

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029171.D
 Acq On : 15 Jan 2019 09:17
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:41:49 AM

Quant Time: Jan 16 04:42:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	119347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	186740	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	175681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	91384	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.30	65	73307	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
35) Dibromofluoromethane	4.88	113	63661	52.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.18%	
50) Toluene-d8	7.56	98	244294	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
62) 4-Bromofluorobenzene	10.30	95	88225	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	54849	46.342	ug/l	99
3) Chloromethane	1.33	50	79220	41.821	ug/l	99
4) Vinyl Chloride	1.40	62	80132	45.942	ug/l	99
5) Bromomethane	1.61	94	42696	47.459	ug/l	98
6) Chloroethane	1.69	64	48689	46.865	ug/l	100
7) Trichlorofluoromethane	1.88	101	89712	47.202	ug/l	99
8) Diethyl Ether	2.10	74	43550	47.695	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.28	101	61185	48.114	ug/l	100
10) Methyl Iodide	2.41	142	61044	51.052	ug/l	98
11) Tert butyl alcohol	2.83	59	89808	239.478	ug/l	100
12) 1,1-Dichloroethene	2.28	96	57728	46.638	ug/l	99
13) Acrolein	2.19	56	67290	238.959	ug/l	98
14) Allyl chloride	2.59	41	101147	44.536	ug/l	90
15) Acrylonitrile	2.93	53	233197	253.464	ug/l	99
16) Acetone	2.32	43	267314	287.614	ug/l	100
17) Carbon Disulfide	2.48	76	181305	44.168	ug/l	100
18) Methyl Acetate	2.61	43	116731	54.016	ug/l	98
19) Methyl tert-butyl Ether	3.00	73	212773	48.893	ug/l	99
20) Methylene Chloride	2.70	84	74255	47.056	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	67069	46.637	ug/l	99
22) Diisopropyl ether	3.57	45	223932	49.889	ug/l	100
23) Vinyl Acetate	3.52	43	918517	250.312	ug/l	100
24) 1,1-Dichloroethane	3.44	63	130199	50.247	ug/l	100
25) 2-Butanone	4.25	43	344998	274.829	ug/l	99
26) 2,2-Dichloropropane	4.22	77	106854	51.035	ug/l	99
27) cis-1,2-Dichloroethene	4.22	96	76745	48.793	ug/l	98
28) Bromochloromethane	4.54	49	56111	50.572	ug/l	100
29) Tetrahydrofuran	4.63	42	191601	251.653	ug/l	99
30) Chloroform	4.67	83	125163	50.714	ug/l	98
31) Cyclohexane	4.99	56	116748	47.678	ug/l	96
32) 1,1,1-Trichloroethane	4.91	97	100573	49.318	ug/l	97
36) 1,1-Dichloropropene	5.13	75	95995	51.429	ug/l	98
37) Ethyl Acetate	4.38	43	107253	52.348	ug/l	99
38) Carbon Tetrachloride	5.13	117	85054	54.634	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029171.D
 Acq On : 15 Jan 2019 09:17
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:41:49 AM

Quant Time: Jan 16 04:42:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	116420	50.735	ug/l	99
40) Benzene	5.39	78	295646	50.778	ug/l	100
41) Methacrylonitrile	4.54	41	59859	54.580	ug/l	99
42) 1,2-Dichloroethane	5.40	62	93297	53.327	ug/l	99
43) Isopropyl Acetate	5.54	43	168451	53.597	ug/l	100
44) Trichloroethene	6.18	130	73594	51.015	ug/l	97
45) 1,2-Dichloropropane	6.43	63	81282	52.865	ug/l	100
46) Dibromomethane	6.56	93	51420	52.315	ug/l	99
47) Bromodichloromethane	6.75	83	97848	54.069	ug/l	98
48) Methyl methacrylate	6.62	41	84294	55.081	ug/l	100
49) 1,4-Dioxane	6.61	88	39533	1090.046	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	574686	268.679	ug/l	99
52) Toluene	7.63	92	184488	52.050	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	112732	51.857	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	124042	52.806	ug/l	99
55) 1,1,2-Trichloroethane	8.06	97	76555	53.914	ug/l	98
56) Ethyl methacrylate	8.02	69	114625	52.398	ug/l	98
57) 1,3-Dichloropropane	8.24	76	127661	52.542	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.12	63	230148	239.223	ug/l	99
59) 2-Hexanone	8.36	43	464104	276.419	ug/l	99
60) Dibromochloromethane	8.47	129	75987	54.015	ug/l	99
61) 1,2-Dibromoethane	8.58	107	80201	52.078	ug/l	100
64) Tetrachloroethene	8.22	164	65435	51.706	ug/l	94
65) Chlorobenzene	9.12	112	198214	50.334	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.21	131	68429	53.546	ug/l	99
67) Ethyl Benzene	9.25	91	344649	52.421	ug/l	100
68) m/p-Xylenes	9.37	106	266189	104.201	ug/l	99
69) o-Xylene	9.78	106	130773	53.129	ug/l	98
70) Styrene	9.79	104	216074	53.549	ug/l	100
71) Bromoform	9.95	173	61545	54.086	ug/l #	100
73) Isopropylbenzene	10.16	105	340485	50.338	ug/l	99
74) N-amyl acetate	10.01	43	145354	49.869	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	132278	48.795	ug/l	98
76) 1,2,3-Trichloropropane	10.49	75	116310m	51.946	ug/l	
77) Bromobenzene	10.45	156	88320	50.105	ug/l	99
78) n-propylbenzene	10.58	91	418355	52.483	ug/l	99
79) 2-Chlorotoluene	10.66	91	237169	49.048	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	289546	51.261	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	36958m	42.570	ug/l	
82) 4-Chlorotoluene	10.77	91	277485	50.045	ug/l	100
83) tert-Butylbenzene	11.10	119	282451	50.734	ug/l	99
84) 1,2,4-Trimethylbenzene	11.14	105	294955	52.302	ug/l	99
85) sec-Butylbenzene	11.32	105	356686	52.975	ug/l	100
86) p-Isopropyltoluene	11.47	119	307832	53.653	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	160488	49.638	ug/l	99
88) 1,4-Dichlorobenzene	11.50	146	163860	49.098	ug/l	98
89) n-Butylbenzene	11.89	91	294534	57.517	ug/l	100
90) Hexachloroethane	12.14	117	48907	50.671	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	159160	48.874	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.65	75	26849	51.494	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
Data File : VU029171.D
Acq On : 15 Jan 2019 09:17
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM

Quant Time: Jan 16 04:42:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	110861	53.329	ug/l	98
94) Hexachlorobutadiene	13.69	225	53244	55.997	ug/l	99
95) Naphthalene	13.74	128	352088	49.788	ug/l	100
96) 1,2,3-Trichlorobenzene	13.98	180	110470	51.595	ug/l	99

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

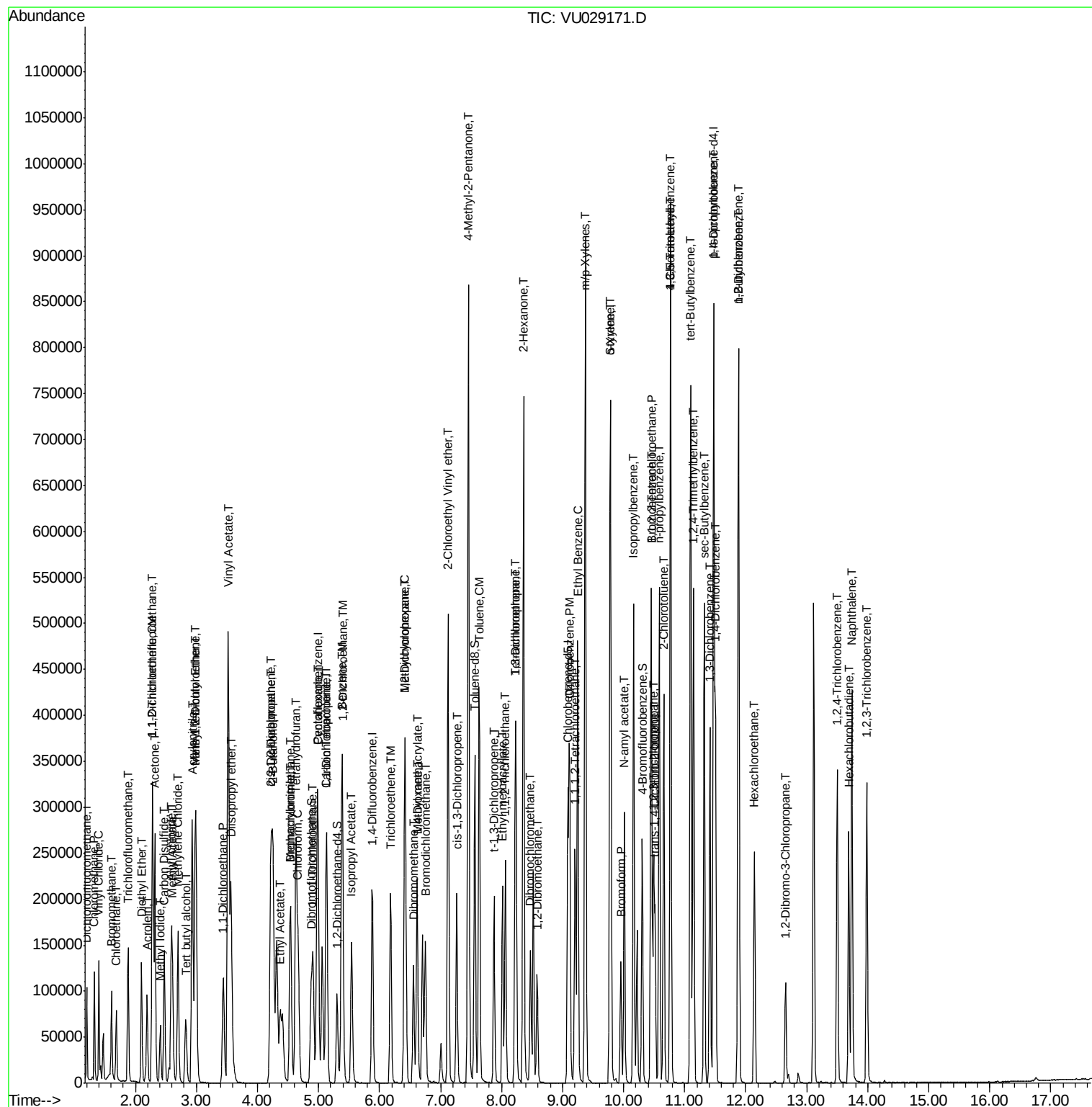
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU011519\
Data File : VU029171.D
Acq On : 15 Jan 2019 09:17
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

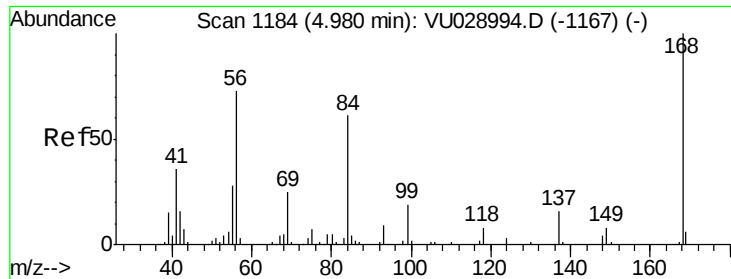
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM

Quant Time: Jan 16 04:42:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 119347

Ion Ratio Lower Upper

168 100

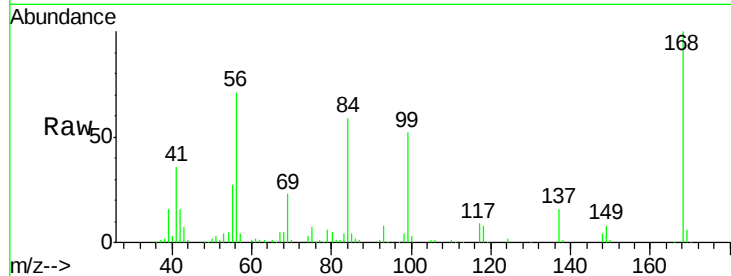
99 51.9 42.0 63.0

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:41:49 AM



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

60000

50000

40000

30000

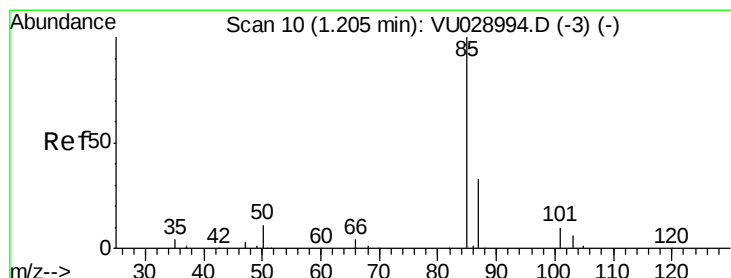
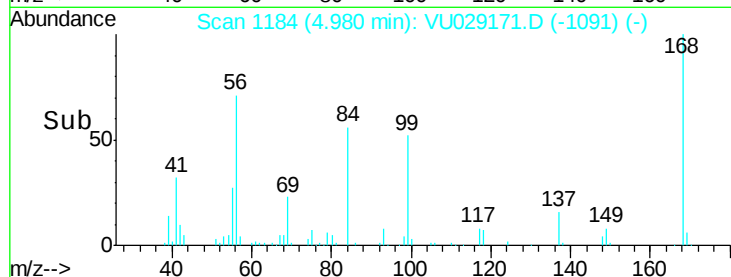
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 46.342 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU029171.D

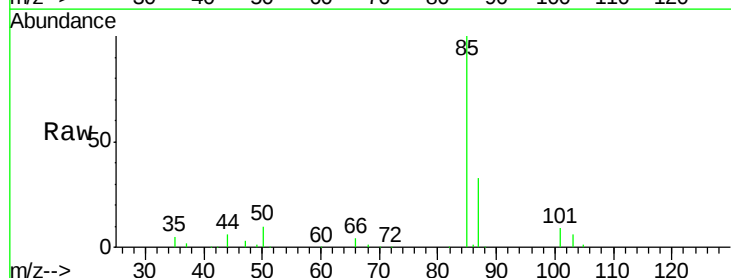
Acq: 15 Jan 2019 09:17

Tgt Ion: 85 Resp: 54849

Ion Ratio Lower Upper

85 100

87 32.8 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VU028994.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028994.D (-3) (-)

1.21

60000

50000

40000

30000

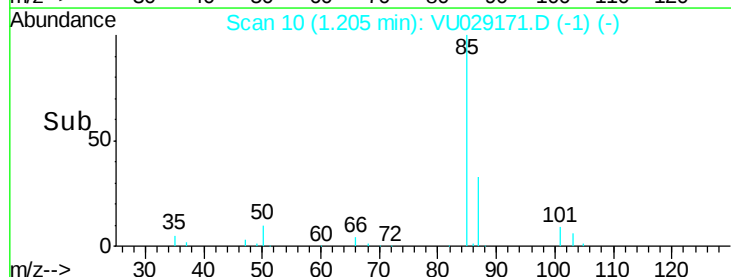
20000

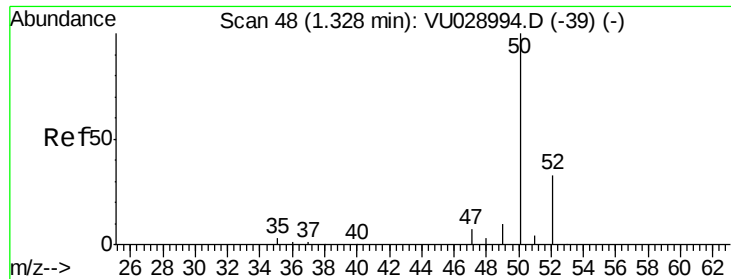
10000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 41.821 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tot Ion: 50 Resp: 79220

Ion Ratio Lower Upper

50 100

52 32.3 26.1 39.1

Instrument :

MSVOA_U

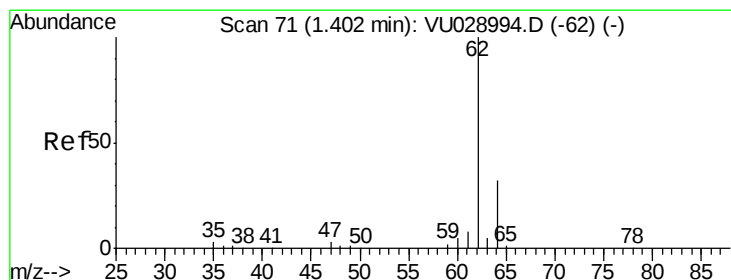
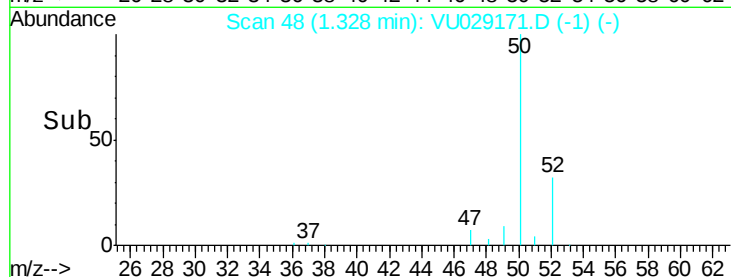
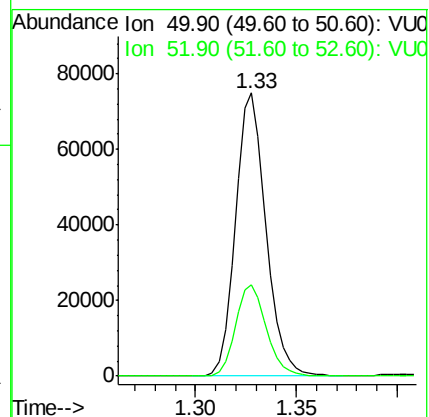
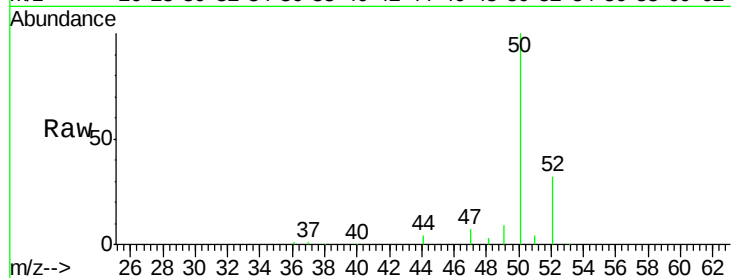
ClientSampleId :

VSTDCCC050

Manual Integrations
APPROVED

MMDadoda

1/16/2019 9:41:49 AM



#4

Vinyl Chloride

Concen: 45.942 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU029171.D

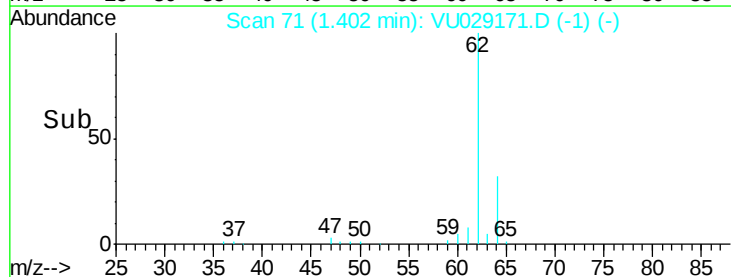
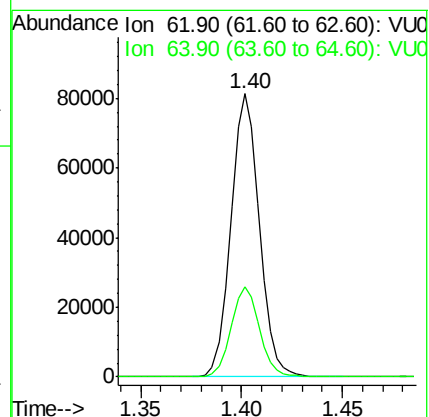
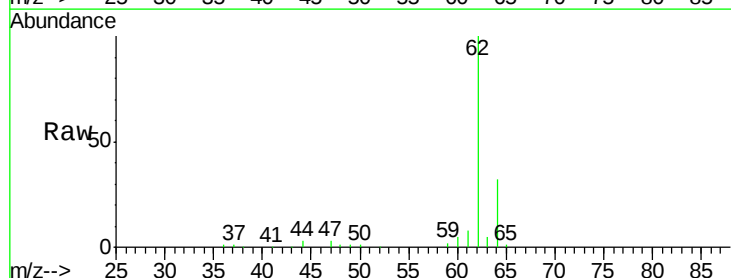
Acq: 15 Jan 2019 09:17

