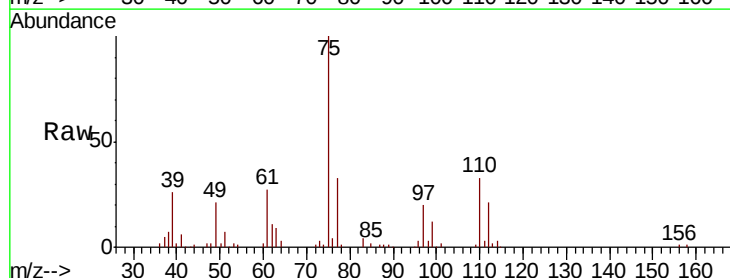
Acq: 09 Nov 2018 11:55

Tgt Ion: 75 Resp: 71377

Ion Ratio Lower Upper

75 100

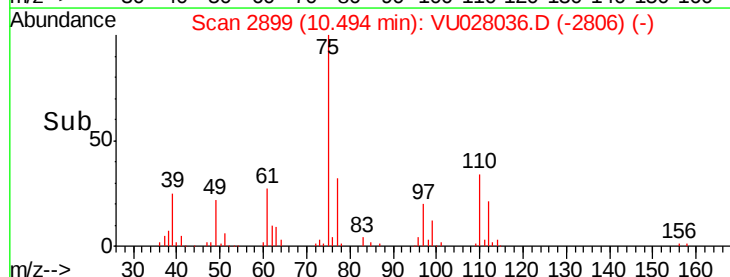
77 43.2 21.6 64.6



Abundance Ion 74.90 (74.60 to 75.60): VU028036.D (-2806) (-)

Ion 77.00 (76.70 to 77.70): VU028036.D (-2806) (-)

Time-->

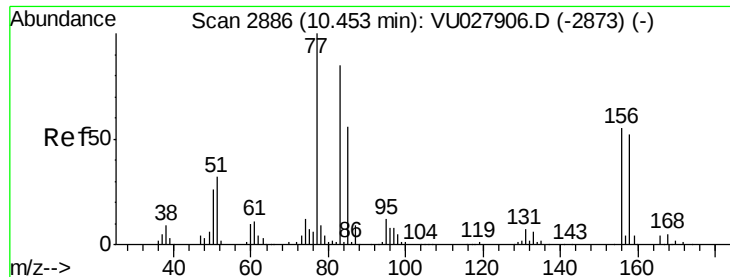


Abundance

Ion 74.90 (74.60 to 75.60): VU028036.D (-2806) (-)

Ion 77.00 (76.70 to 77.70): VU028036.D (-2806) (-)

Time-->



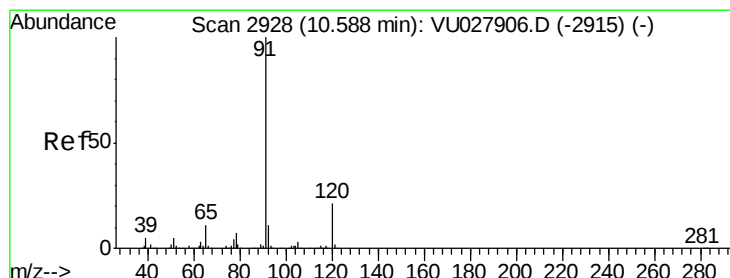
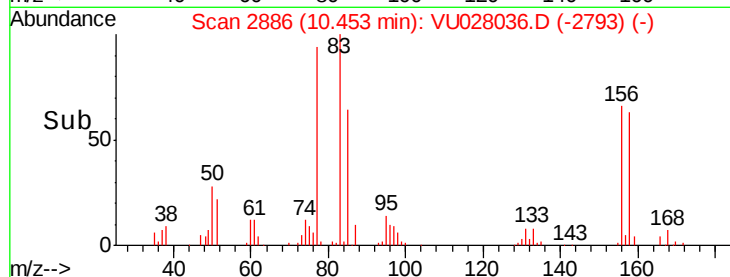
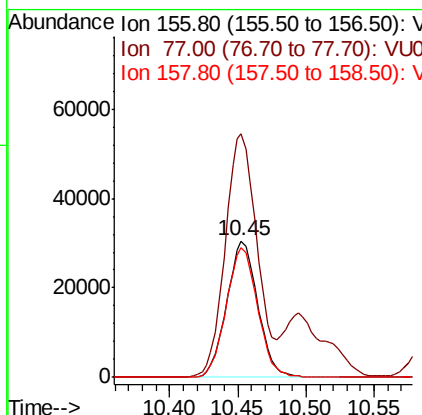
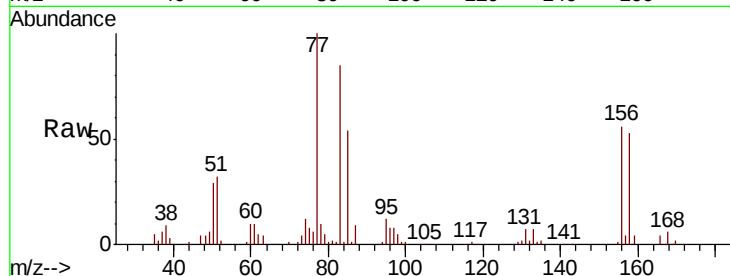
#77
Bromobenzene
Concen: 20.316 ug/l
RT: 10.45 min Scan# 2886
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	183.6	91.8	275.6
158	95.6	48.4	145.2

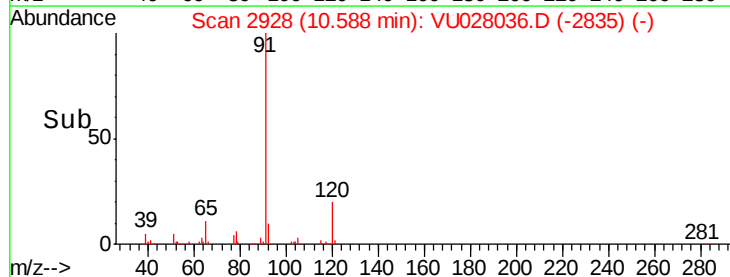
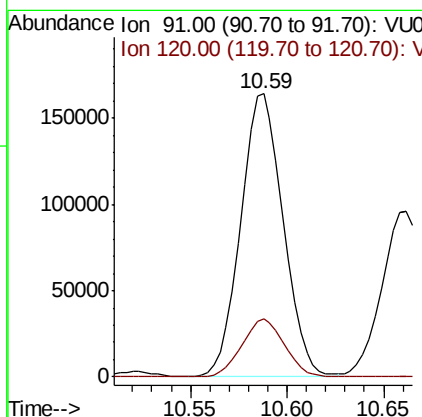
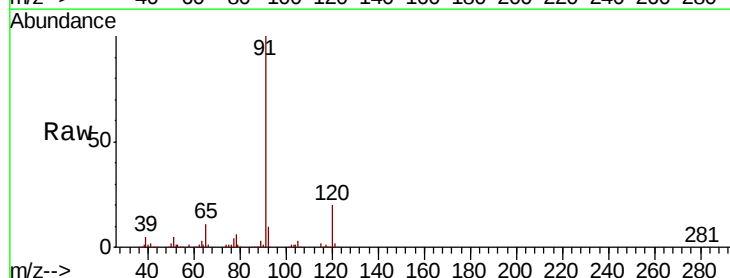
Manual Integrations
APPROVED