Tgt Ion: 62 Resp: 80132

Ion Ratio Lower Upper

62 100

64 31.9 25.9 38.9





#5

Bromomethane

Concen: 47.459 ug/l

RT: 1.61 min Scan# 136

Delta R.T. 0.01 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 42696

Ion Ratio Lower Upper

94 100

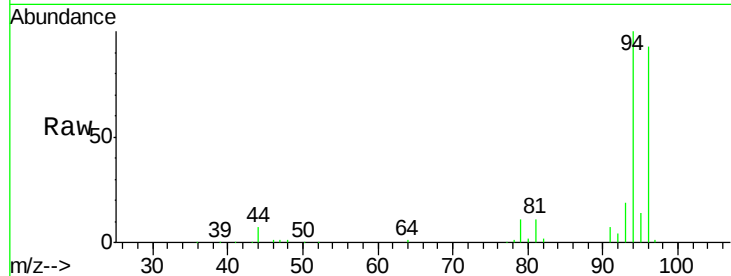
96 92.6 75.5 113.3

Manual Integrations

APPROVED

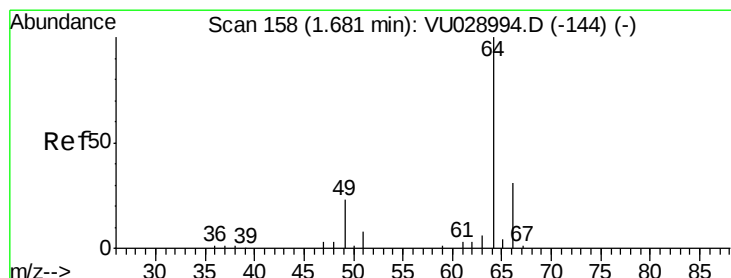
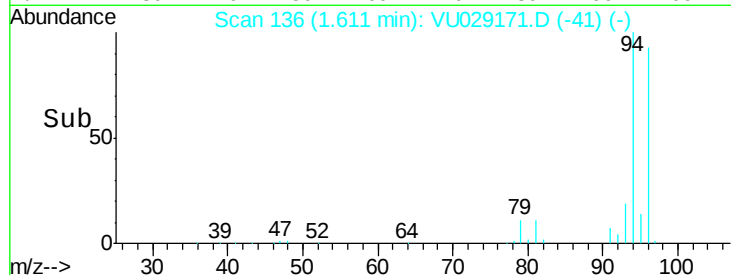
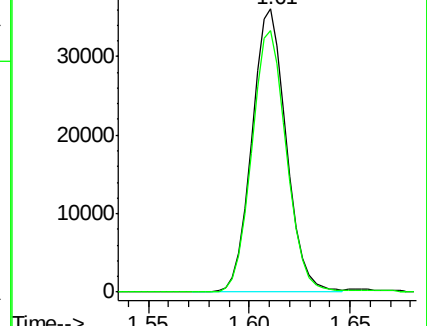
MMDadoda

1/16/2019 9:41:49 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 46.865 ug/l

RT: 1.69 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU029171.D

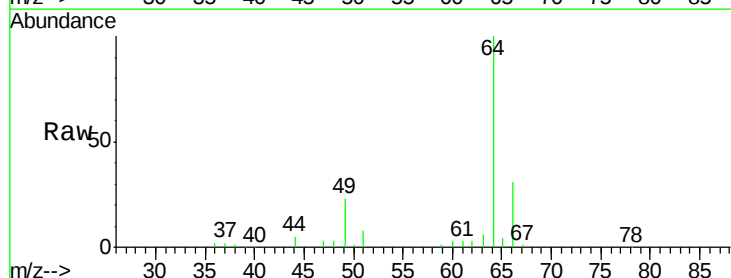
Acq: 15 Jan 2019 09:17

Tgt Ion: 64 Resp: 48689

Ion Ratio Lower Upper

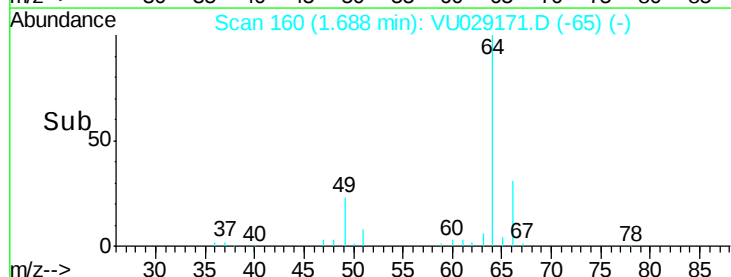
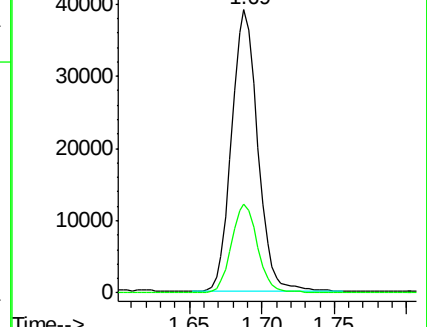
64 100

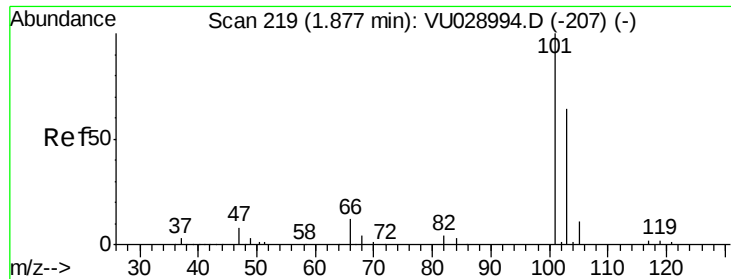
66 31.5 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

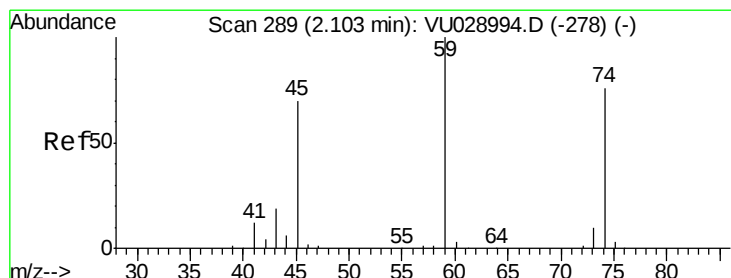
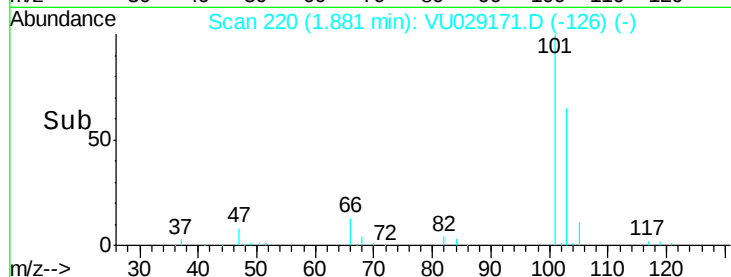
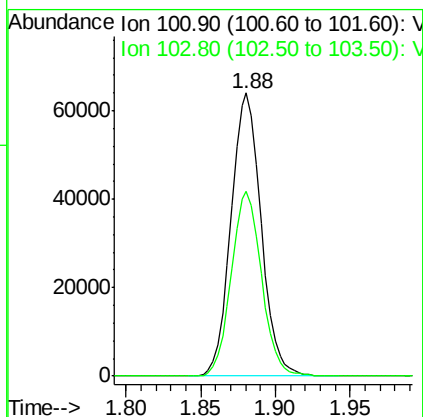
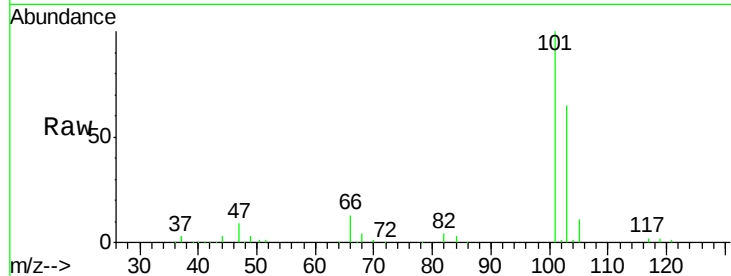
Trichlorofluoromethane
 Concen: 47.202 ug/l
 RT: 1.88 min Scan# 220
 Delta R.T. 0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion:101 Resp: 89712
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.5 77.3

Manual Integrations
 APPROVED

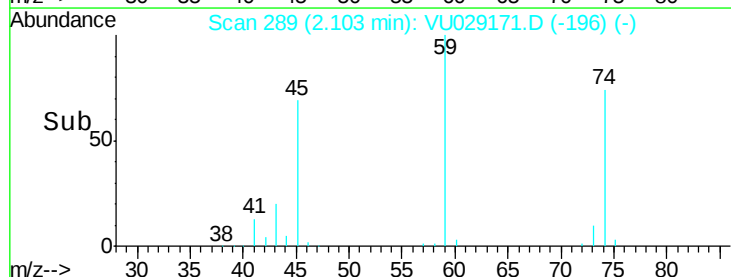
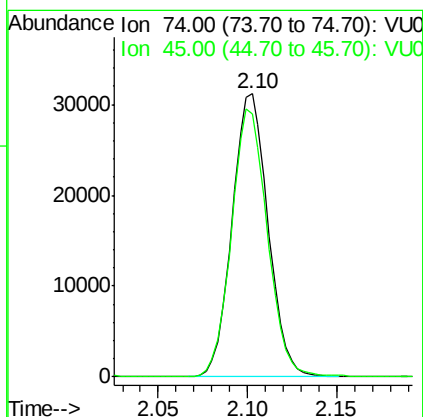
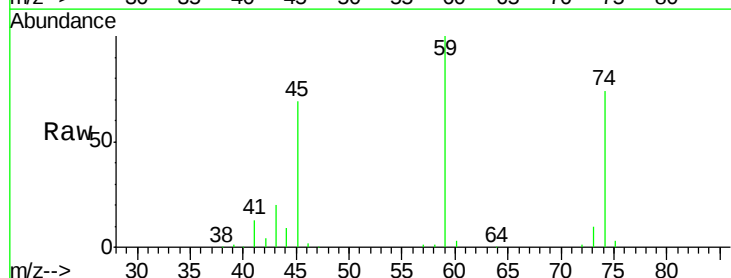
MMDadoda
 1/16/2019 9:41:49 AM

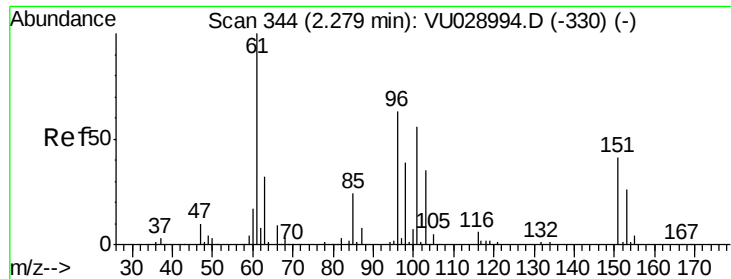


#8

Diethyl Ether
 Concen: 47.695 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Tgt Ion: 74 Resp: 43550
 Ion Ratio Lower Upper
 74 100
 45 95.0 46.9 140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.114 ug/l

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

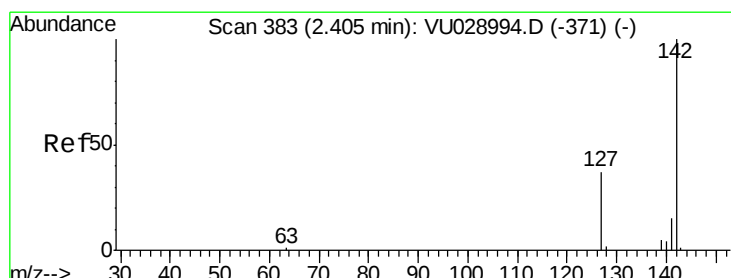
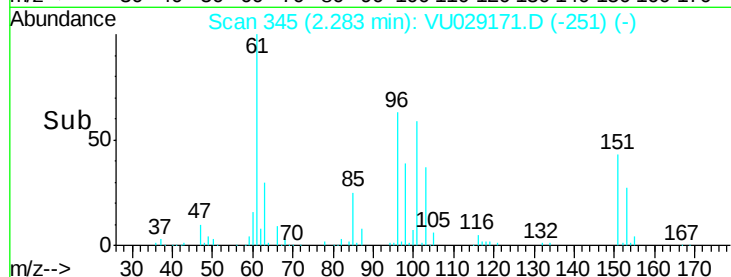
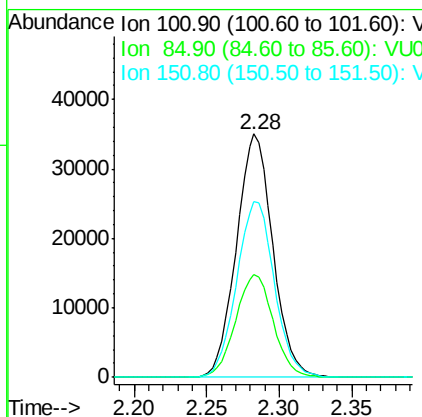
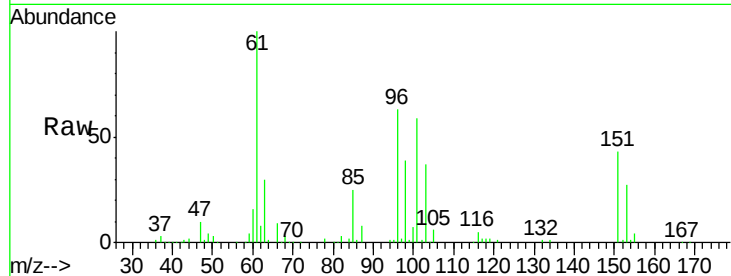
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	61185
Ion Ratio	Lower	Upper	
101	100		
85	43.5	35.1	52.7
151	74.8	60.2	90.2

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM



#10

Methyl Iodide

Concen: 51.052 ug/l

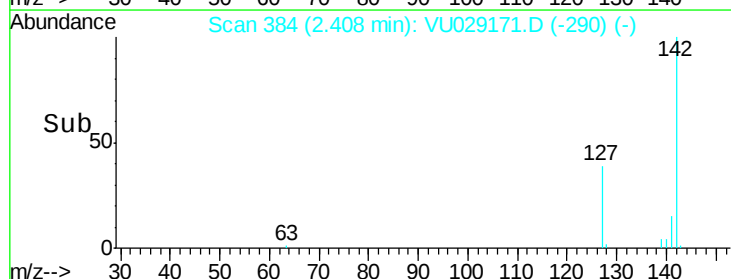
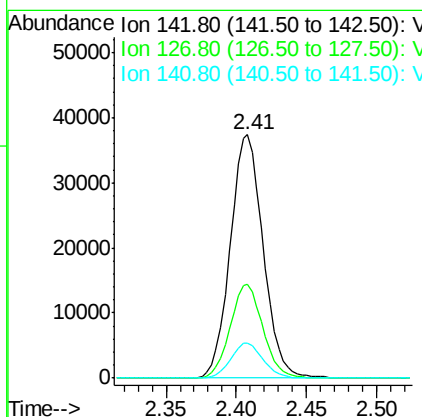
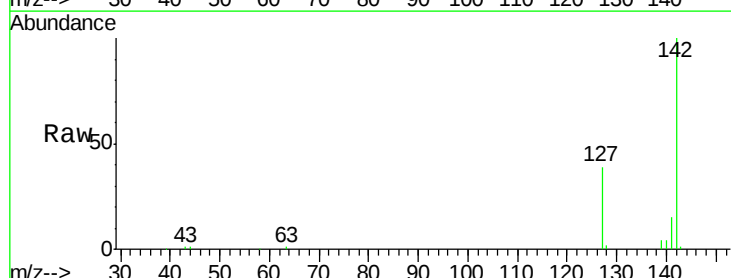
RT: 2.41 min Scan# 384

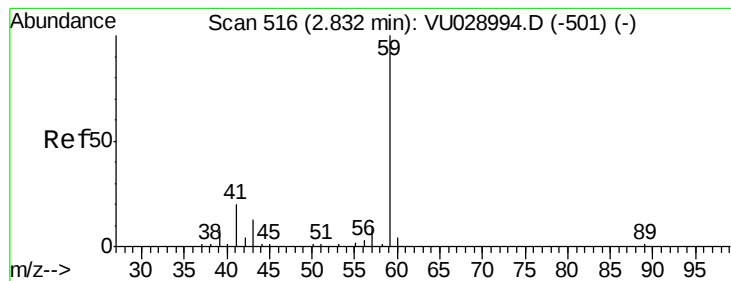
Delta R.T. 0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tgt Ion:	142	Resp:	61044
Ion Ratio	Lower	Upper	
142	100		
127	38.2	29.8	44.6
141	13.9	11.5	17.3





#11

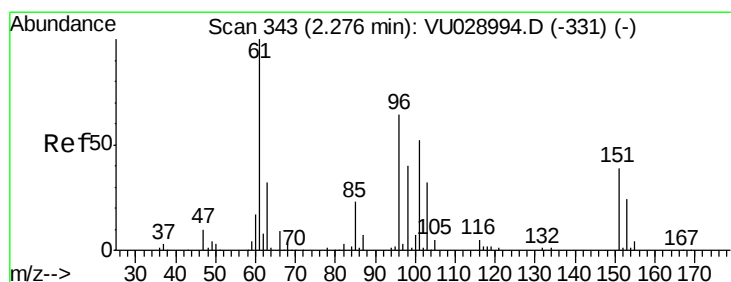
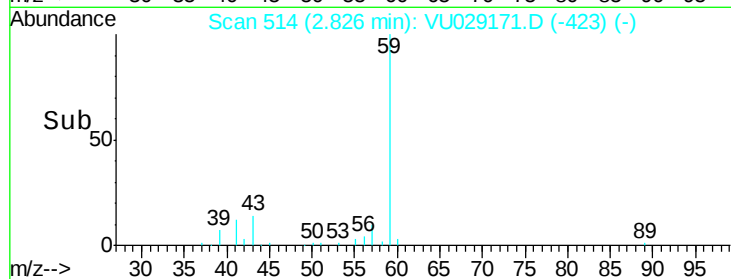
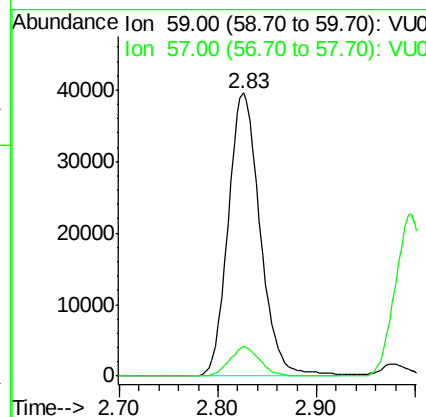
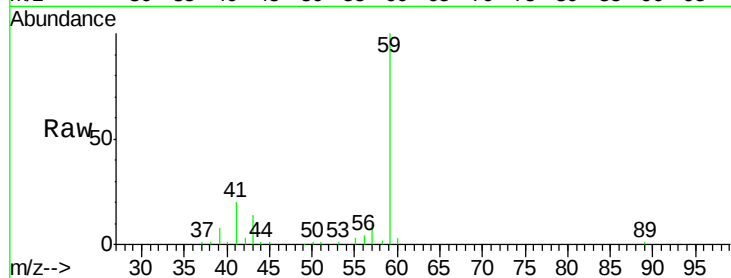
Tert butyl alcohol
 Concen: 239.478 ug/l
 RT: 2.83 min Scan# 514
 Delta R.T. -0.01 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.9	11.9

Manual Integrations
 APPROVED

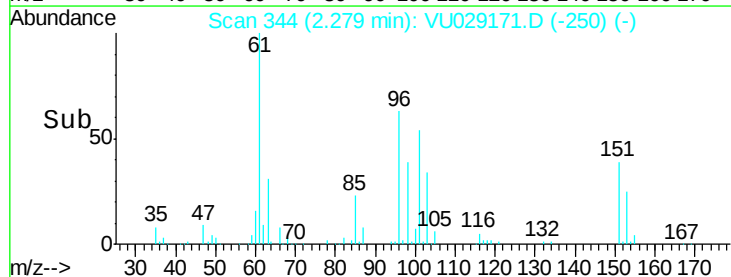
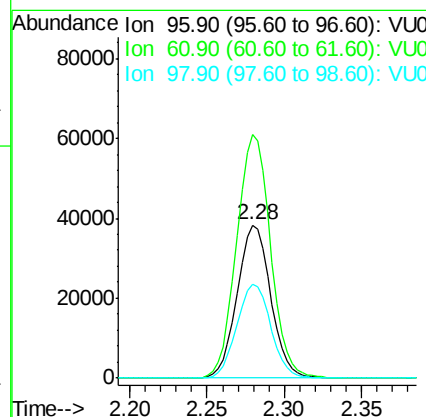
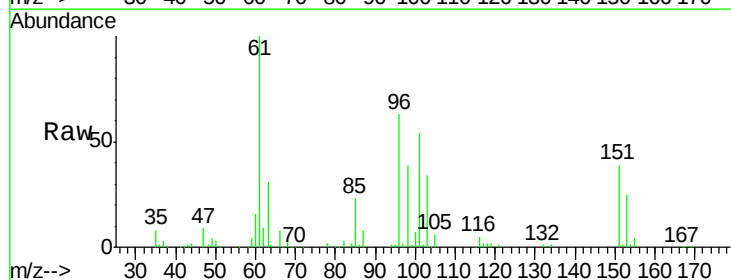
MMDadoda
 1/16/2019 9:41:49 AM

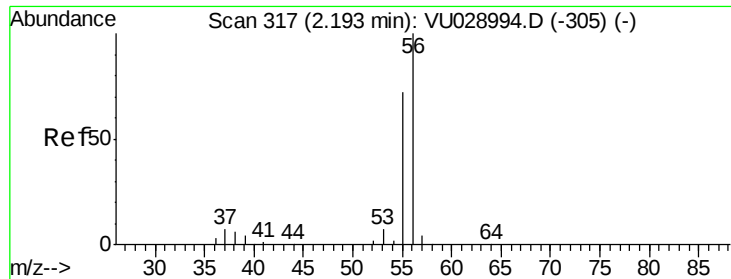


#12

1,1-Dichloroethene
 Concen: 46.638 ug/l
 RT: 2.28 min Scan# 344
 Delta R.T. 0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.0	125.4	188.0
98	61.6	49.7	74.5





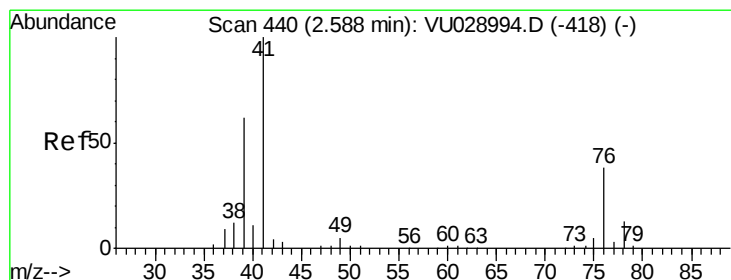
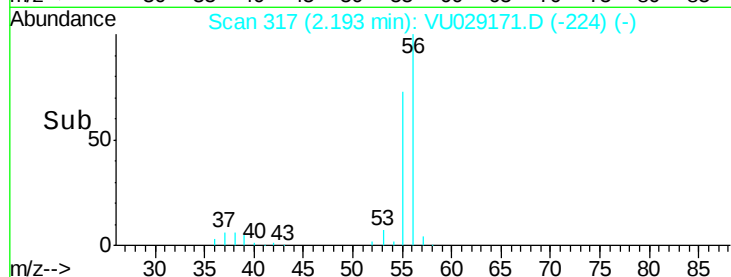
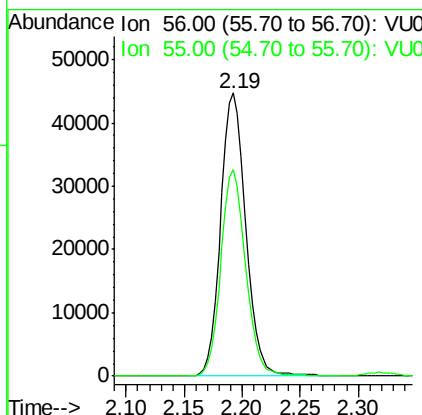
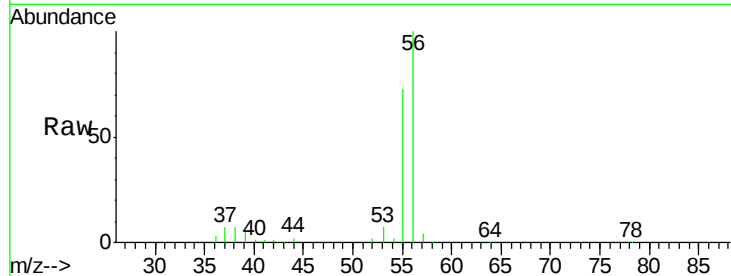
#13
Acrolein
Concen: 238.959 ug/l
RT: 2.19 min Scan# 317
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	72.2	56.5	84.7

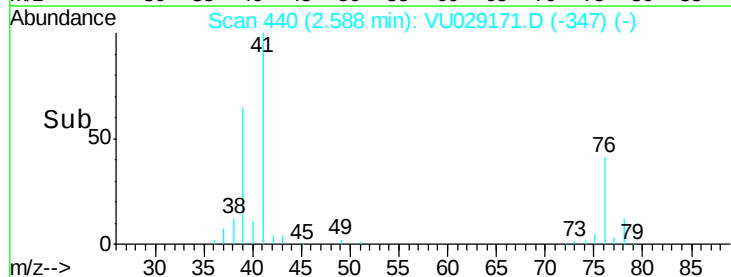
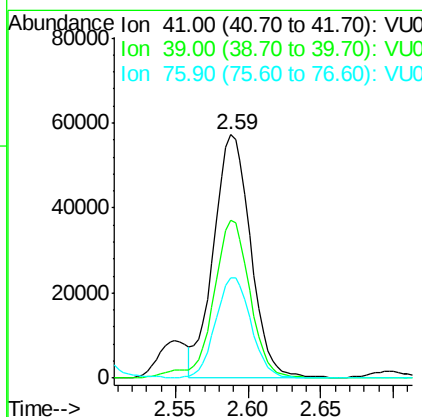
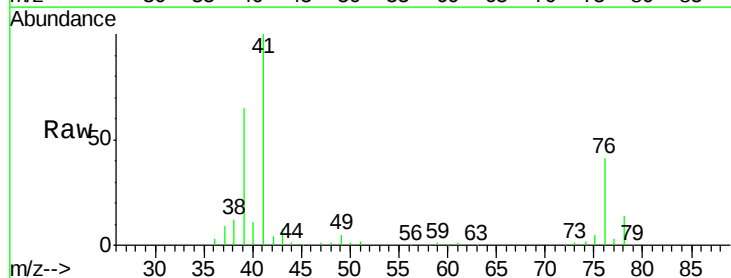
Manual Integrations
APPROVED

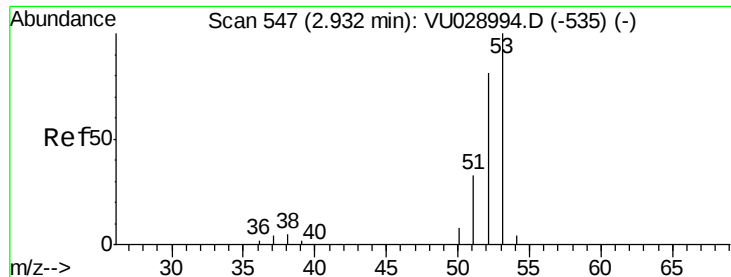
MMDadoda
1/16/2019 9:41:49 AM



#14
Allyl chloride
Concen: 44.536 ug/l
RT: 2.59 min Scan# 440
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
41	100		
39	64.6	45.0	67.6
76	39.6	28.1	42.1





#15

Acrylonitrile

Concen: 253.464 ug/l

RT: 2.93 min Scan# 547

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

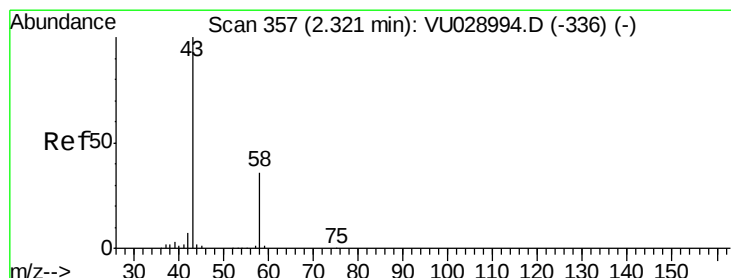
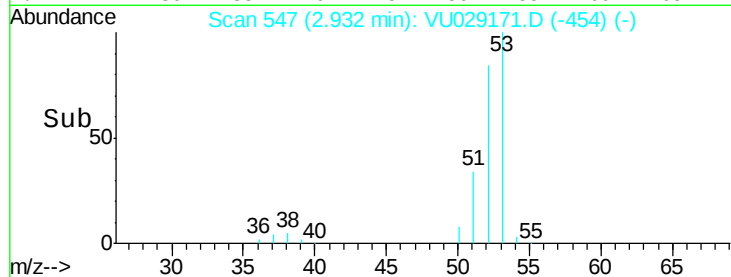
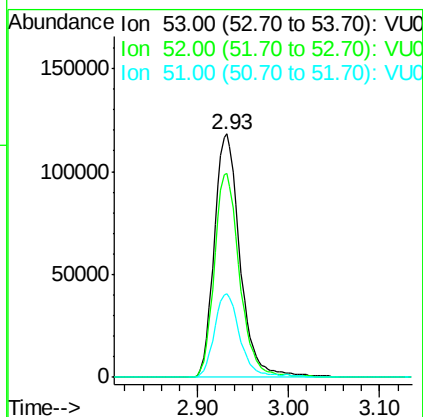
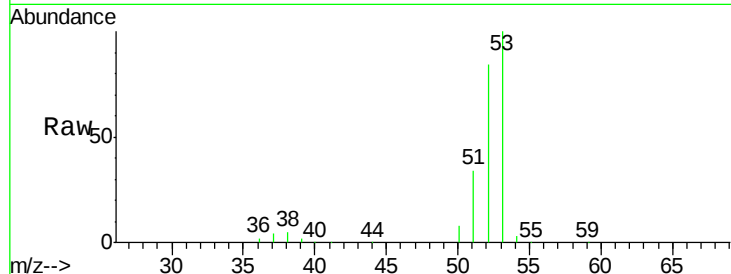
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	233197
Ion	Ratio	Lower	Upper
53	100		
52	82.0	64.8	97.2
51	33.9	27.3	40.9

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM



#16

Acetone

Concen: 287.614 ug/l

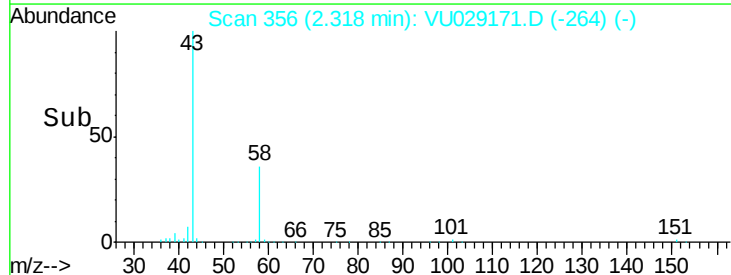
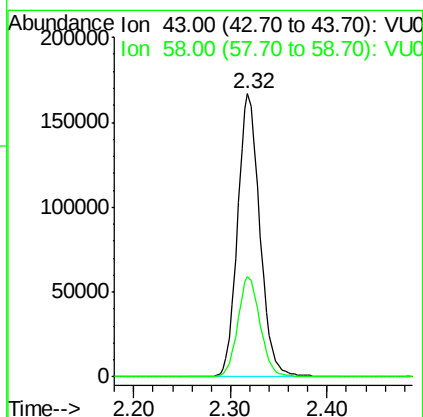
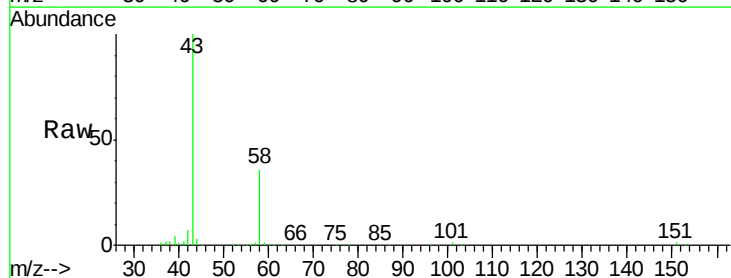
RT: 2.32 min Scan# 356

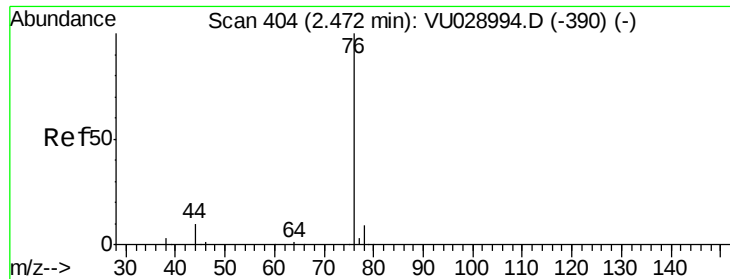
Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tgt Ion:	43	Resp:	267314
Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.6	42.8





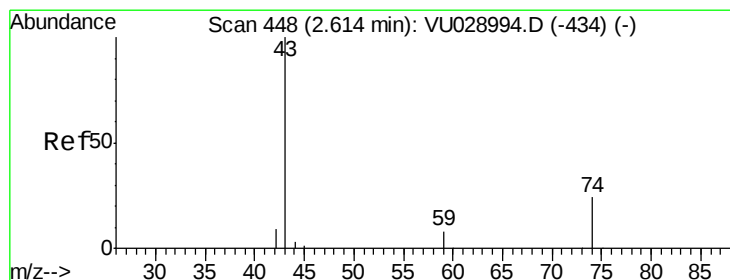
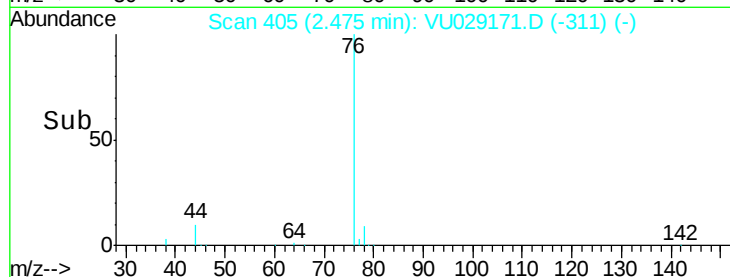
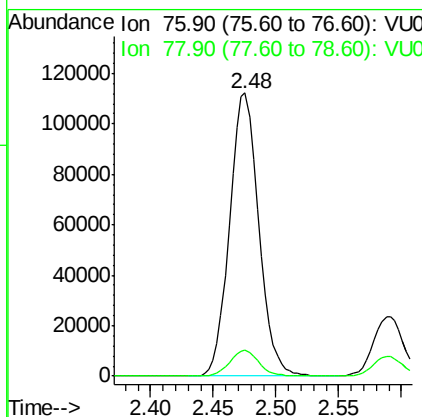
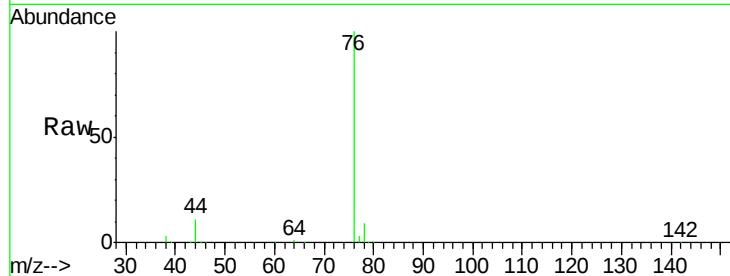
#17
Carbon Disulfide
Concen: 44.168 ug/l
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

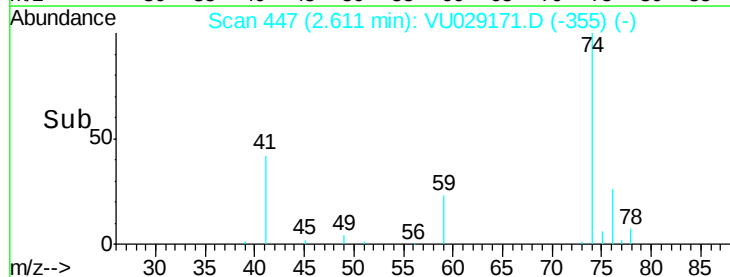
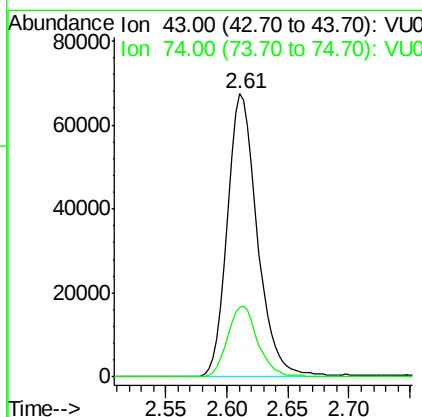
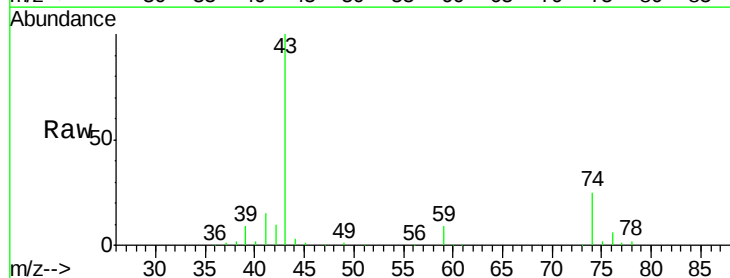
Manual Integrations
APPROVED

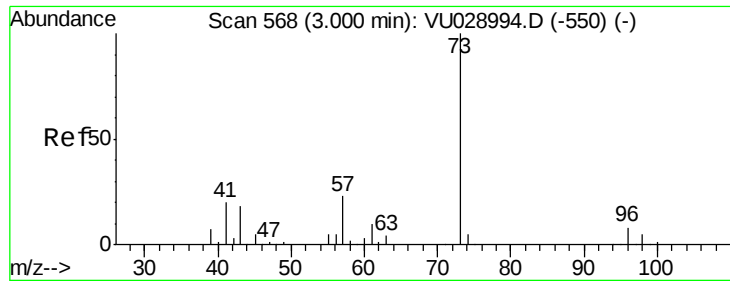
MMDadoda
1/16/2019 9:41:49 AM



#18
Methyl Acetate
Concen: 54.016 ug/l
RT: 2.61 min Scan# 447
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.4	19.5	29.3





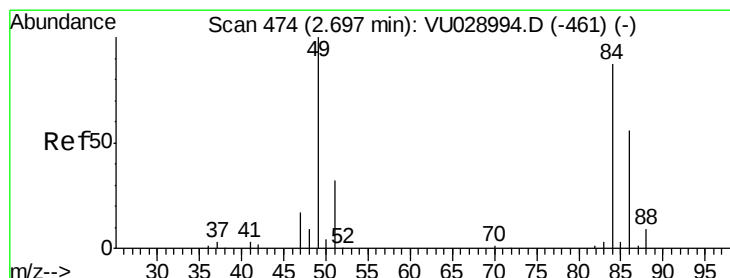
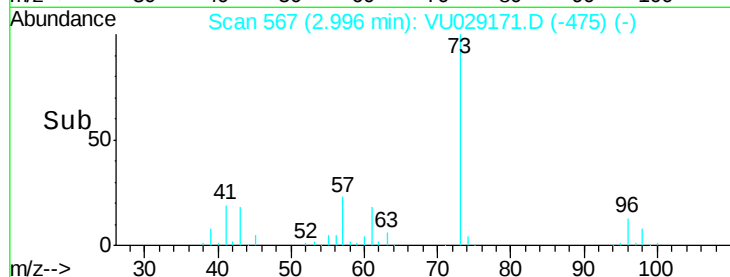
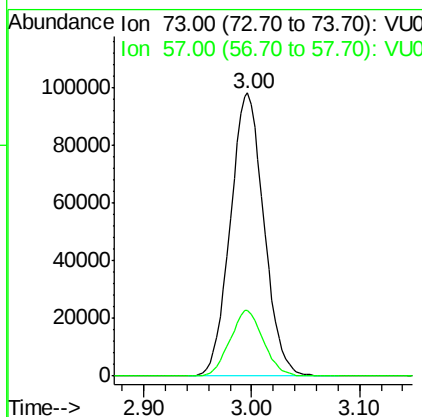
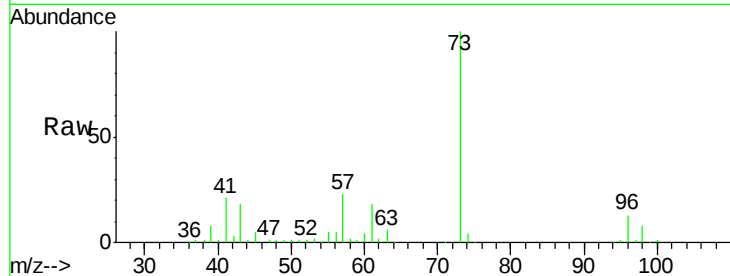
#19
Methvl tert-butvl Ether
Concen: 48.893 ug/l
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 212773
Ion Ratio Lower Upper
73 100
57 23.0 18.6 28.0

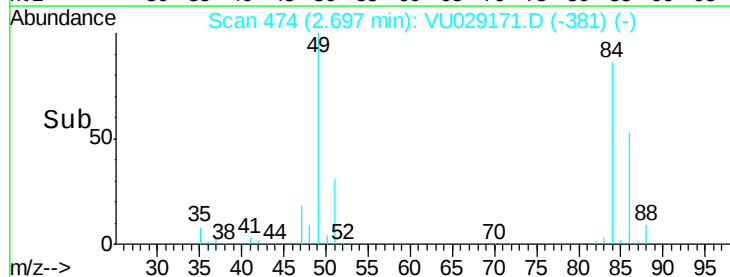
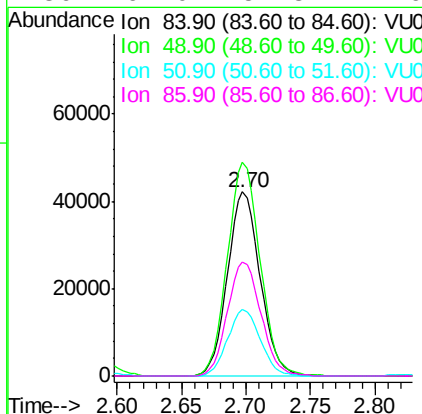
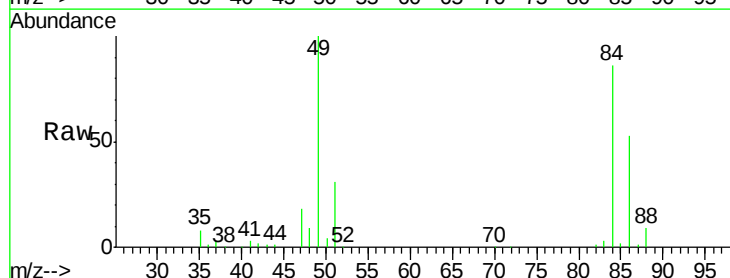
Manual Integrations
APPROVED