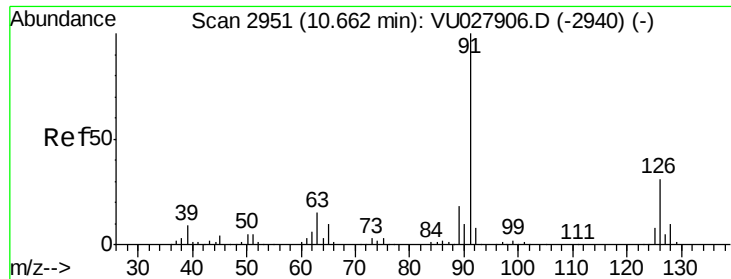
MMDadoda
11/12/2018 12:01:47 PM



#78
n-propylbenzene
Concen: 20.089 ug/l
RT: 10.59 min Scan# 2928
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.5	10.6	31.8





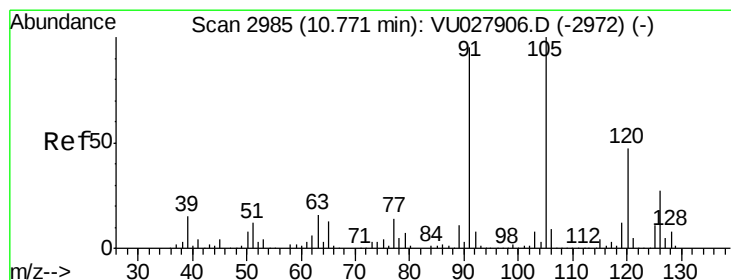
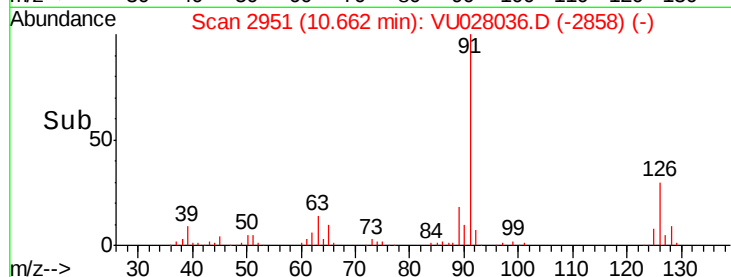
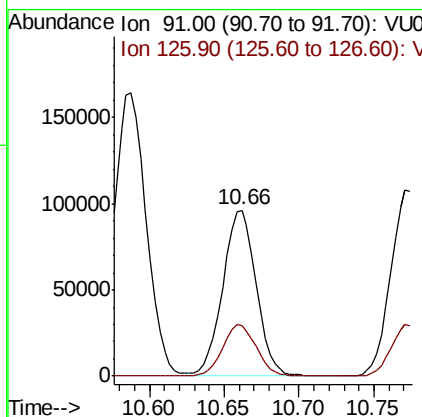
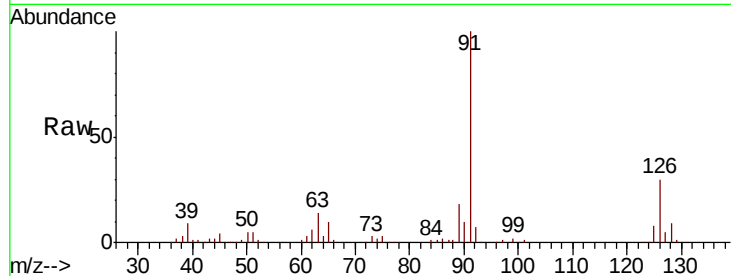
#79
2-Chlorotoluene
Concen: 19.946 ug/l
RT: 10.66 min Scan# 2951
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion: 91 Resp: 148707
Ion Ratio Lower Upper
91 100
126 31.4 16.0 47.9

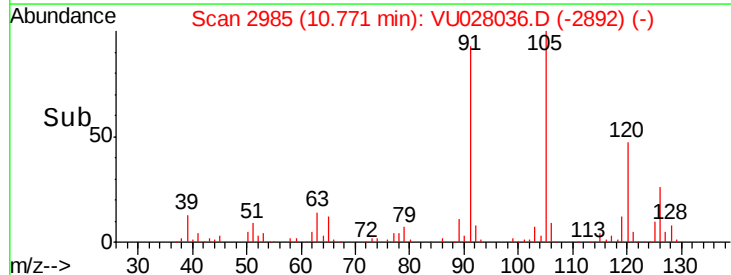
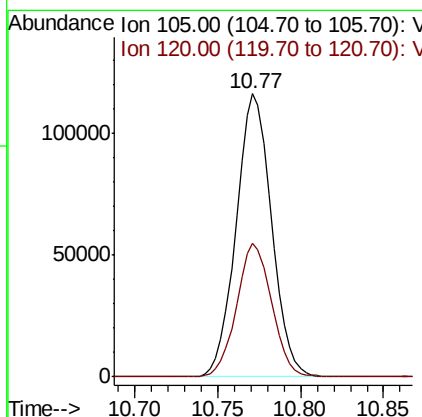
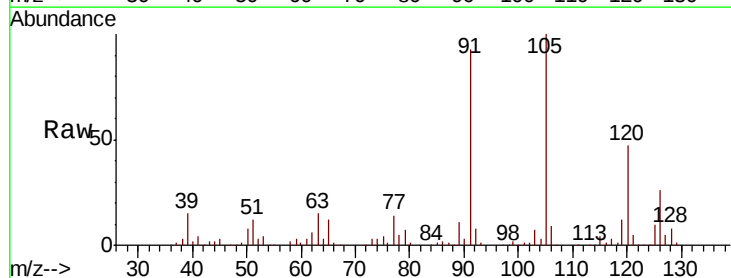
Manual Integrations
APPROVED