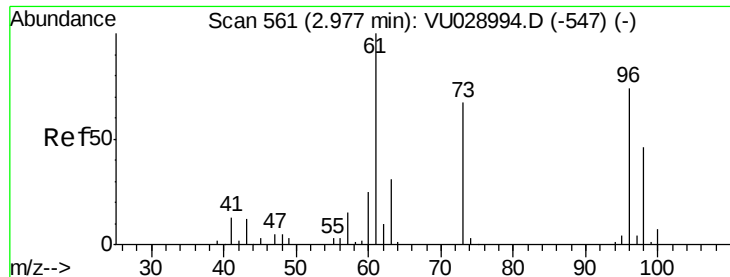
MMDadoda
1/16/2019 9:41:49 AM



#20
Methylene Chloride
Concen: 47.056 ug/l
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion: 84 Resp: 74255
Ion Ratio Lower Upper
84 100
49 116.0 91.9 137.9
51 36.0 29.2 43.8
86 62.0 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 46.637 ug/l

RT: 2.98 min Scan# 561

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 67069

Ion Ratio Lower Upper

96 100

61 136.3 107.7 161.5

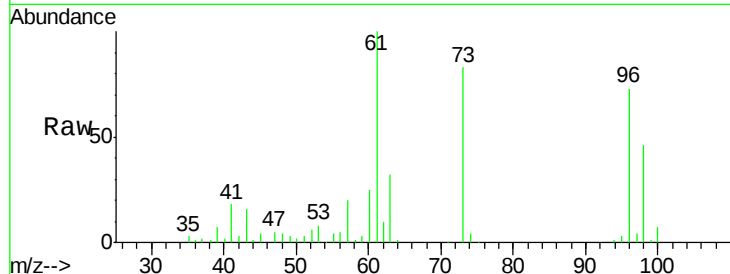
98 62.7 49.2 73.8

Manual Integrations

APPROVED

MMDadoda

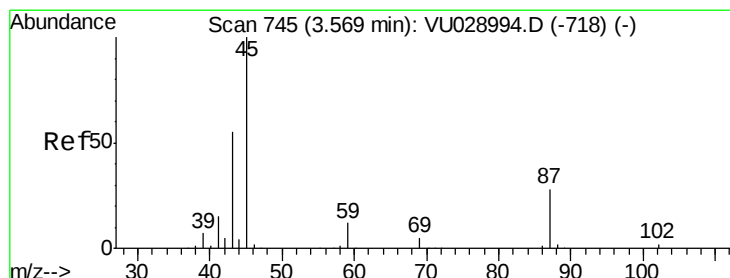
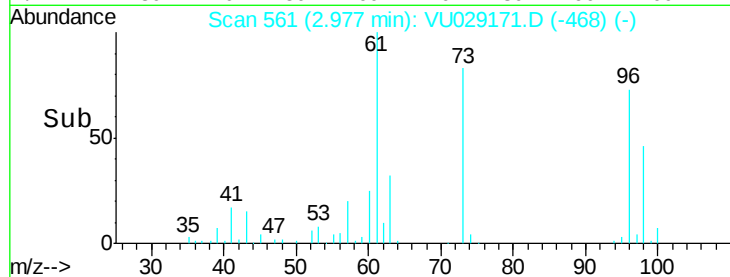
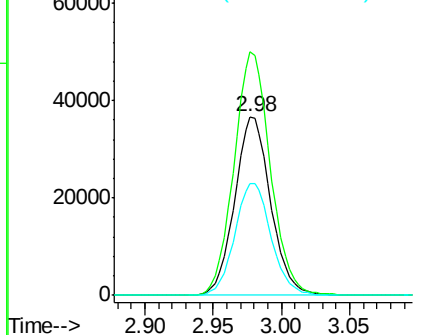
1/16/2019 9:41:49 AM



Abundance Ion 95.90 (95.60 to 96.60): VU029171.D (-468) (-)

Ion 60.90 (60.60 to 61.60): VU029171.D (-468) (-)

Ion 97.90 (97.60 to 98.60): VU029171.D (-468) (-)



#22

Diisopropyl ether

Concen: 49.889 ug/l

RT: 3.57 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tgt Ion: 45 Resp: 223932

Ion Ratio Lower Upper

45 100

43 56.0 44.7 67.1

87 27.4 22.2 33.2

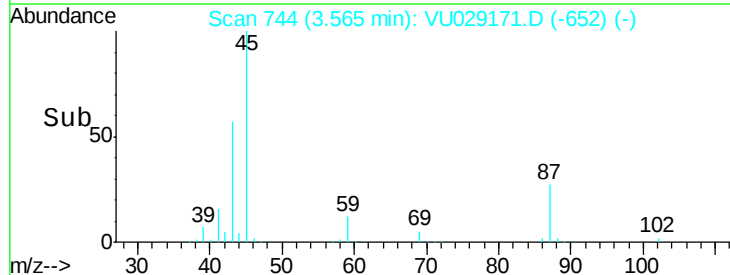
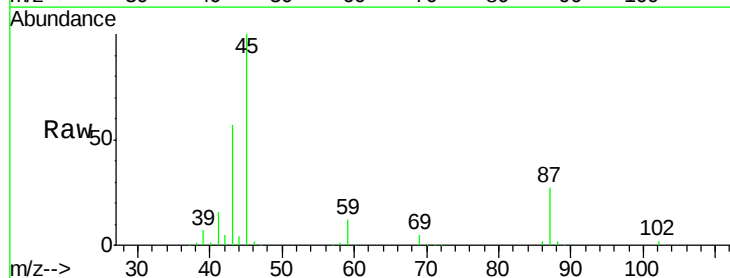
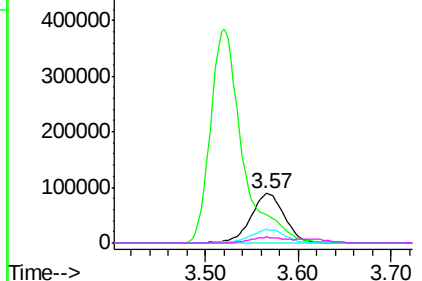
59 11.8 9.8 14.8

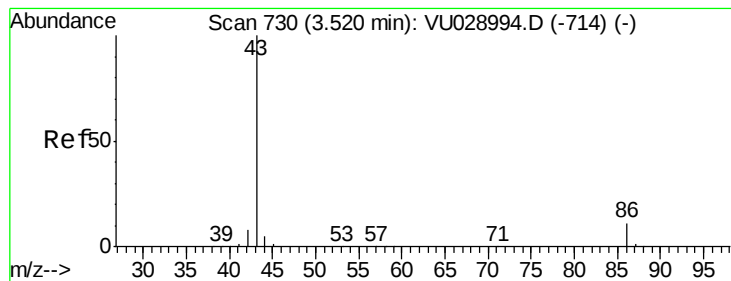
Abundance Ion 45.00 (44.70 to 45.70): VU029171.D (-652) (-)

Ion 43.00 (42.70 to 43.70): VU029171.D (-652) (-)

Ion 87.00 (86.70 to 87.70): VU029171.D (-652) (-)

Ion 59.00 (58.70 to 59.70): VU029171.D (-652) (-)





#23

Vinyl Acetate

Concen: 250.312 ug/l

RT: 3.52 min Scan# 730

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tot Ion: 43 Resp: 918517

Ion Ratio Lower Upper

43 100

86 10.9 8.6 13.0

Instrument :

MSVOA_U

ClientSampleId :

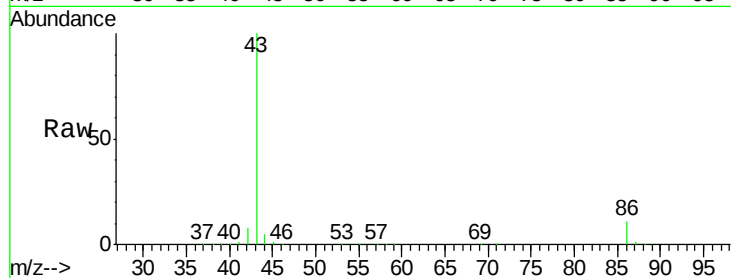
VSTDCCC050

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:41:49 AM



Abundance Ion 43.00 (42.70 to 43.70): VU029171.D (-637) (-)

Ion 86.00 (85.70 to 86.70): VU029171.D (-637) (-)

3.52

400000

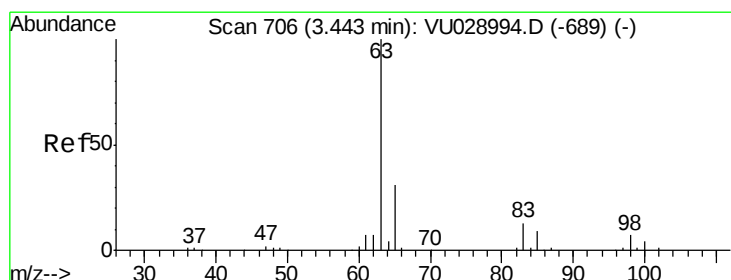
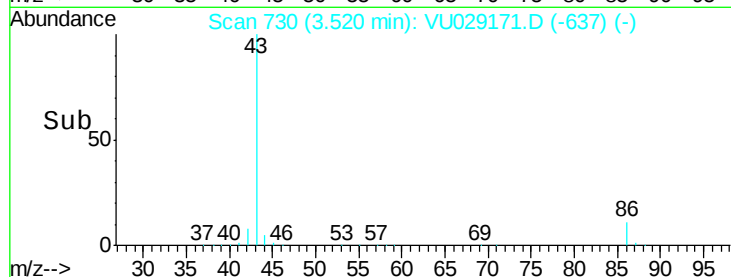
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 50.247 ug/l

RT: 3.44 min Scan# 705

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

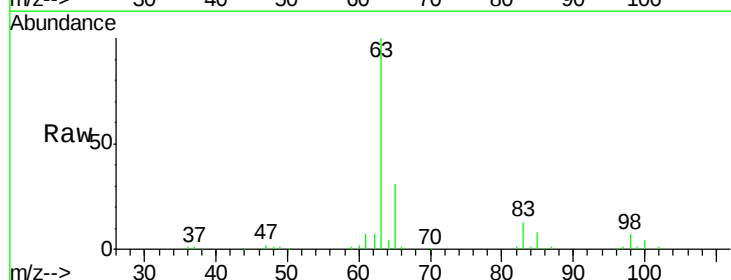
Tgt Ion: 63 Resp: 130199

Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.1

100 4.2 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VU029171.D (-613) (-)

Ion 97.90 (97.60 to 98.60): VU029171.D (-613) (-)

Ion 99.90 (99.60 to 100.60): VU029171.D (-613) (-)

3.44

80000

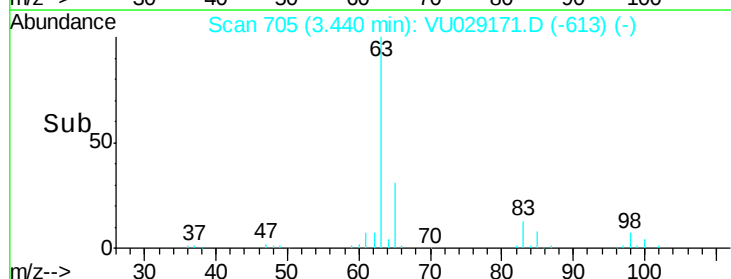
60000

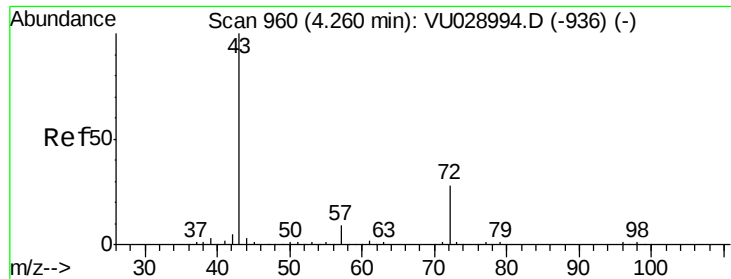
40000

20000

0

Time-->





#25

2-Butanone

Concen: 274.829 ug/l

RT: 4.25 min Scan# 958

Delta R.T. -0.01 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 344998

Ion Ratio Lower Upper

43 100

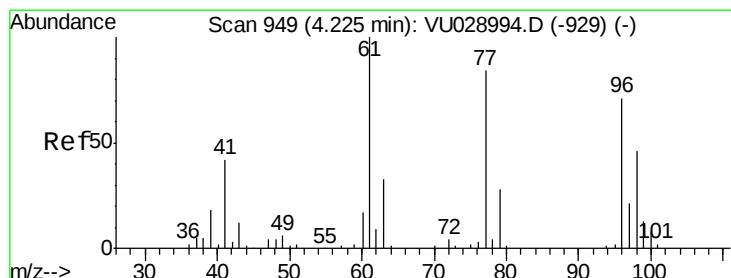
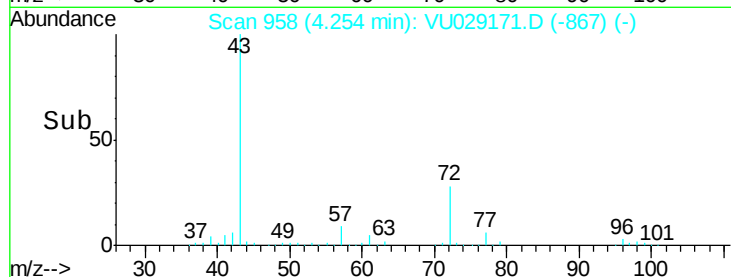
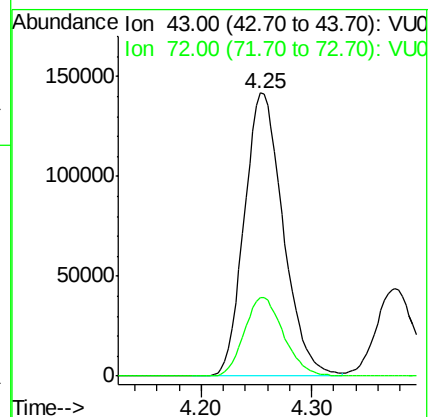
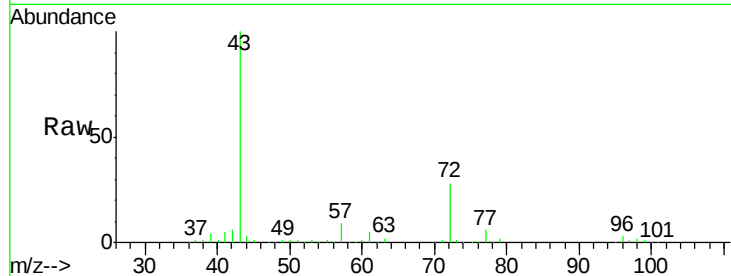
72 27.8 22.6 33.8

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:41:49 AM



#26

2,2-Dichloropropane

Concen: 51.035 ug/l

RT: 4.22 min Scan# 948

Delta R.T. -0.00 min

Lab File: VU029171.D

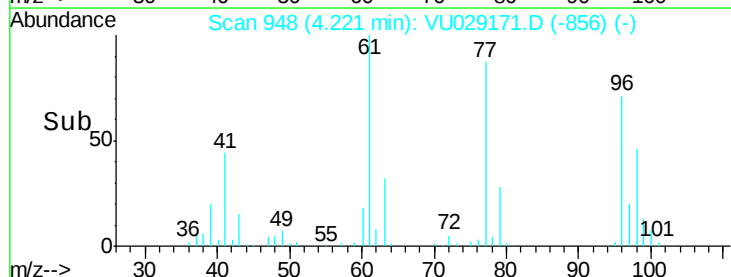
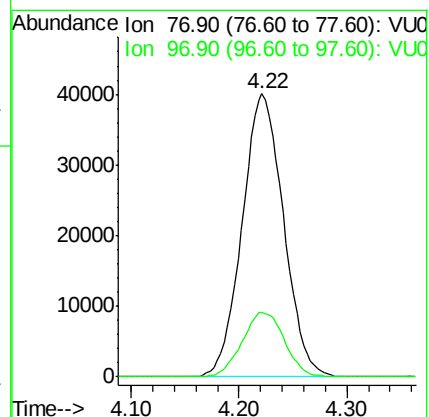
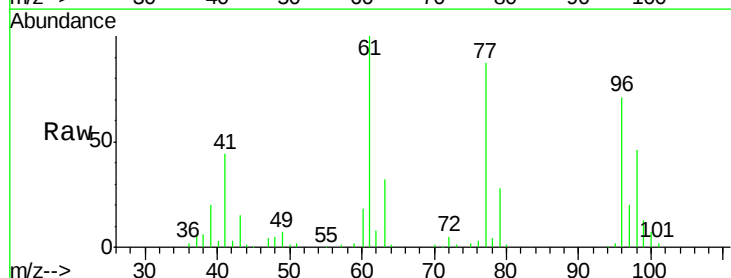
Acq: 15 Jan 2019 09:17

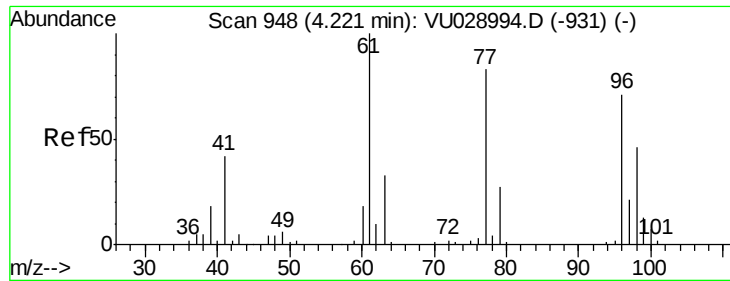
Tgt Ion: 77 Resp: 106854

Ion Ratio Lower Upper

77 100

97 23.4 12.0 36.1





#27

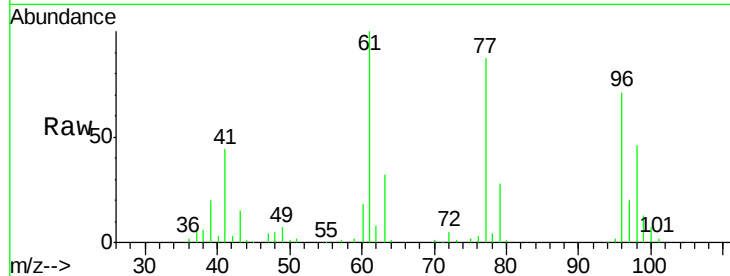
cis-1,2-Dichloroethene
Concen: 48.793 ug/l
RT: 4.22 min Scan# 948
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	146.6	0.0	285.6	
98	65.9	0.0	130.2	

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM

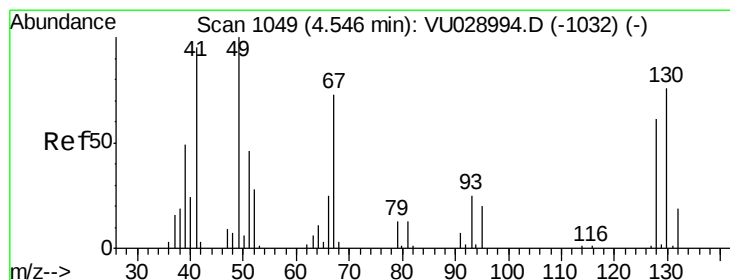
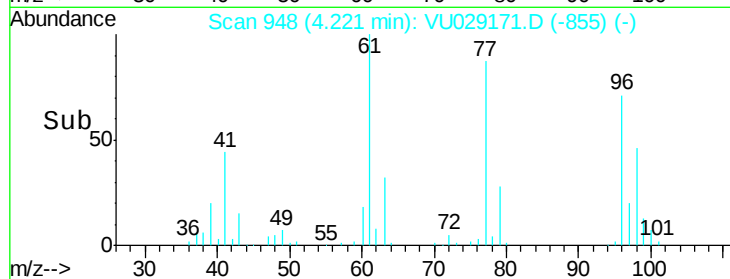
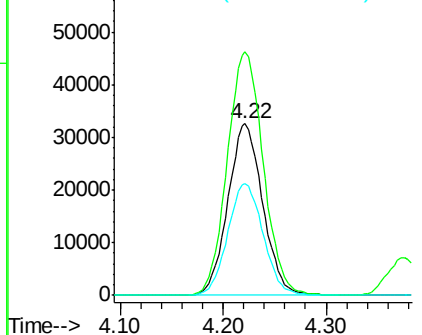


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

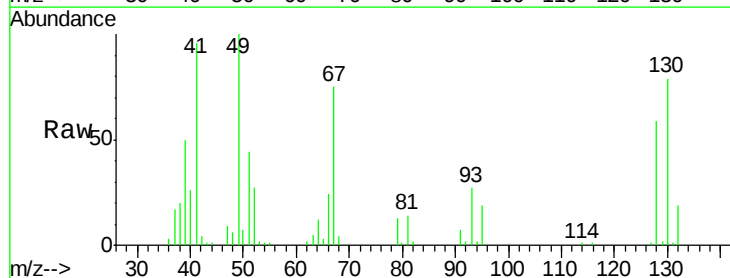
Ion 97.90 (97.60 to 98.60): VU0



#28

Bromochloromethane
Concen: 50.572 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.0	0.0	3.4	
130	78.9	62.9	94.3	

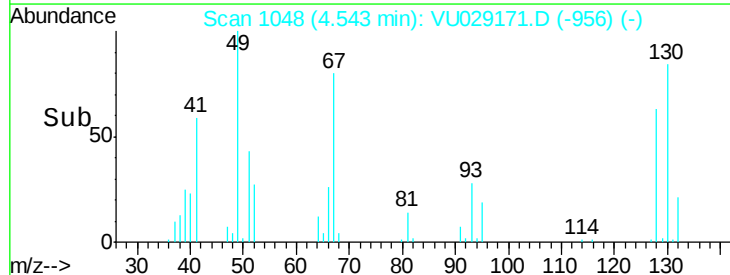
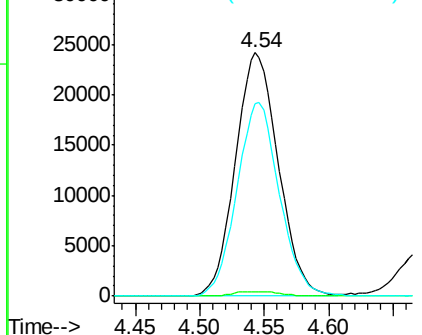


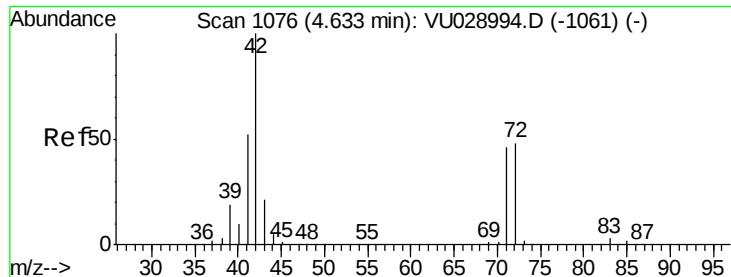
Abundance

Ion 48.90 (48.60 to 49.60): VU0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





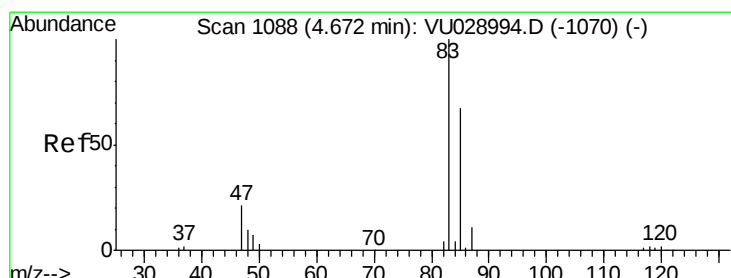
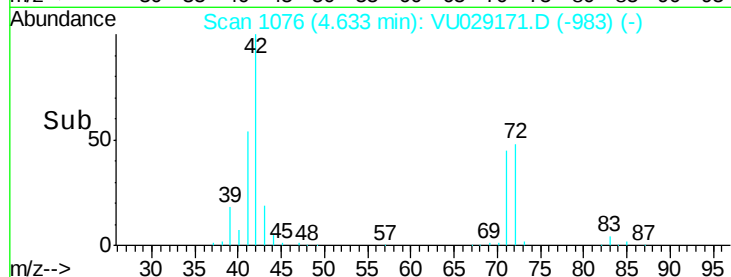
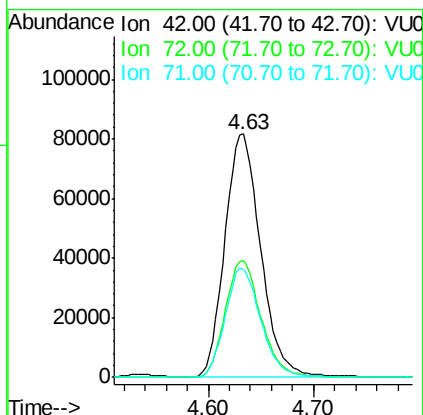
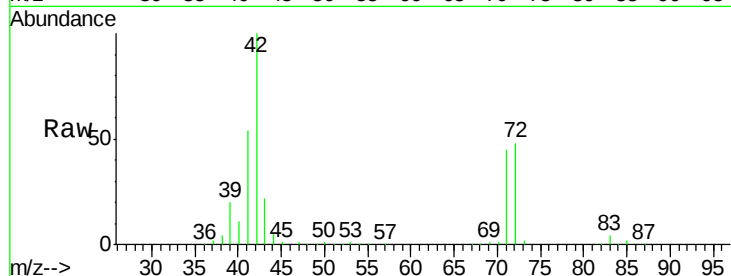
#29
Tetrahydrofuran
Concen: 251.653 ug/l
RT: 4.63 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.0	38.3	57.5
71	44.4	36.1	54.1

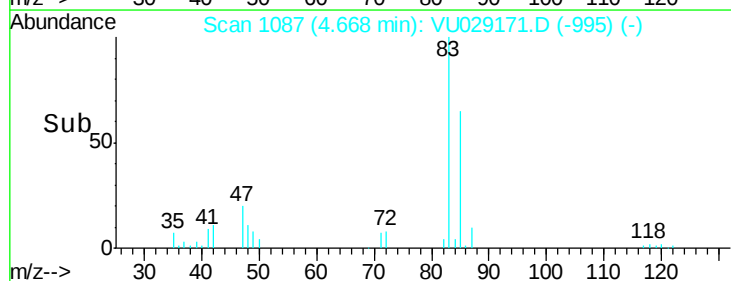
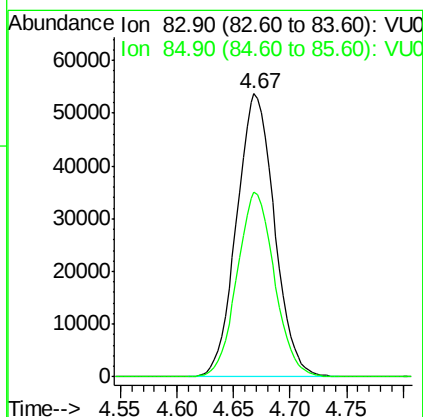
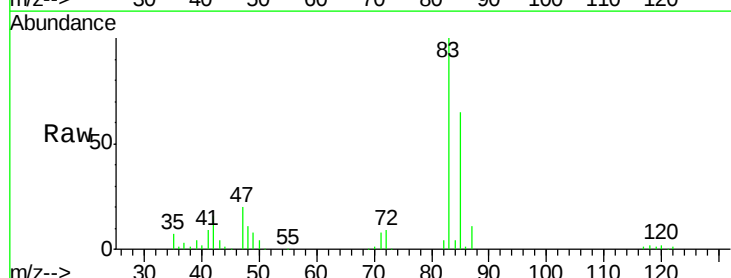
Manual Integrations
APPROVED

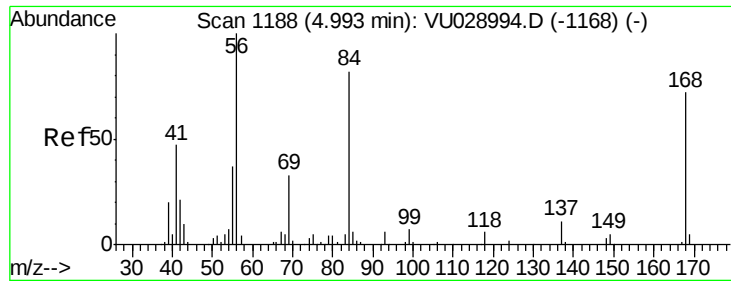
MMDadoda
1/16/2019 9:41:49 AM



#30
Chloroform
Concen: 50.714 ug/l
RT: 4.67 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	53.4	80.0





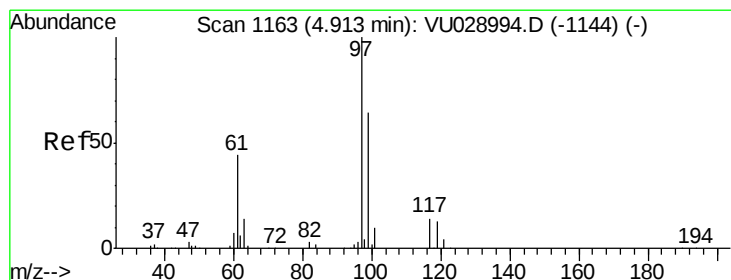
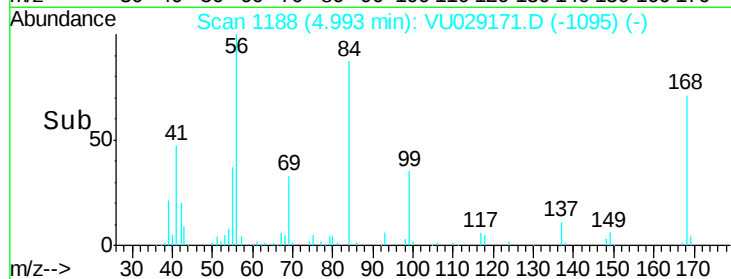
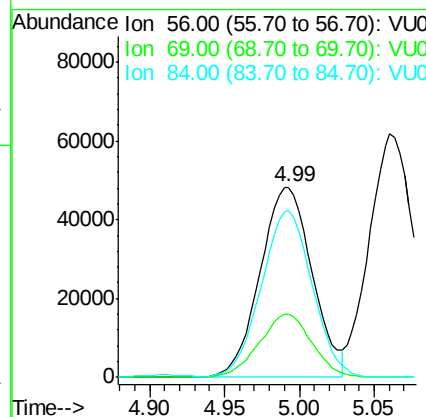
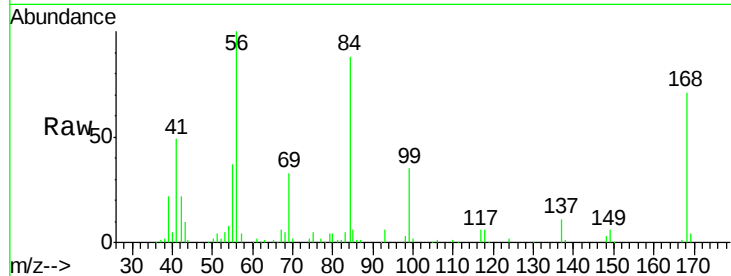
#31
Cyclohexane
Concen: 47.678 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.4	26.7	40.1
84	87.1	65.7	98.5

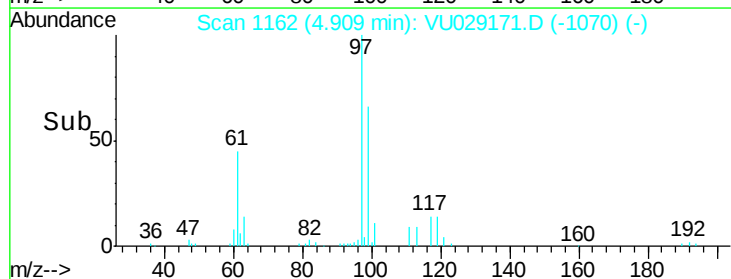
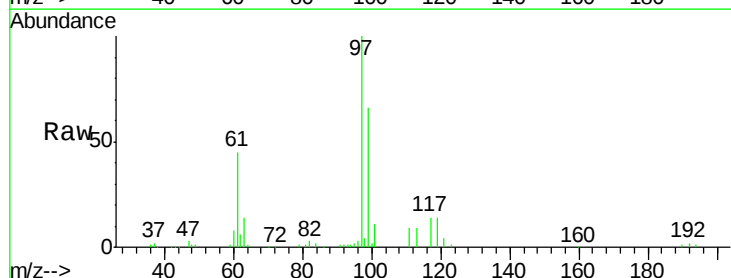
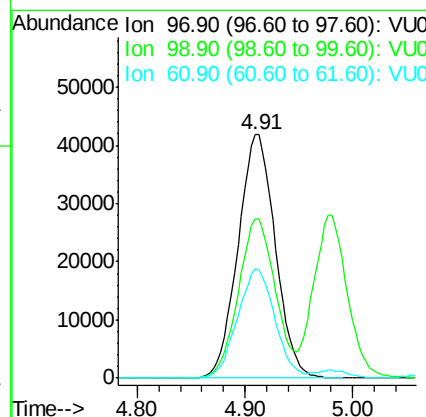
Manual Integrations
APPROVED

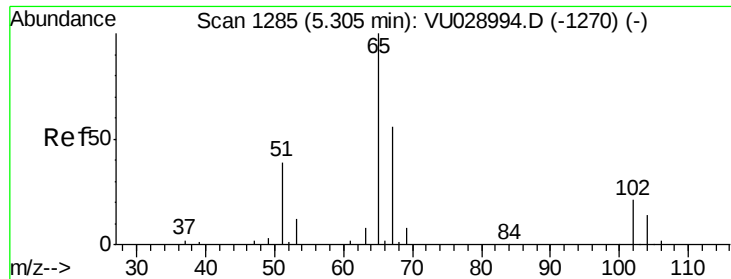
MMDadoda
1/16/2019 9:41:49 AM



#32
1,1,1-Trichloroethane
Concen: 49.318 ug/l
RT: 4.91 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.0	76.4
61	44.8	34.4	51.6





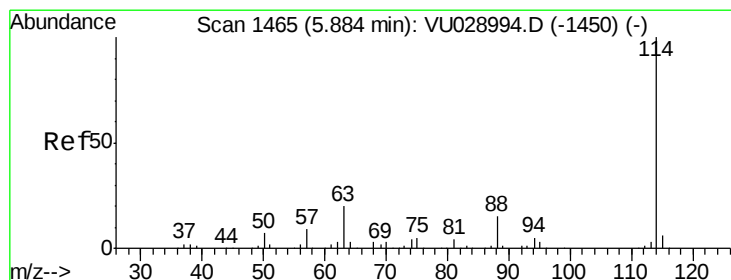
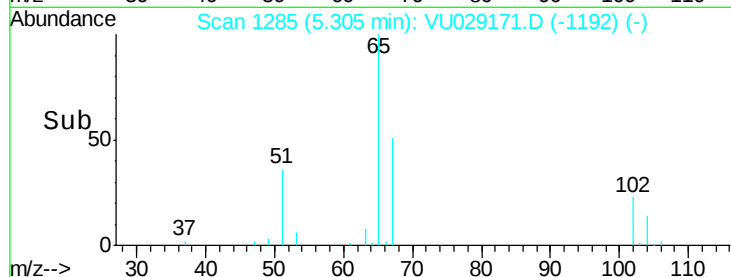
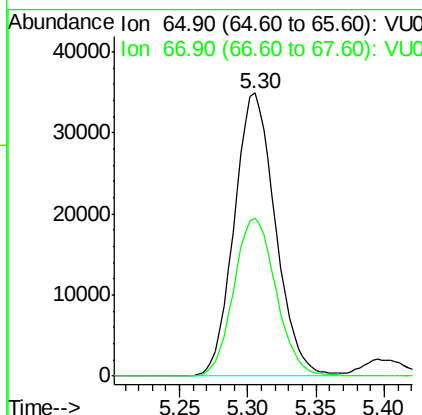
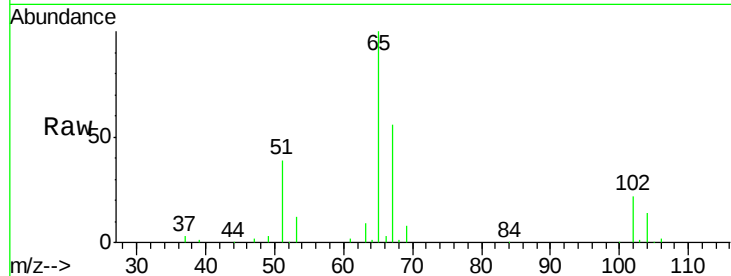
#33
 1,2-Dichloroethane-d4
 Concen: 49.687 ug/l
 RT: 5.30 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion: 65 Resp: 73307
 Ion Ratio Lower Upper
 65 100
 67 57.0 0.0 111.0

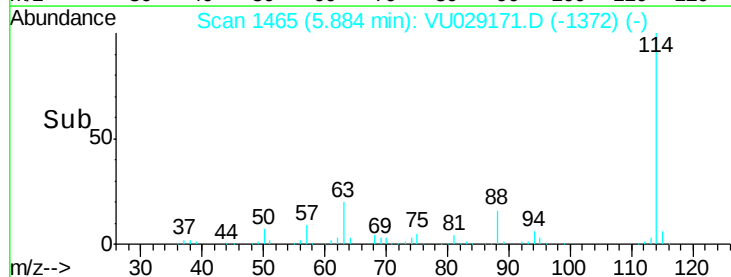
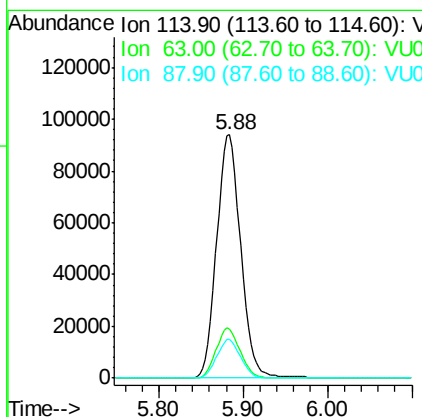
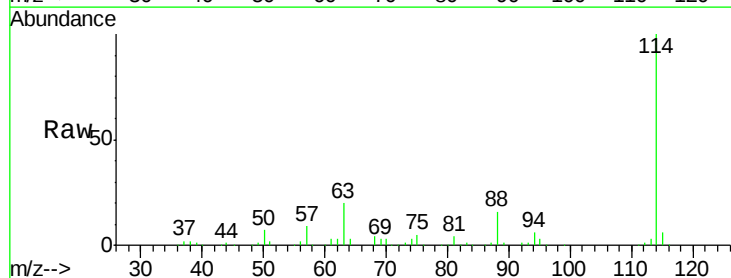
Manual Integrations
 APPROVED

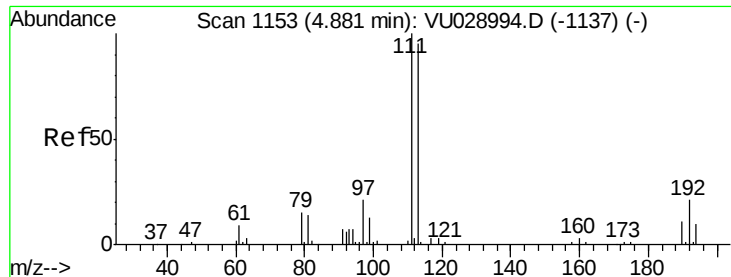
MMDadoda
 1/16/2019 9:41:49 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Tgt Ion: 114 Resp: 186740
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.2
 88 16.0 0.0 30.4





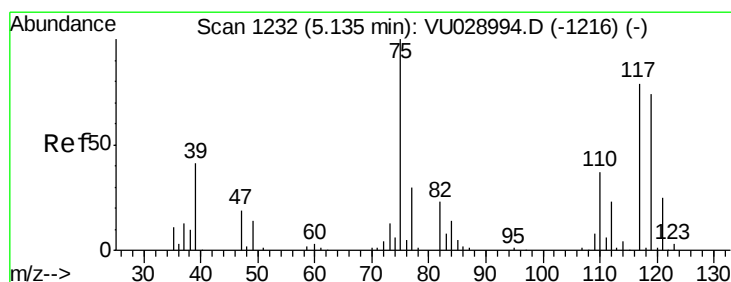
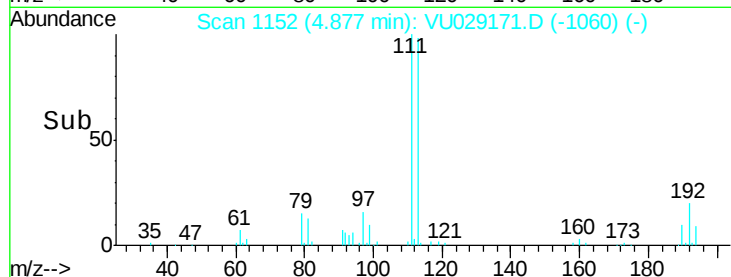
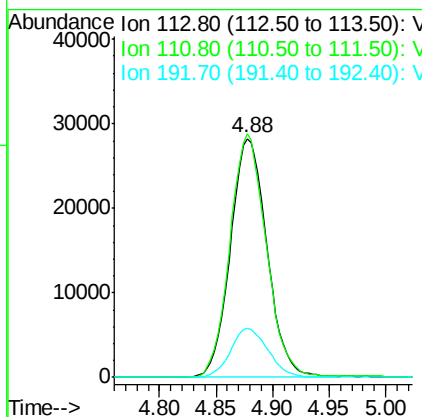
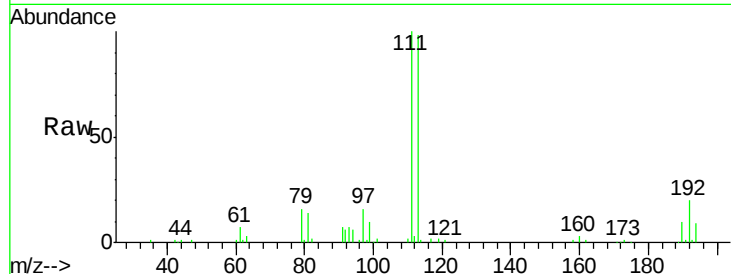
#35
 Dibromofluoromethane
 Concen: 52.591 ug/l
 RT: 4.88 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	63661		
111	101.2		81.4	122.2
192	20.8		16.8	25.2