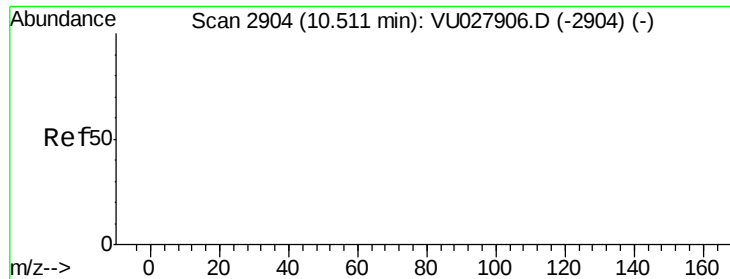
MMDadoda
11/12/2018 12:01:47 PM



#80
1,3,5-Trimethylbenzene
Concen: 20.083 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion: 105 Resp: 172870
Ion Ratio Lower Upper
105 100
120 46.6 23.3 69.9





#81

trans-1,4-Dichloro-2-butene

Concen: 15.584 ug/l m

RT: 10.51 min Scan# 2905

Delta R.T. 0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion: 75 Resp: 22632

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

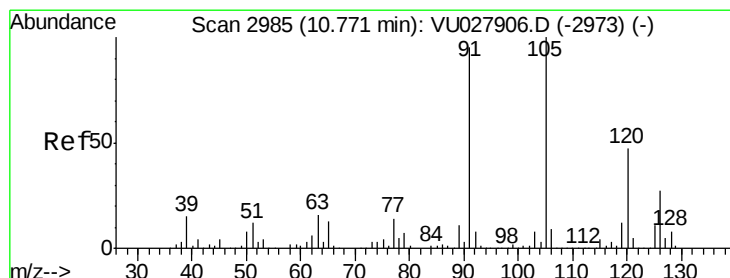
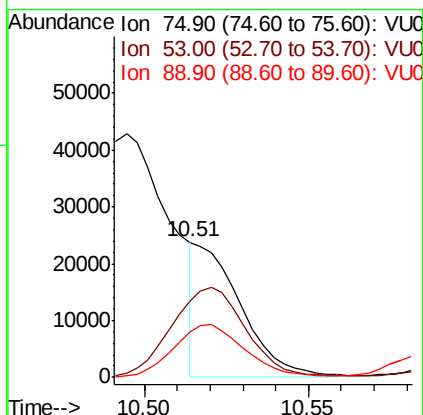
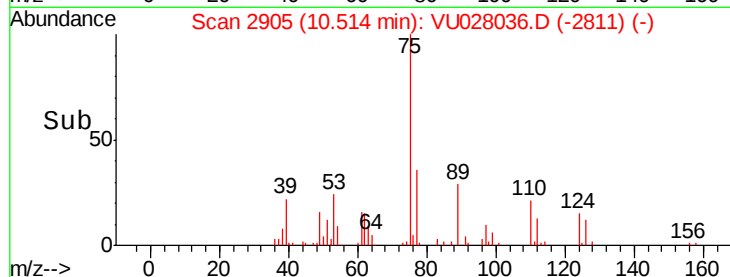
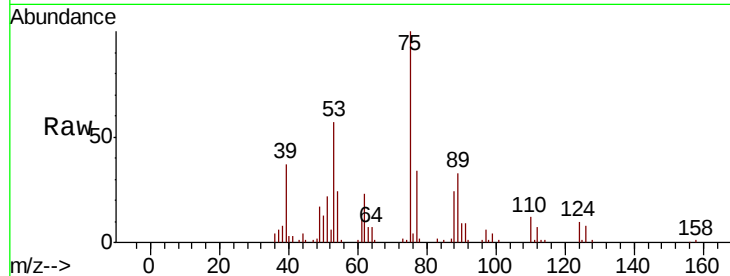
89 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:47 PM



#82

4-Chlorotoluene

Concen: 19.429 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028036.D

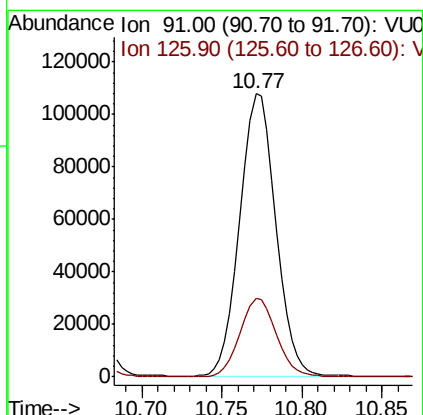
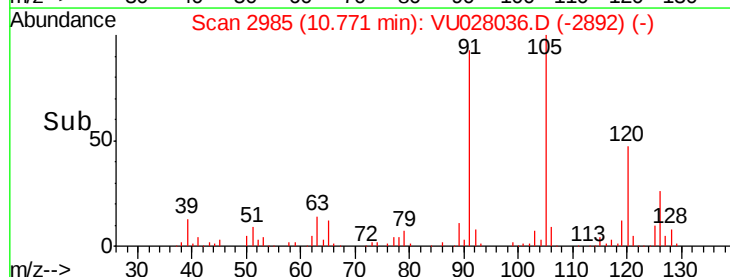
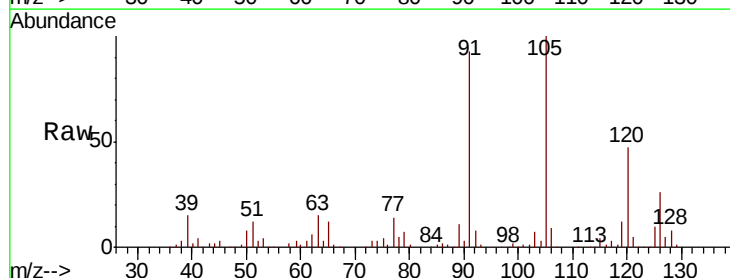
Acq: 09 Nov 2018 11:55

Tgt Ion: 91 Resp: 164444

Ion Ratio Lower Upper

91 100

126 28.2 14.2 42.6





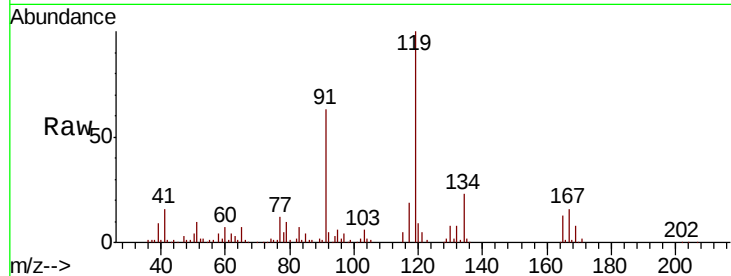
#83
tert-Butylbenzene
Concen: 19.578 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

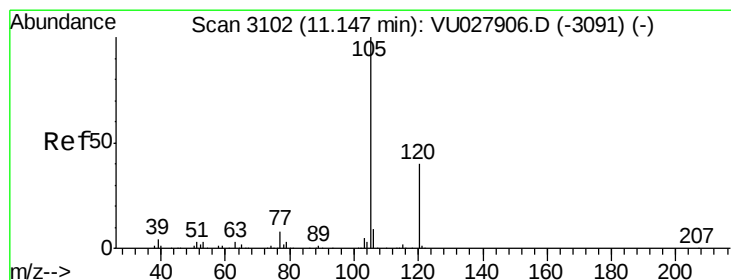
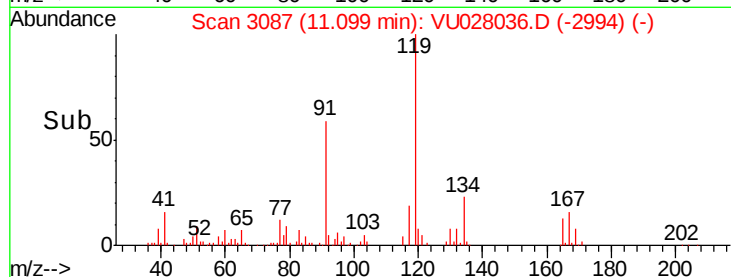
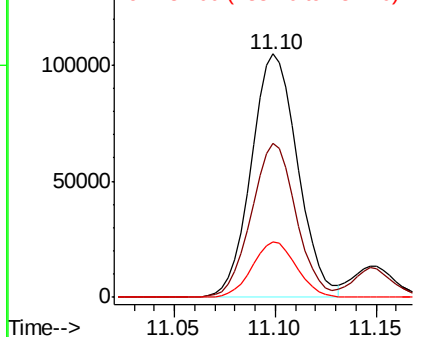
Tot Ion	Ratio	Resp	Lower	Upper
119	100	168476		
91	60.8	29.8	89.3	
134	21.9	11.1	33.1	

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM

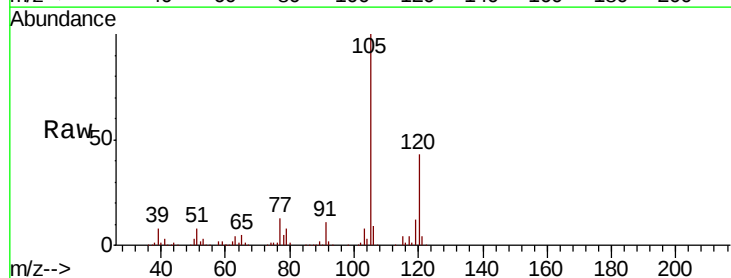


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

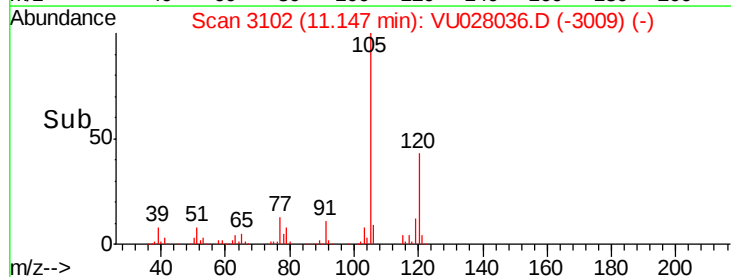
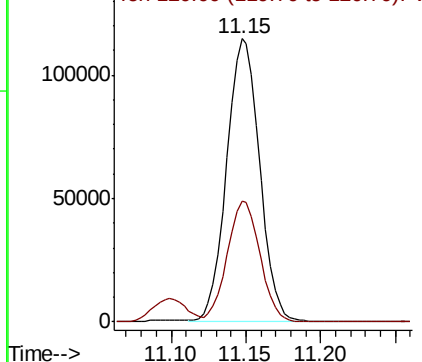


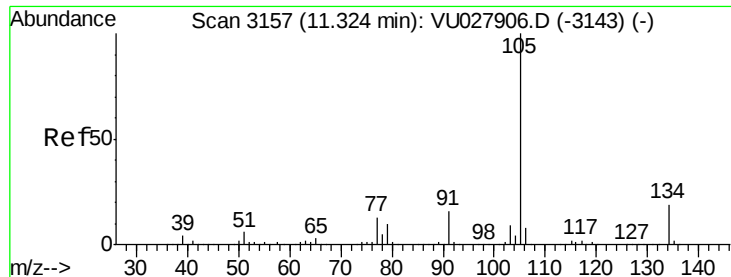
#84
1,2,4-Trimethylbenzene
Concen: 20.253 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	175548		
120	42.3	22.1	66.1	



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





#85

sec-Butylbenzene

Concen: 20.062 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

Instrument :

MSVOA_U

ClientSampleId :

VU1109MBS01

Tot Ion:105 Resp: 209960

Ion Ratio Lower Upper

105 100

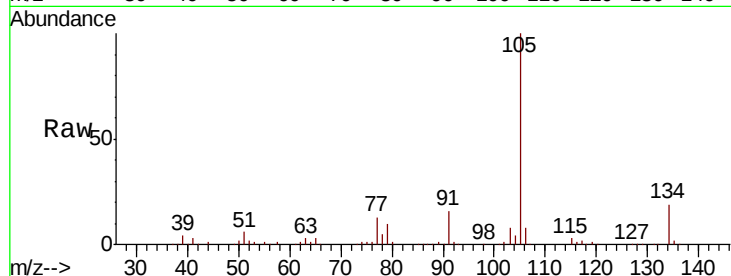
134 18.5 9.2 27.6

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:47 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

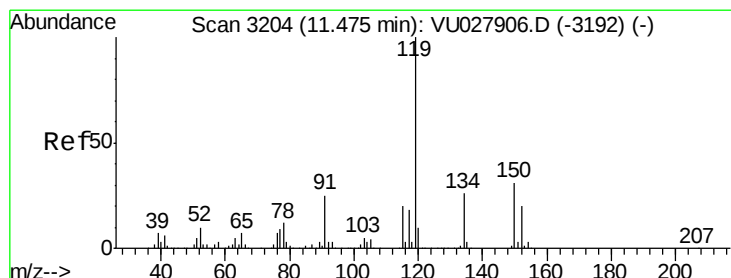
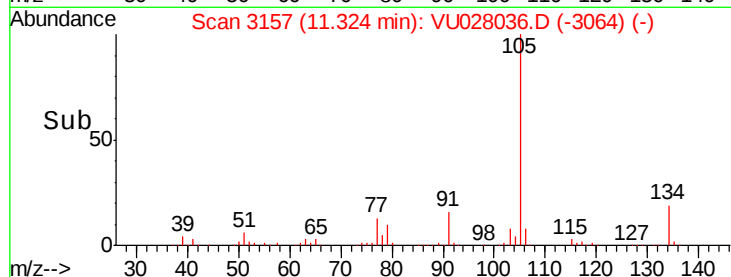
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.982 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU028036.D