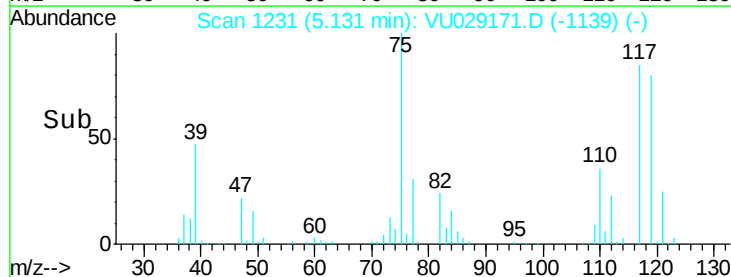
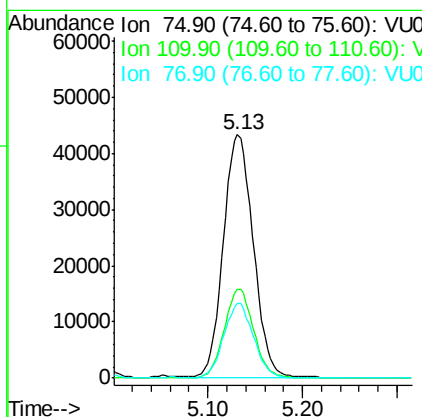
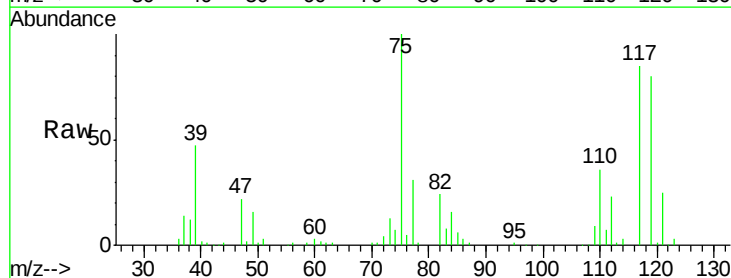
Manual Integrations
 APPROVED

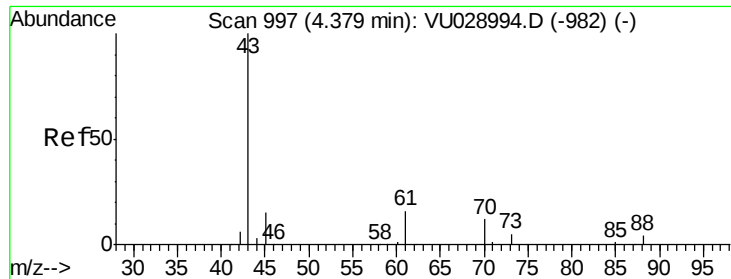
MMDadoda
 1/16/2019 9:41:49 AM



#36
 1,1-Dichloropropene
 Concen: 51.429 ug/l
 RT: 5.13 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	95995		
110	35.5		18.4	55.4
77	30.4		25.1	37.7





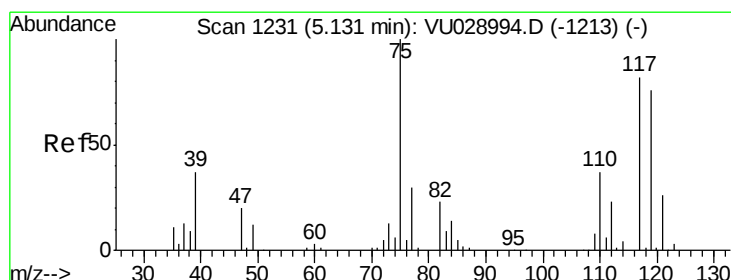
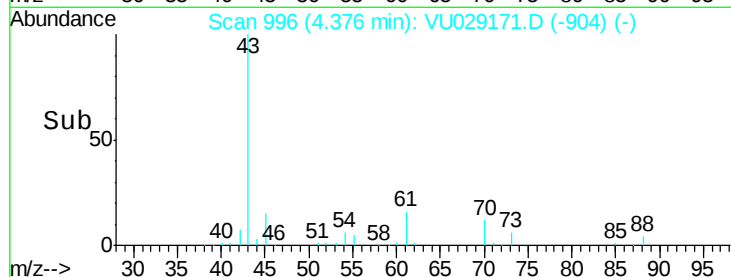
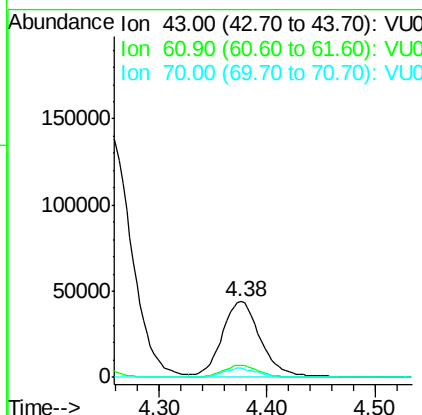
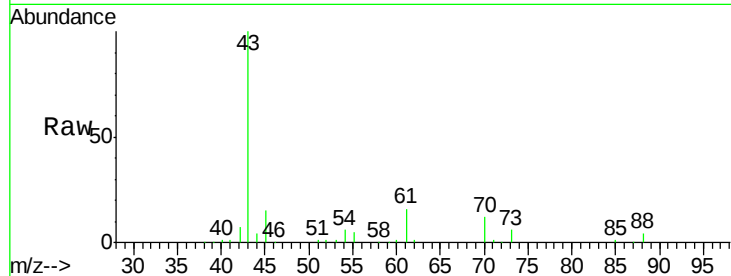
#37
Ethyl Acetate
Concen: 52.348 ug/l
RT: 4.38 min Scan# 996
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 107253
Ion Ratio Lower Upper
43 100
61 15.6 12.6 18.8
70 11.2 9.3 13.9

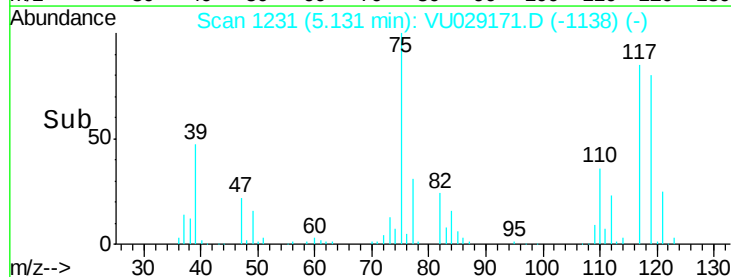
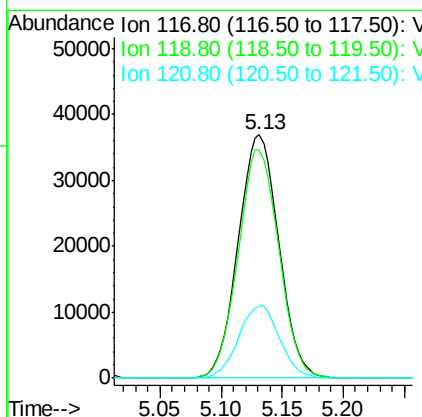
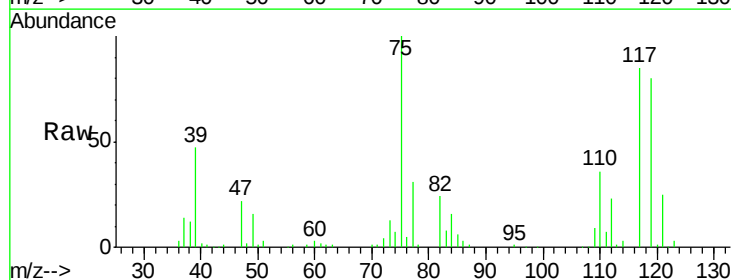
Manual Integrations
APPROVED

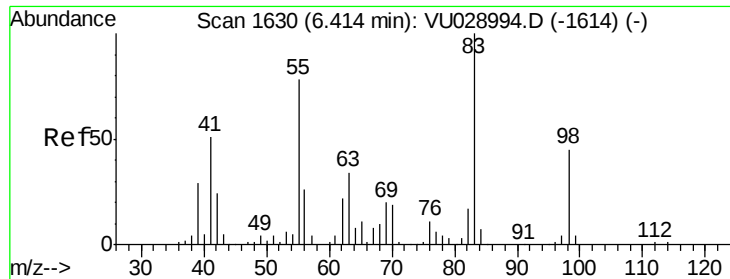
MMDadoda
1/16/2019 9:41:49 AM



#38
Carbon Tetrachloride
Concen: 54.634 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion: 117 Resp: 85054
Ion Ratio Lower Upper
117 100
119 93.9 74.6 111.8
121 29.8 25.0 37.6





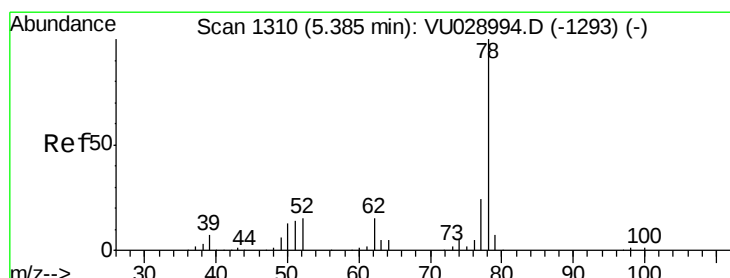
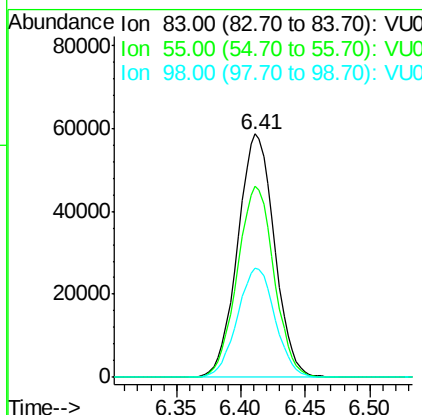
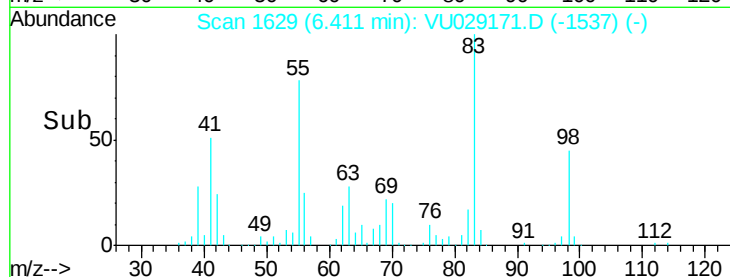
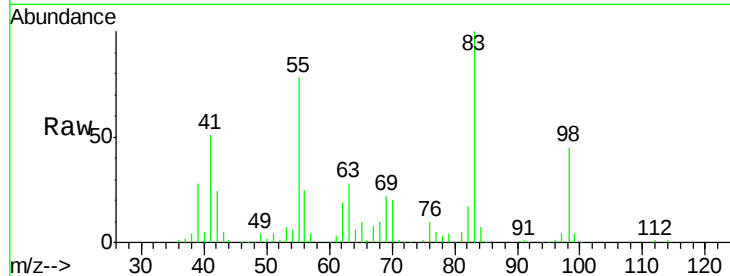
#39
Methvlcvclohexane
Concen: 50.735 ug/l
RT: 6.41 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	78.4	62.4	93.6	
98	44.8	36.2	54.2	

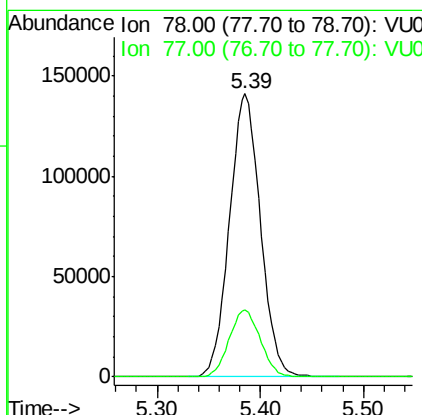
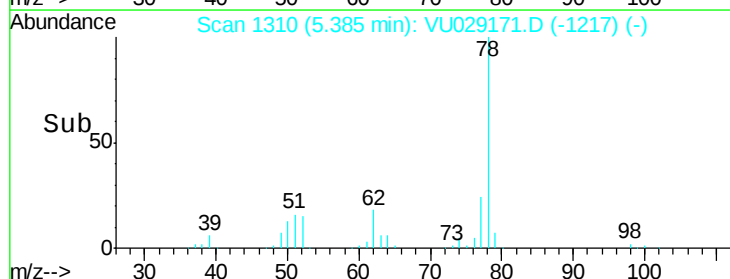
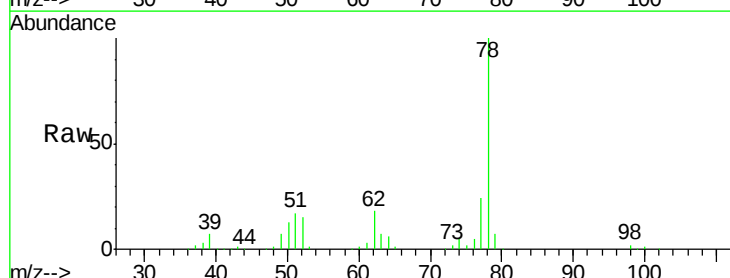
Manual Integrations
APPROVED

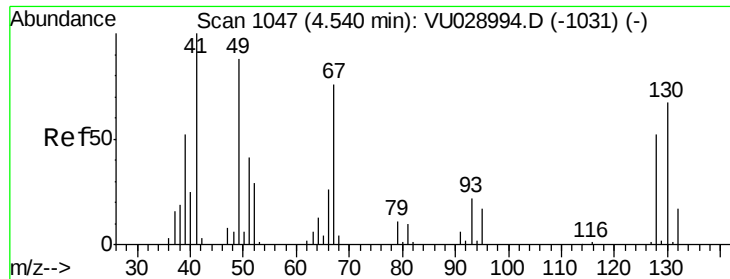
MMDadoda
1/16/2019 9:41:49 AM



#40
Benzene
Concen: 50.778 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.6	18.9	28.3	





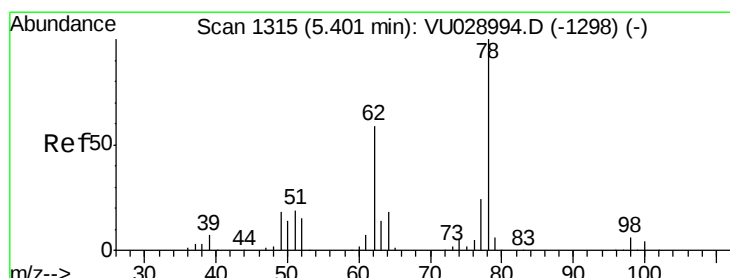
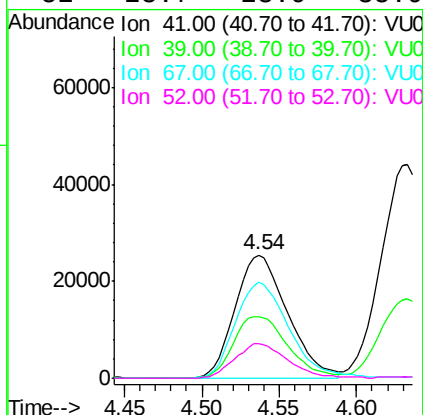
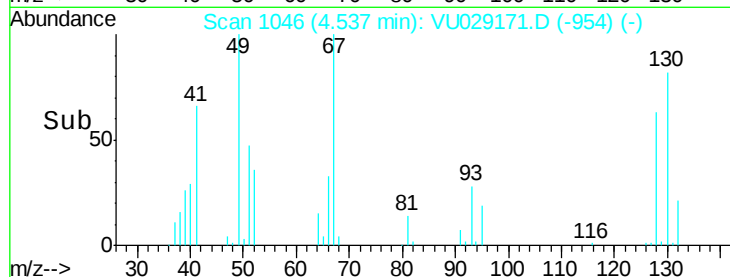
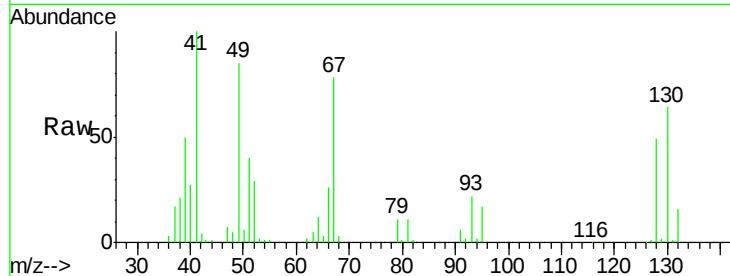
#41
Methacrylonitrile
Concen: 54.580 ug/l
RT: 4.54 min Scan# 1046
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.4	42.3	63.5	
67	80.3	64.4	96.6	
52	28.7	23.9	35.9	

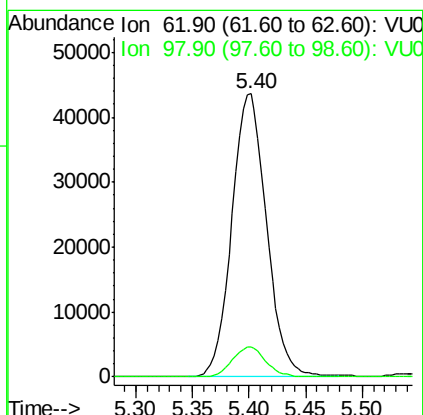
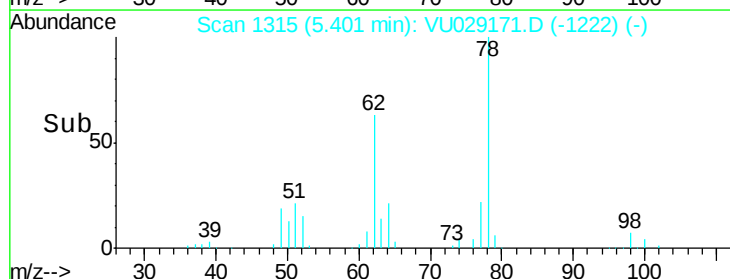
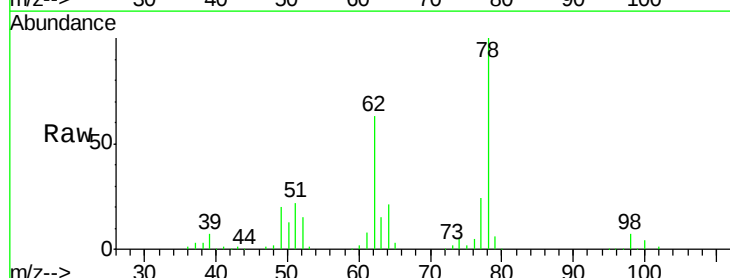
Manual Integrations
APPROVED

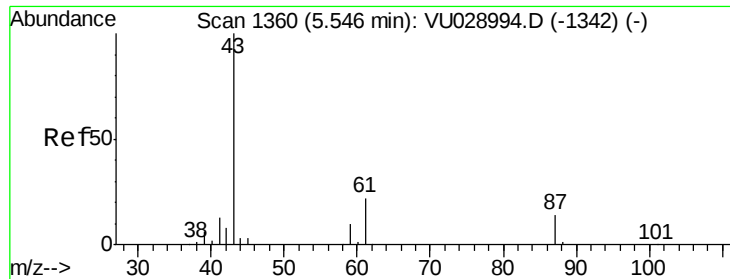
MMDadoda
1/16/2019 9:41:49 AM



#42
1,2-Dichloroethane
Concen: 53.327 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.2	0.0	19.6	





#43

Isopropyl Acetate

Concen: 53.597 ug/l

RT: 5.54 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

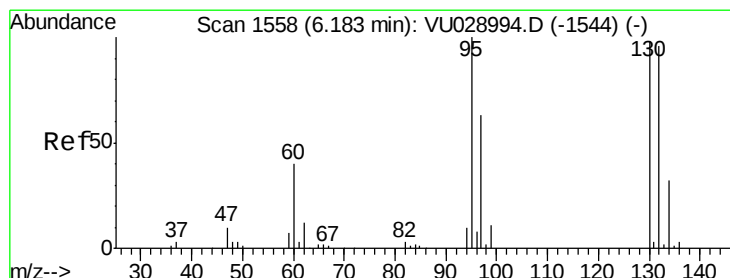
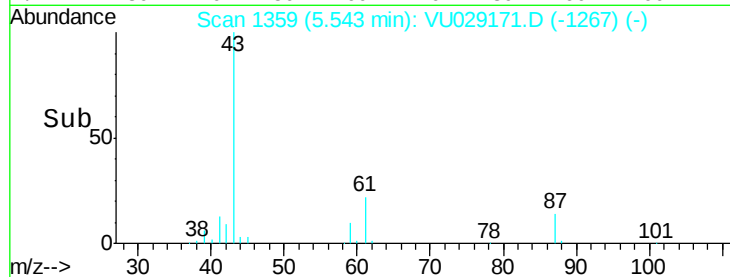
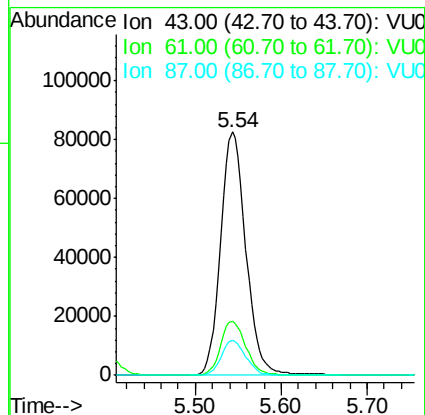
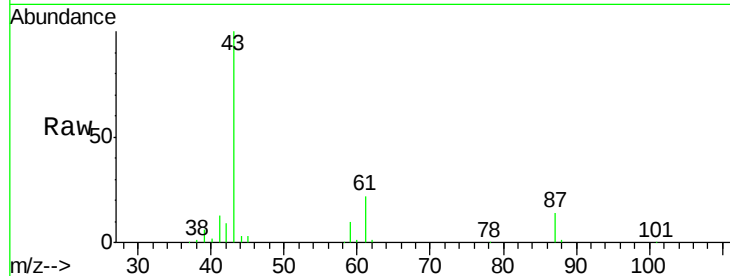
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	168451
Ion	Ratio	Lower	Upper
43	100		
61	22.3	17.8	26.6
87	13.9	11.3	16.9