Acq: 09 Nov 2018 11:55

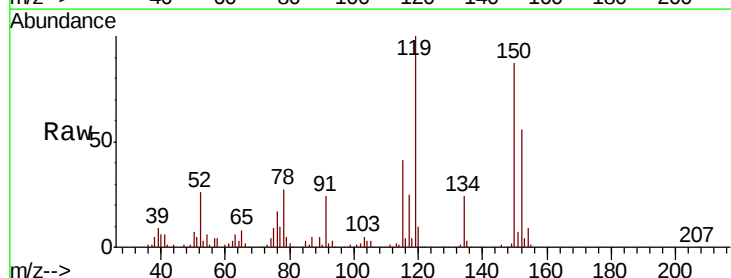
Tgt Ion:119 Resp: 174825

Ion Ratio Lower Upper

119 100

134 24.4 12.9 38.7

91 24.2 12.4 37.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0

11.48

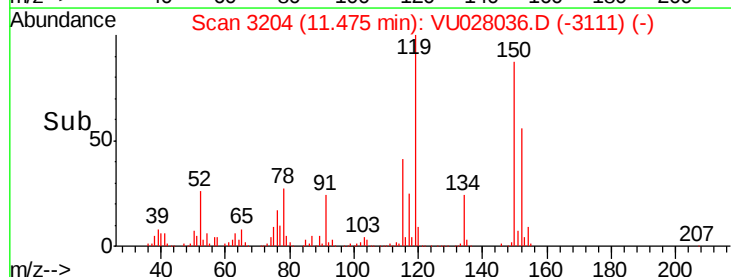
150000

100000

50000

0

Time-->





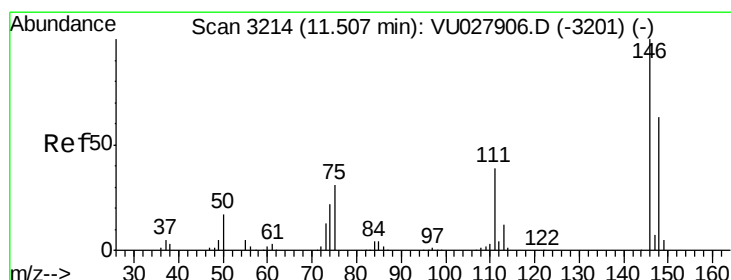
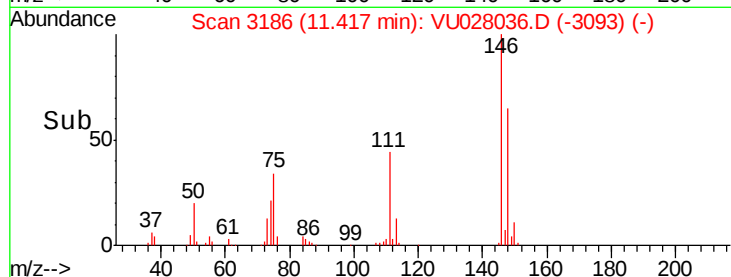
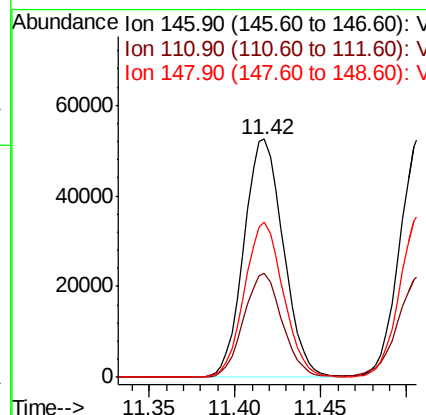
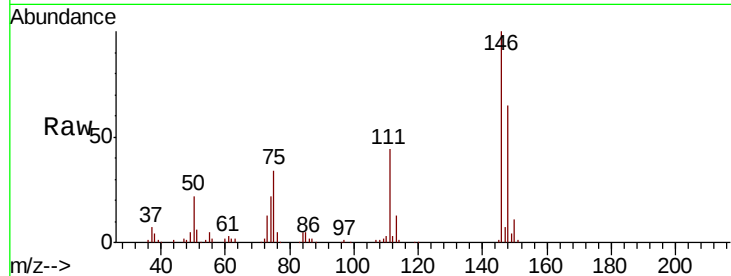
#87
 1,3-Dichlorobenzene
 Concen: 19.063 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.3	61.0
148	64.5	31.8	95.4

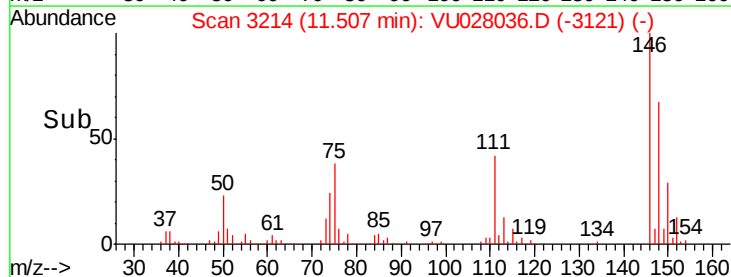
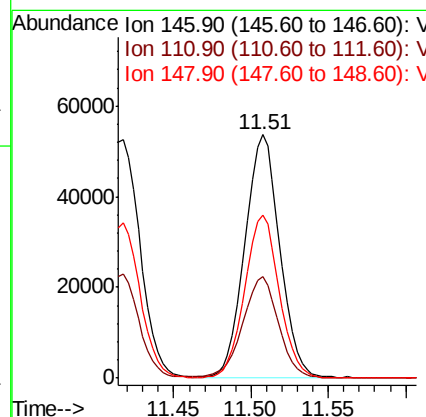
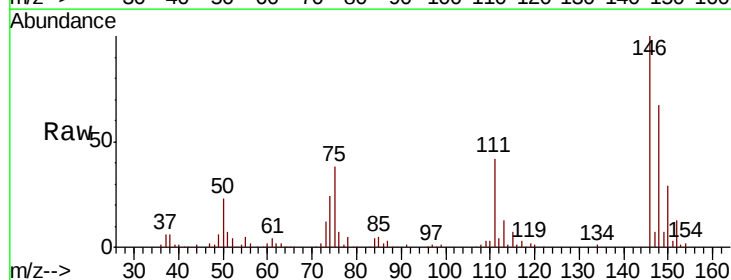
Manual Integrations
 APPROVED

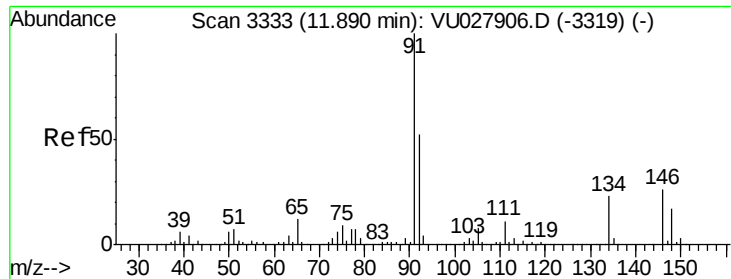
MMDadoda
 11/12/2018 12:01:47 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.592 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.3	60.9
148	67.0	32.0	96.2





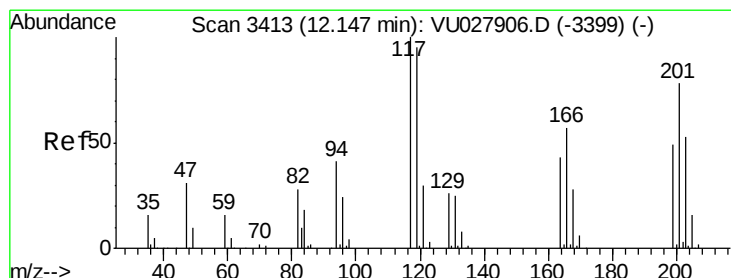
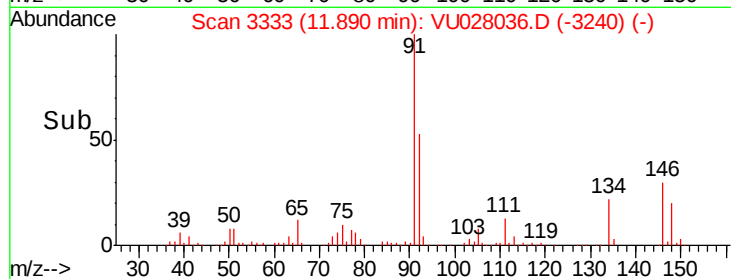
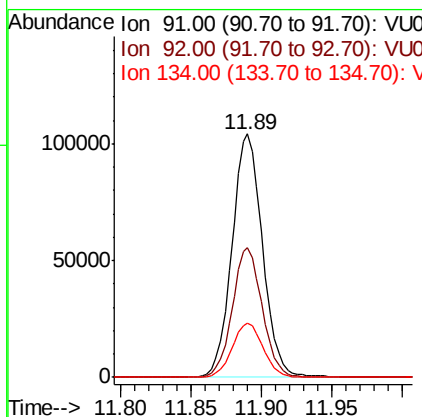
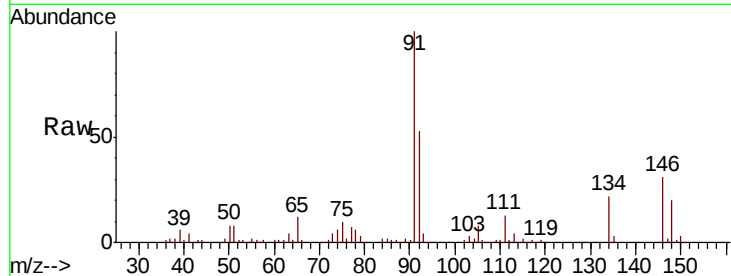
#89
n-Butylbenzene
Concen: 18.939 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.2	78.5
134	22.6	11.5	34.5

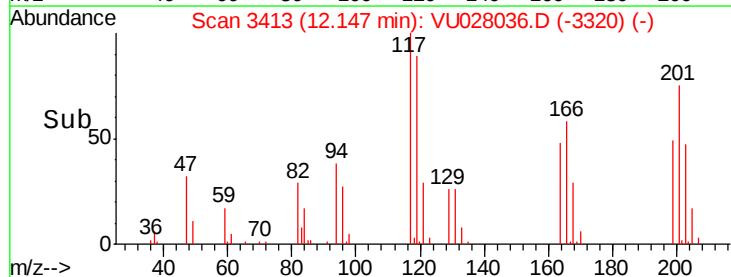
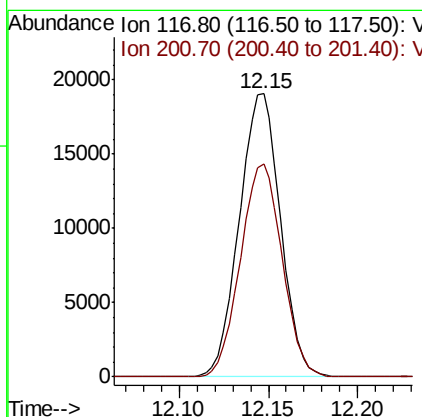
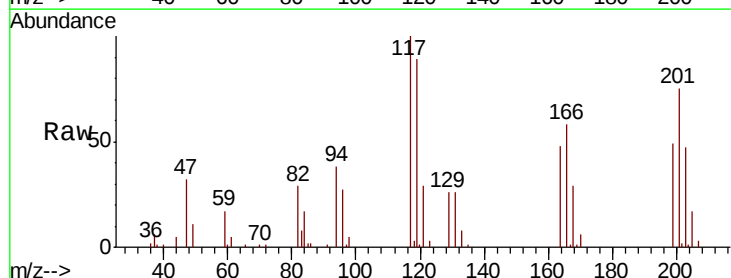
Manual Integrations
APPROVED

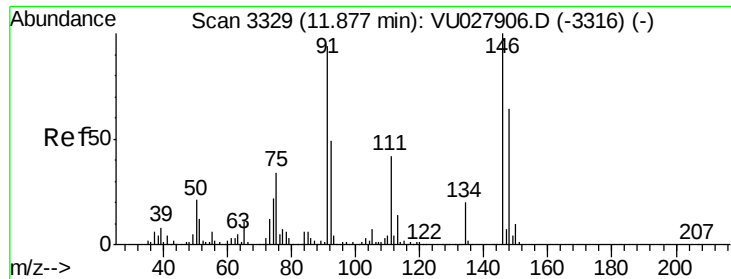
MMDadoda
11/12/2018 12:01:47 PM



#90
Hexachloroethane
Concen: 19.768 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
117	100		
201	76.1	38.5	115.5