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM



#44

Trichloroethene

Concen: 51.015 ug/l

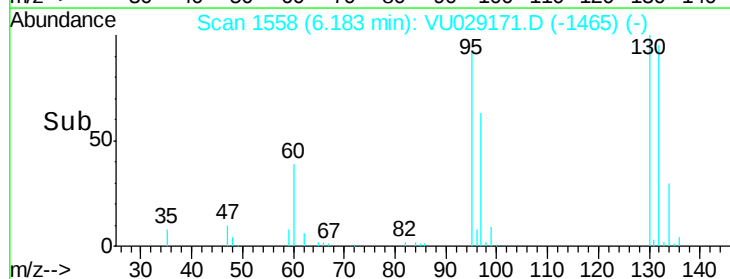
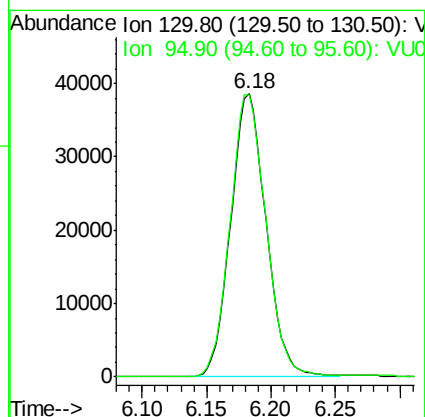
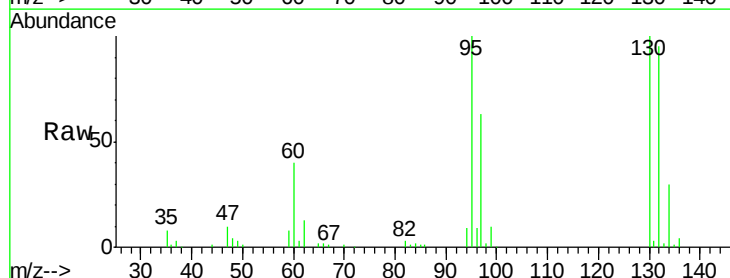
RT: 6.18 min Scan# 1558

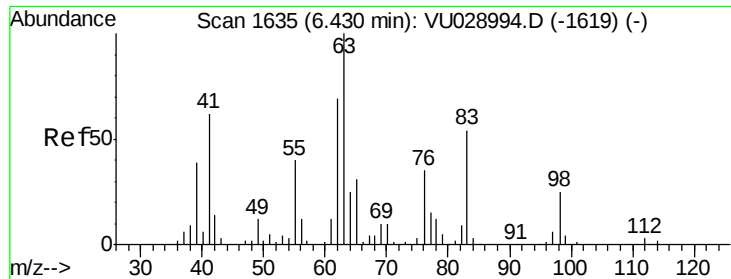
Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tgt Ion:	130	Resp:	73594
Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	205.0





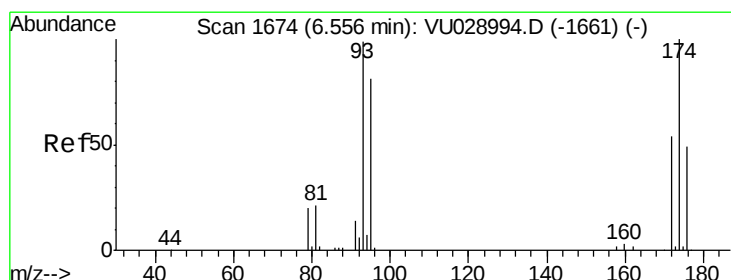
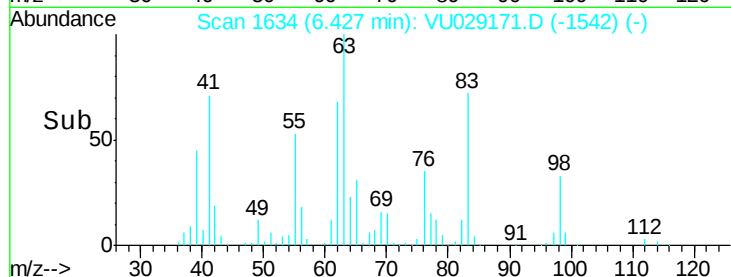
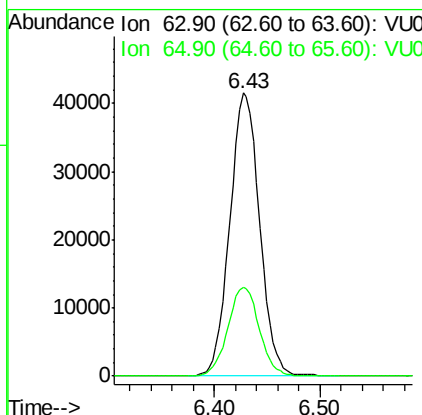
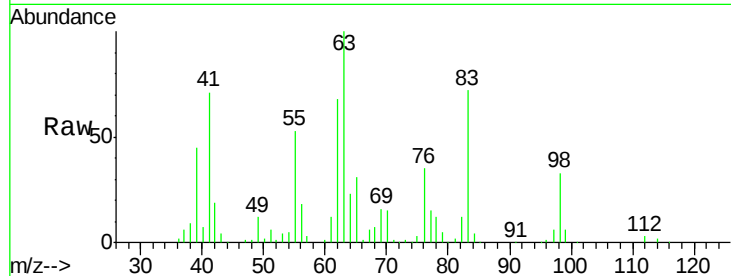
#45
1,2-Dichloropropane
Concen: 52.865 ug/l
RT: 6.43 min Scan# 1634
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 63 Resp: 81282
Ion Ratio Lower Upper
63 100
65 31.3 25.1 37.7

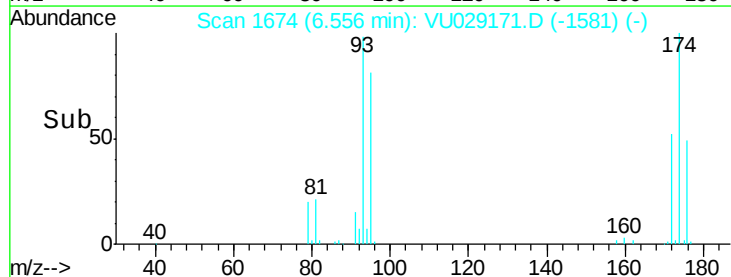
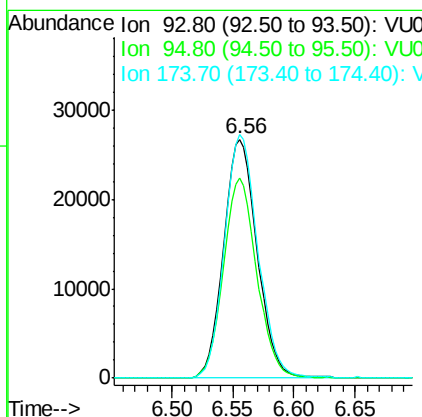
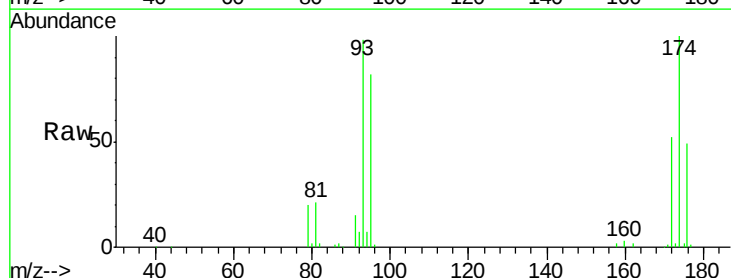
Manual Integrations
APPROVED

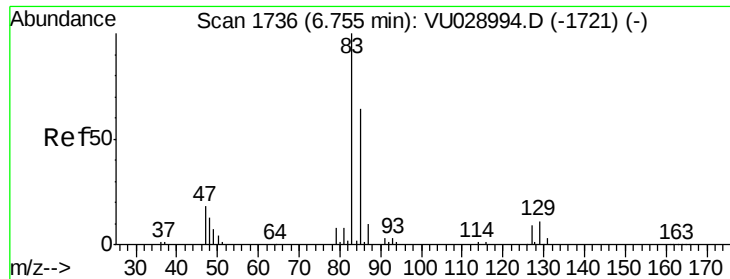
MMDadoda
1/16/2019 9:41:49 AM



#46
Dibromomethane
Concen: 52.315 ug/l
RT: 6.56 min Scan# 1674
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion: 93 Resp: 51420
Ion Ratio Lower Upper
93 100
95 83.2 67.2 100.8
174 101.9 82.6 123.8





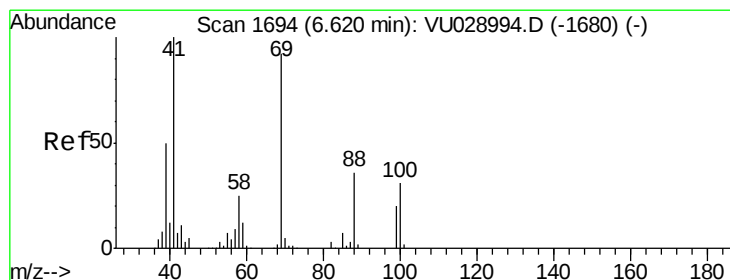
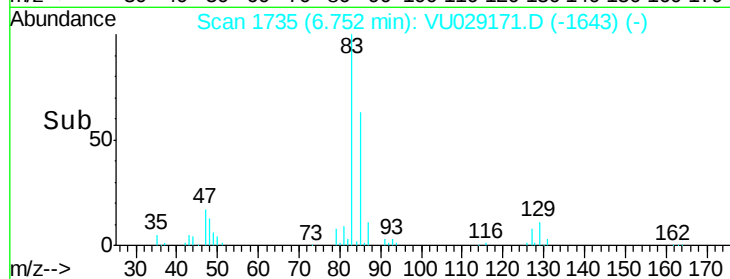
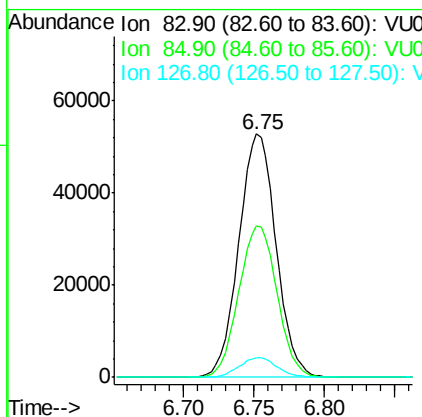
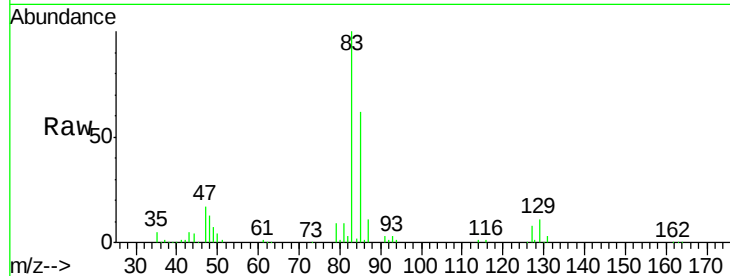
#47
Bromodichloromethane
Concen: 54.069 ug/l
RT: 6.75 min Scan# 1735
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	97848
Ion Ratio	100		
85	62.4	51.4	77.2
127	8.0	7.0	10.4

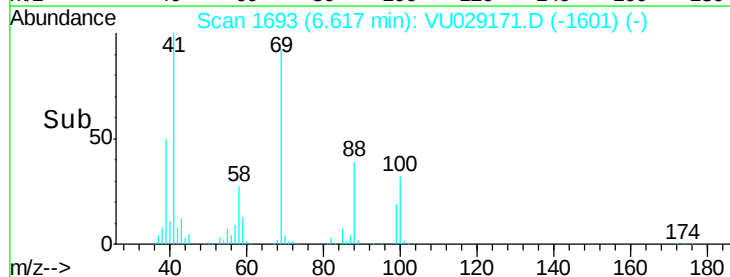
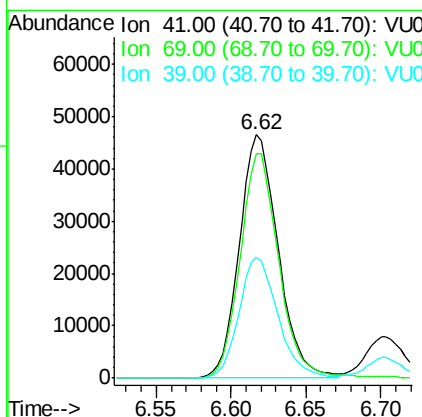
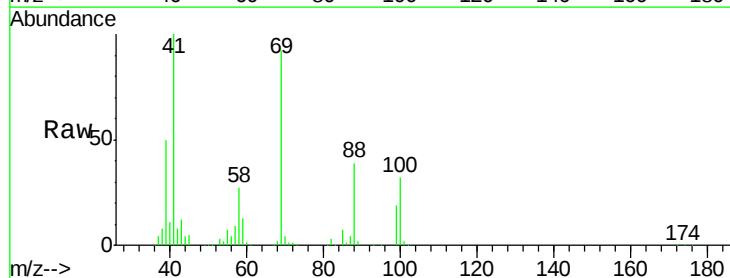
Manual Integrations
APPROVED

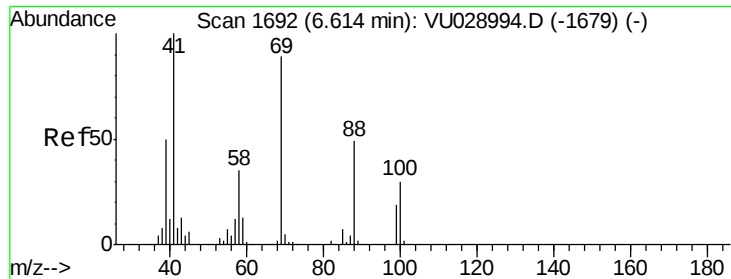
MMDadoda
1/16/2019 9:41:49 AM



#48
Methyl methacrylate
Concen: 55.081 ug/l
RT: 6.62 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	41	Resp	84294
Ion Ratio	100		
69	92.2	73.6	110.4
39	49.3	39.6	59.4





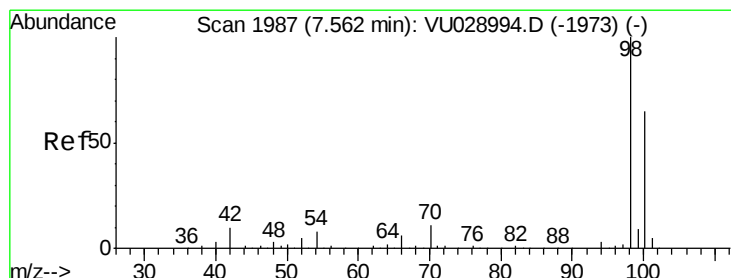
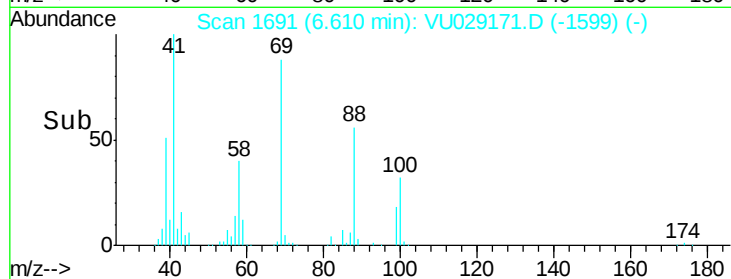
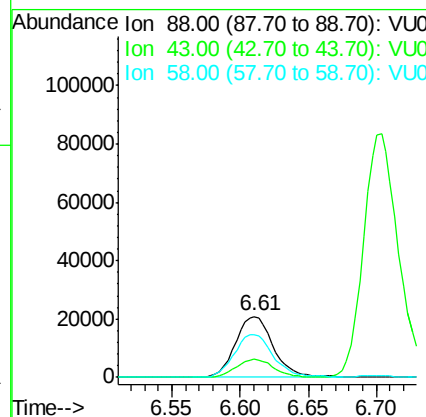
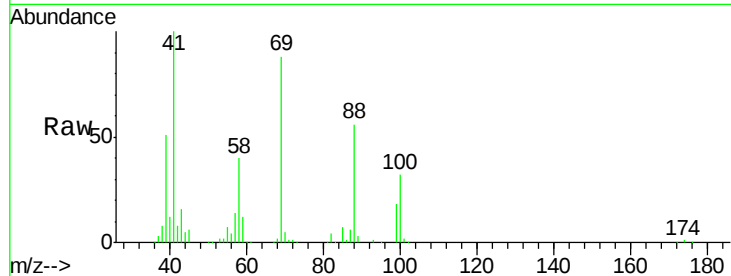
#49
1,4-Dioxane
Concen: 1090.046 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.0	23.0	34.4
58	74.0	57.9	86.9

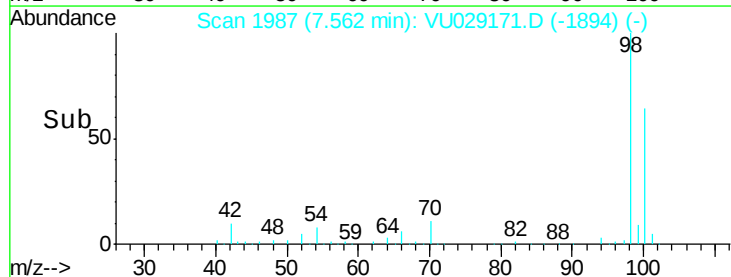
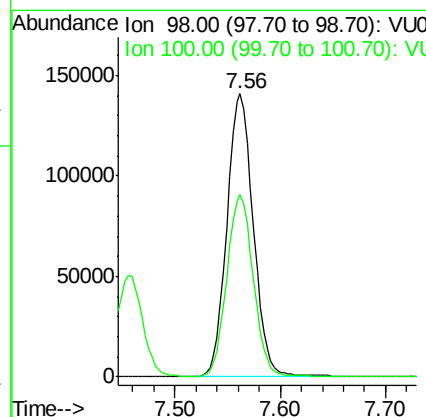
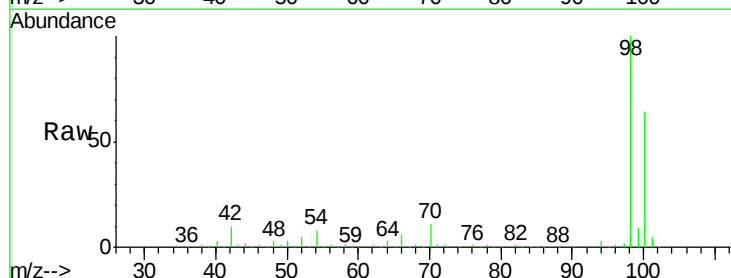
Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM



#50
Toluene-d8
Concen: 51.119 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 268.679 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 574686

Ion Ratio Lower Upper

43 100

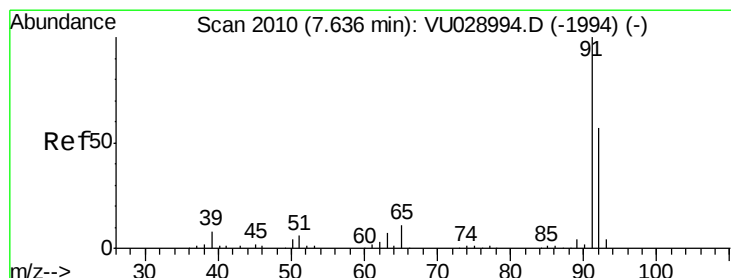
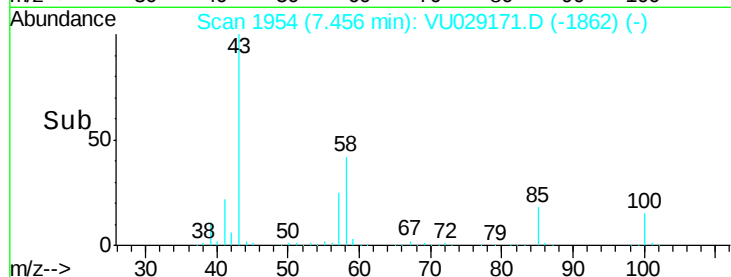
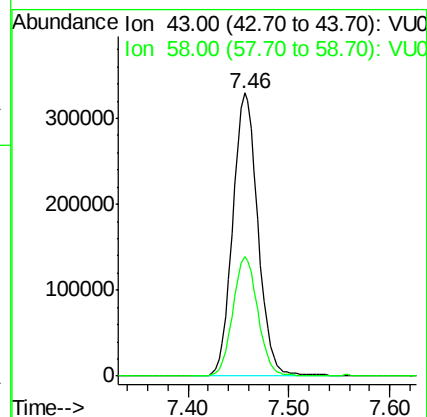
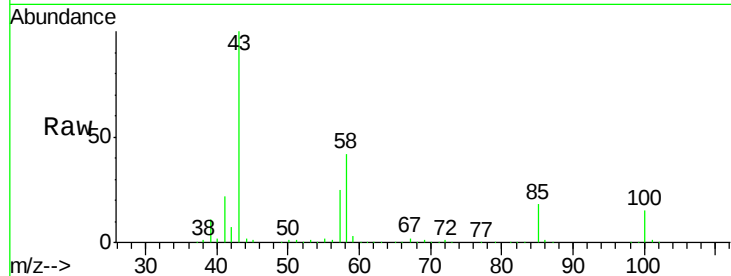
58 42.0 33.9 50.9