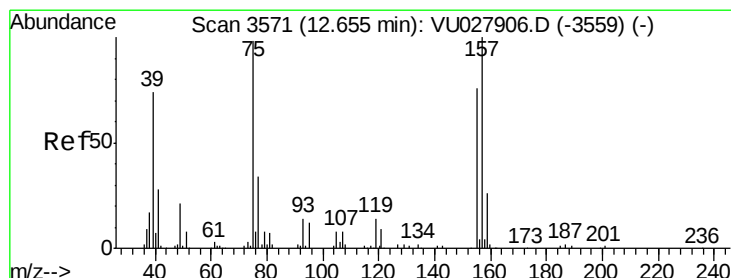
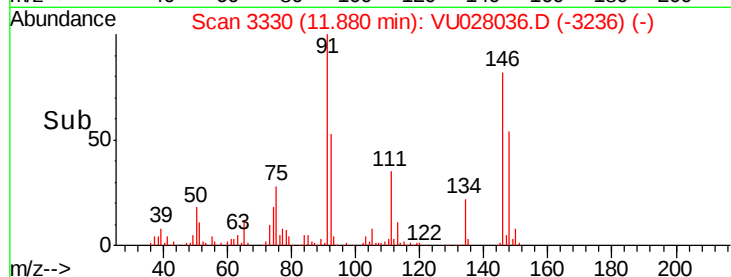
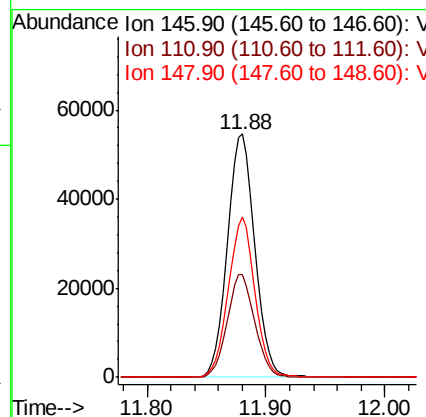
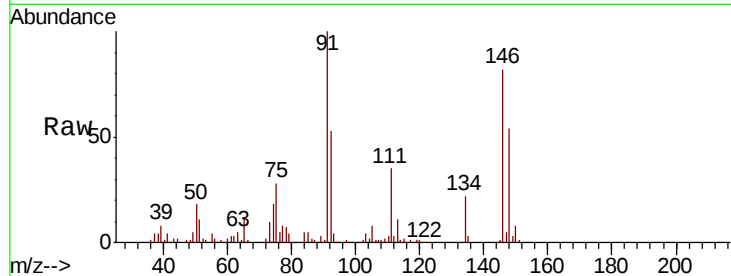
#91
 1,2-Dichlorobenzene
 Concen: 19.767 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.3	64.0
148	63.6	31.8	95.3

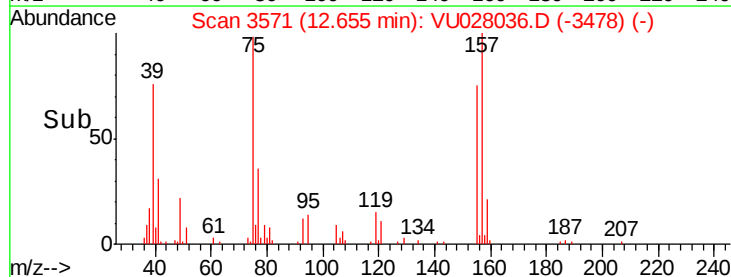
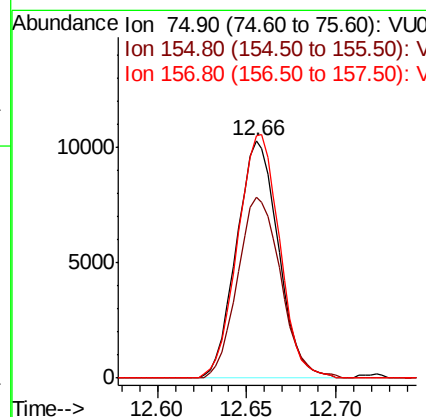
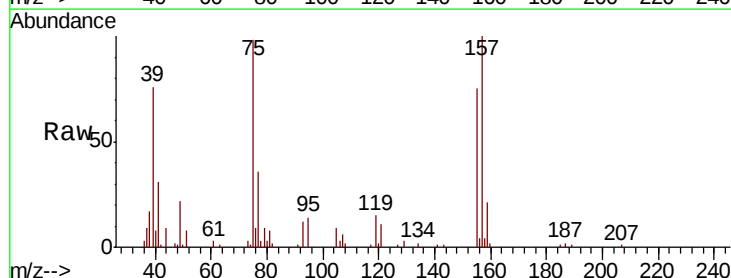
Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:01:47 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.021 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.5	39.8	119.3
157	102.6	50.6	151.9





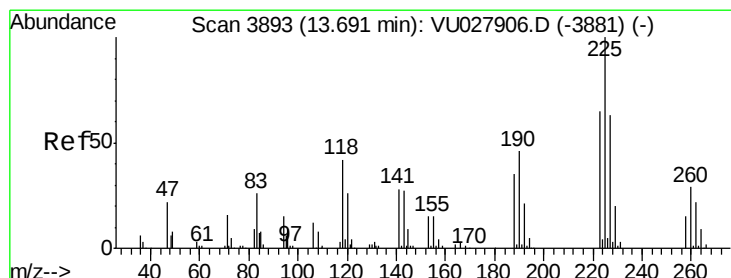
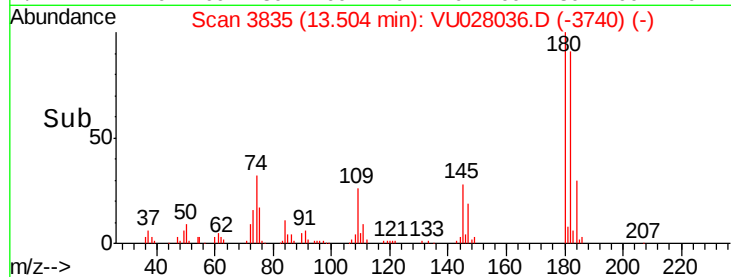
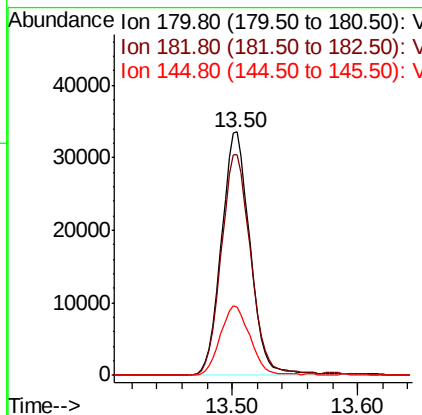
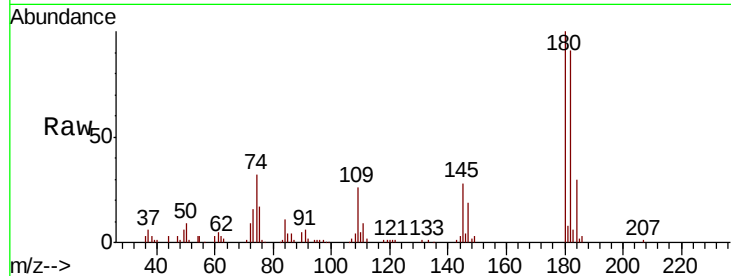
#93
 1,2,4-Trichlorobenzene
 Concen: 17.666 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109MBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	48.4	145.2
145	29.6	14.9	44.5

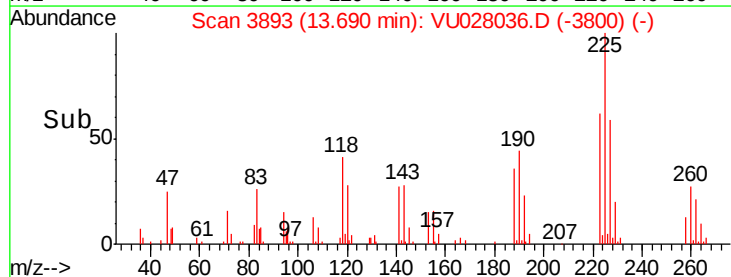
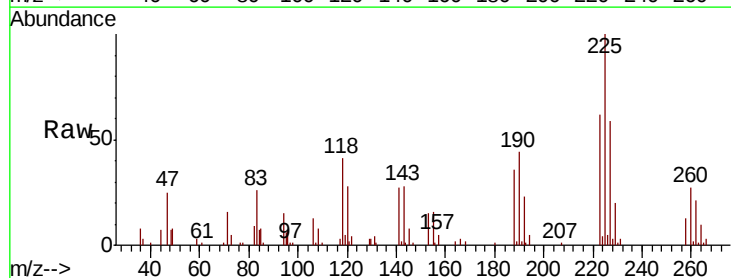
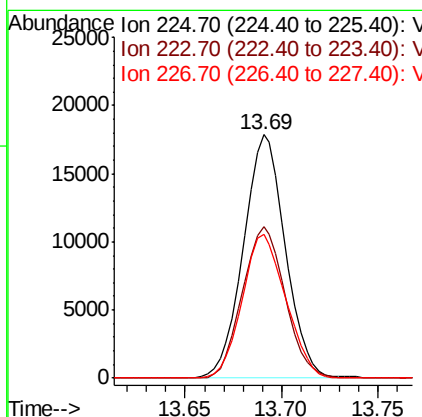
Manual Integrations
 APPROVED

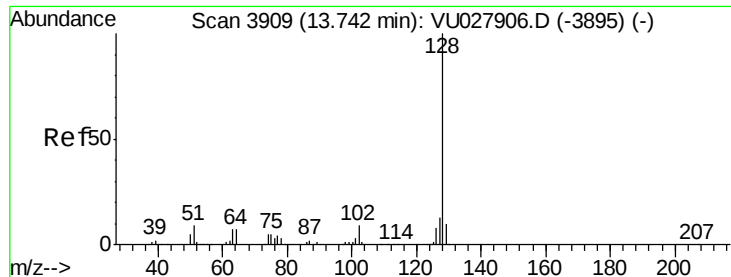
MMDadoda
 11/12/2018 12:01:47 PM



#94
 Hexachlorobutadiene
 Concen: 19.145 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028036.D
 Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	32.2	96.6
227	61.2	32.5	97.4





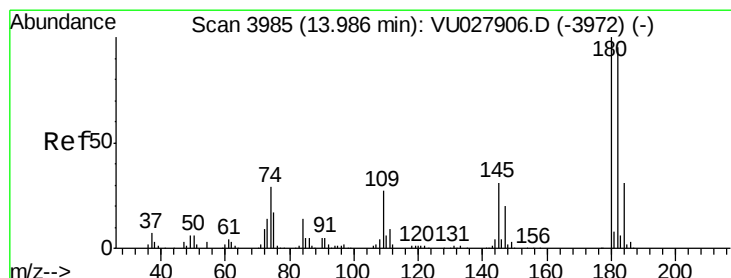
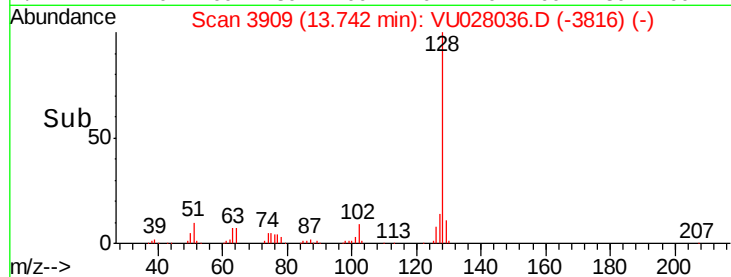
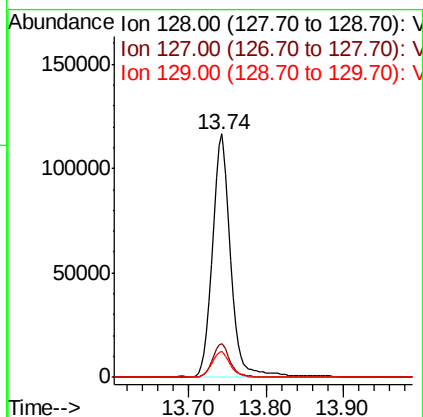
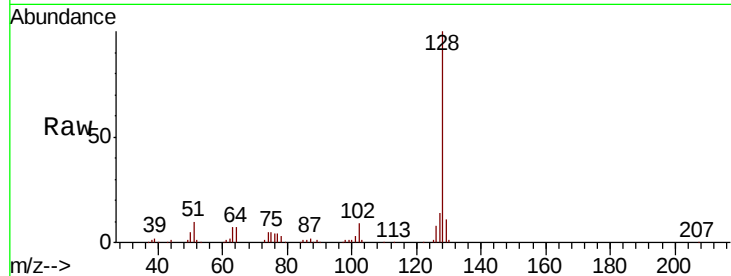
#95
Naphthalene
Concen: 17.850 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. -0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Instrument :
MSVOA_U
ClientSampleId :
VU1109MBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.4	15.6
129	10.3	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:47 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.040 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028036.D
Acq: 09 Nov 2018 11:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.4	142.3
145	32.0	16.0	47.9