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:41:49 AM



#52

Toluene

Concen: 52.050 ug/l

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU029171.D

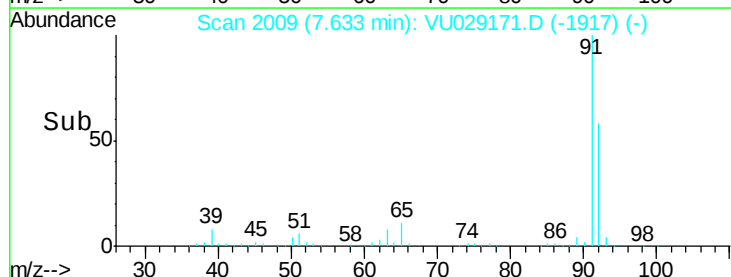
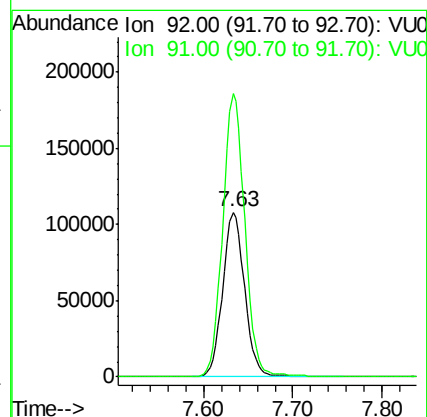
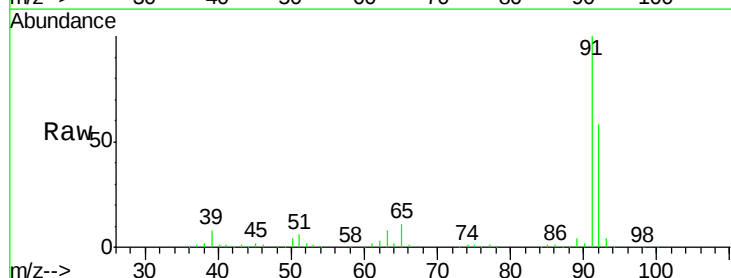
Acq: 15 Jan 2019 09:17

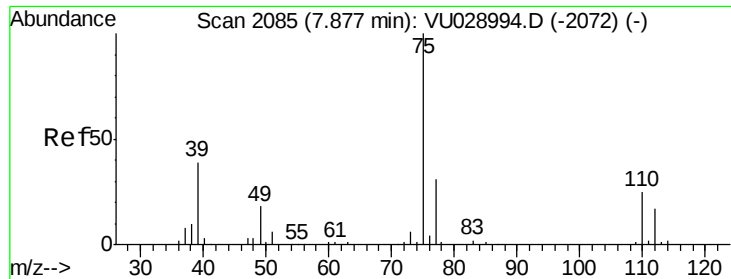
Tgt Ion: 92 Resp: 184488

Ion Ratio Lower Upper

92 100

91 173.6 139.8 209.8





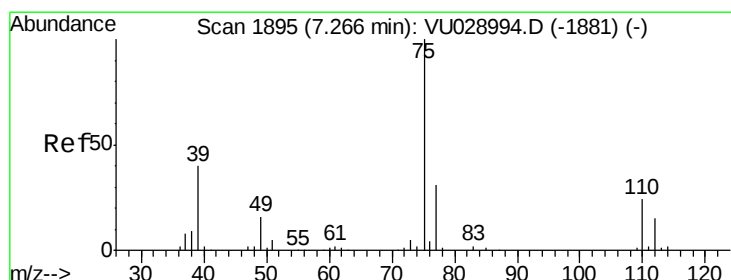
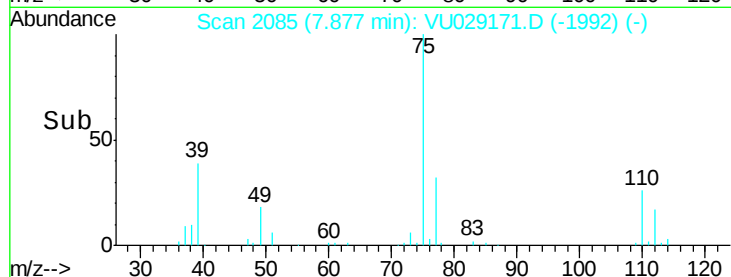
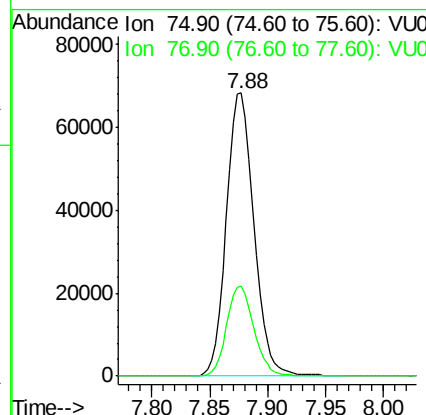
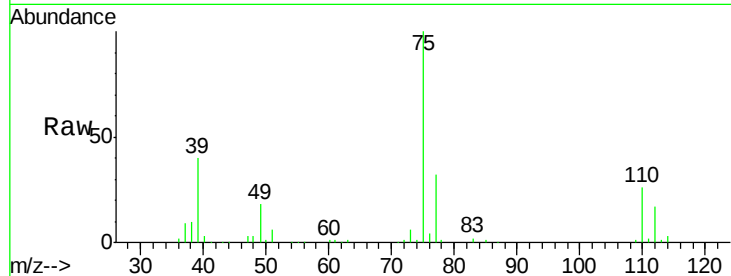
#53
t-1,3-Dichloropropene
Concen: 51.857 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4

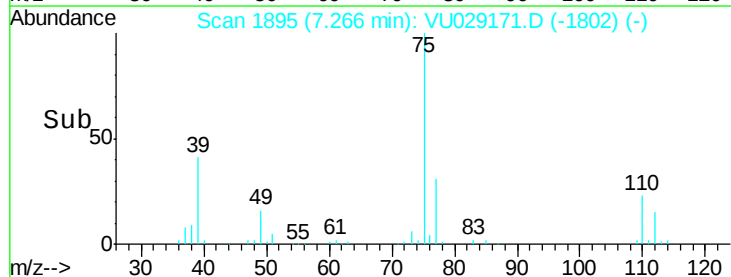
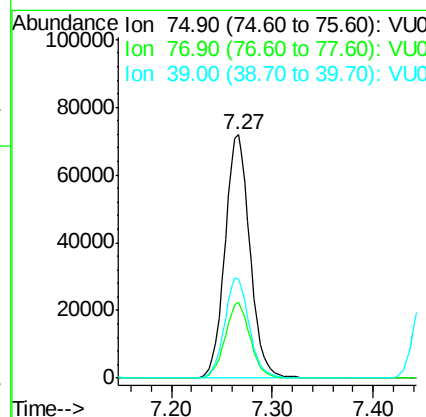
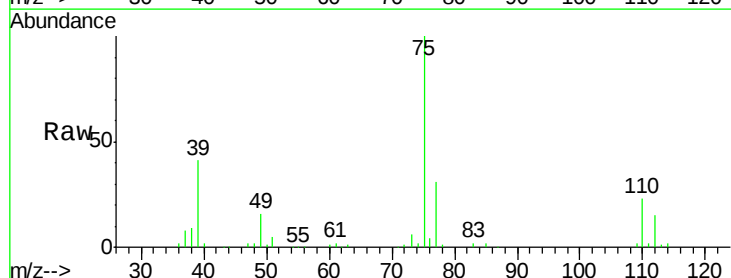
Manual Integrations
APPROVED

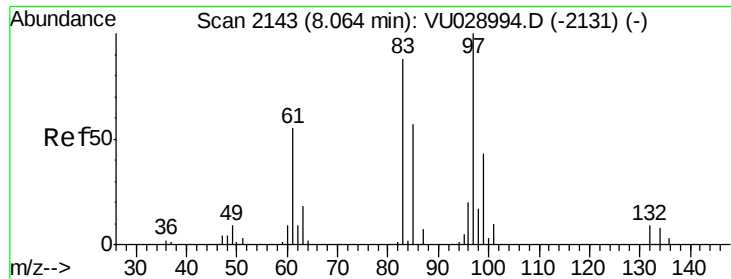
MMDadoda
1/16/2019 9:41:49 AM



#54
cis-1,3-Dichloropropene
Concen: 52.806 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6
39	40.9	32.2	48.4





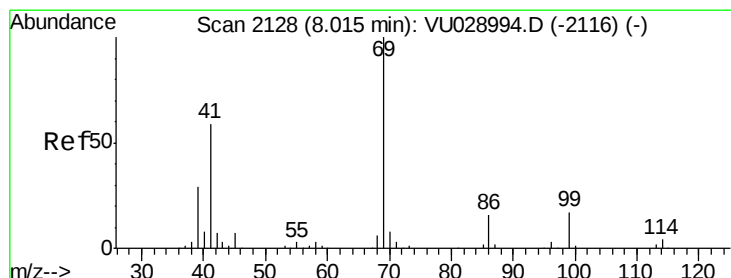
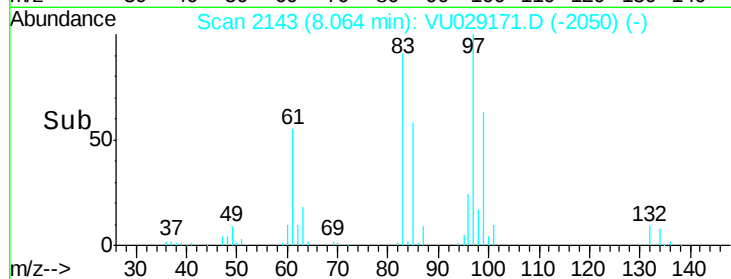
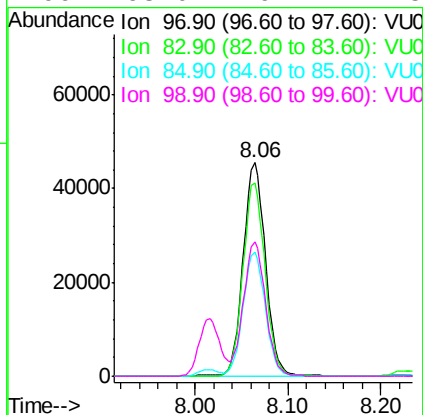
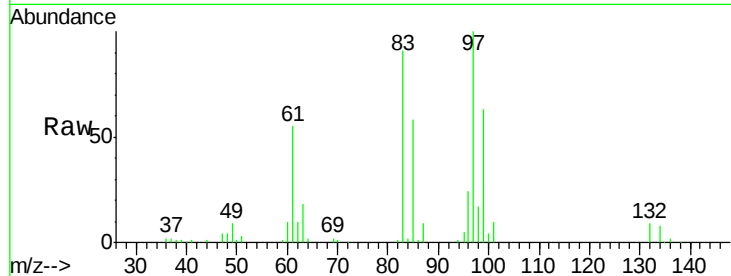
#55
 1,1,2-Trichloroethane
 Concen: 53.914 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	76555
Ion	Ratio	Lower	Upper
97	100		
83	90.6	69.8	104.8
85	58.0	47.3	70.9
99	63.0	49.7	74.5

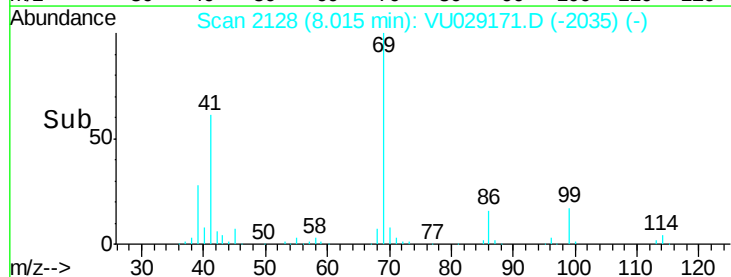
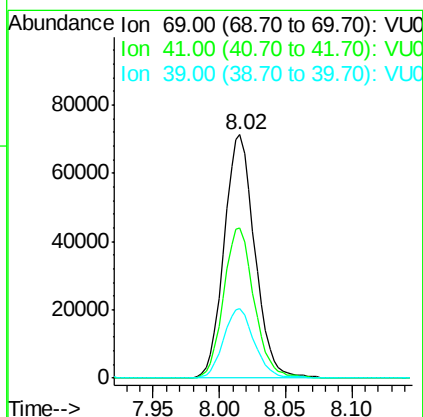
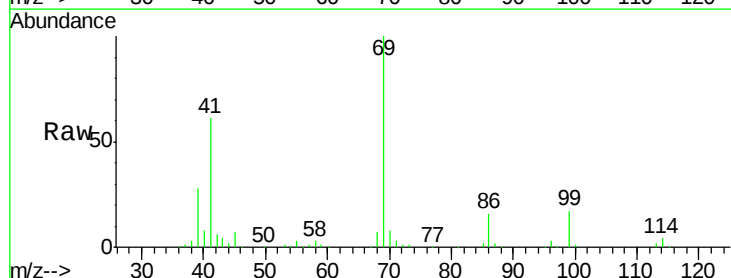
Manual Integrations
 APPROVED

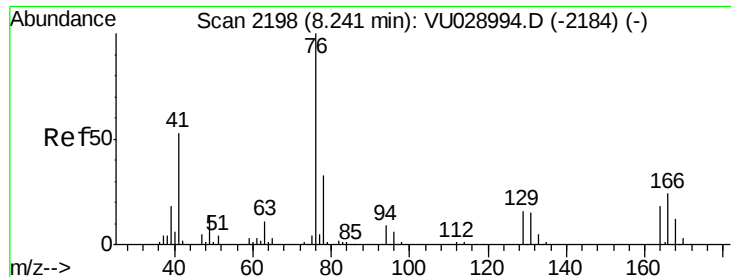
MMDadoda
 1/16/2019 9:41:49 AM



#56
 Ethyl methacrylate
 Concen: 52.398 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Tgt Ion:	69	Resp:	114625
Ion	Ratio	Lower	Upper
69	100		
41	61.4	47.5	71.3
39	28.0	22.5	33.7





#57

1,3-Dichloropropane

Concen: 52.542 ug/l

RT: 8.24 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 127661

Ion Ratio Lower Upper

76 100

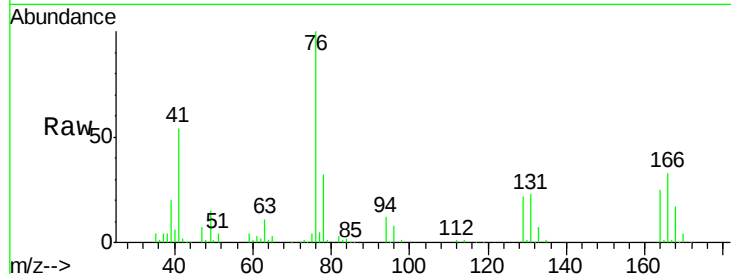
78 32.1 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:41:49 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

8.24

80000

60000

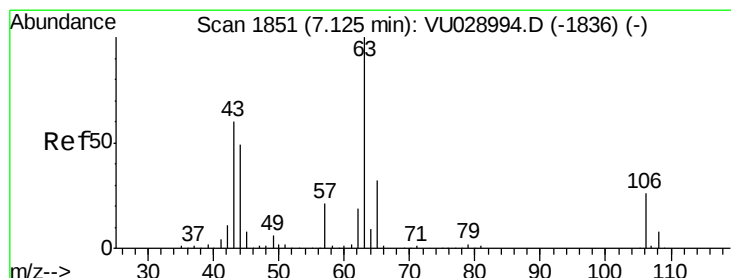
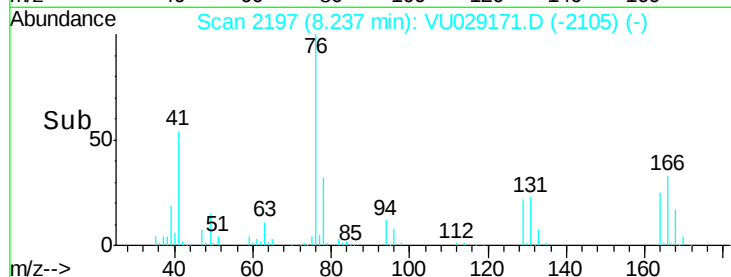
40000

20000

0

8.15 8.20 8.25 8.30

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 239.223 ug/l

RT: 7.12 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VU029171.D

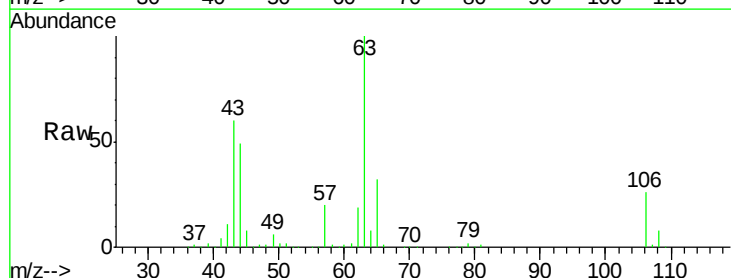
Acq: 15 Jan 2019 09:17

Tgt Ion: 63 Resp: 230148

Ion Ratio Lower Upper

63 100

106 25.4 20.6 31.0



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

7.12

150000

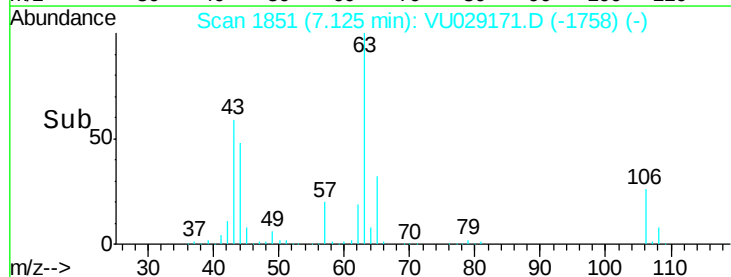
100000

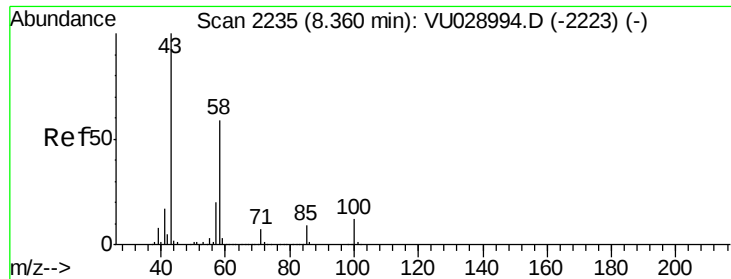
50000

0

7.10 7.20

Time-->





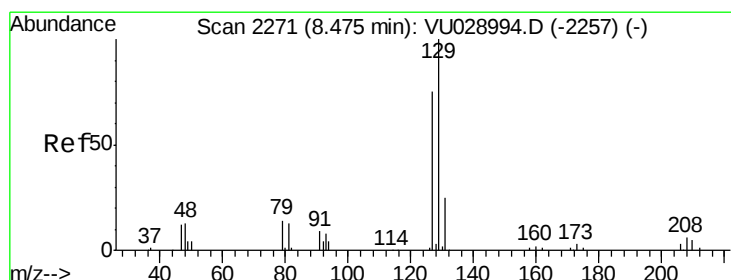
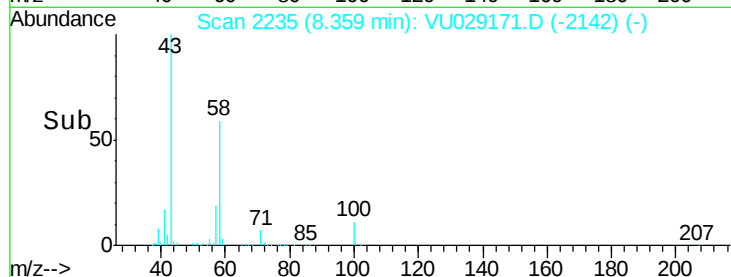
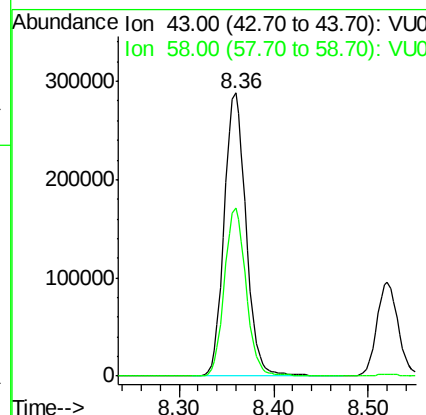
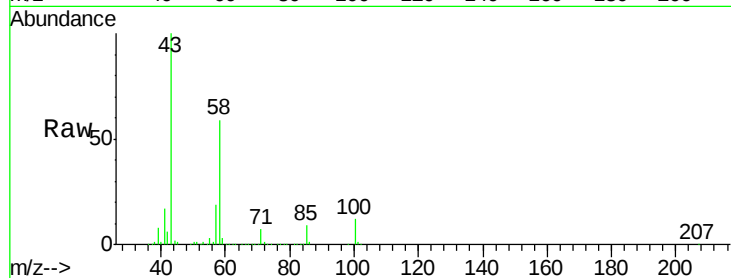
#59
2-Hexanone
Concen: 276.419 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	59.0	29.8	89.4

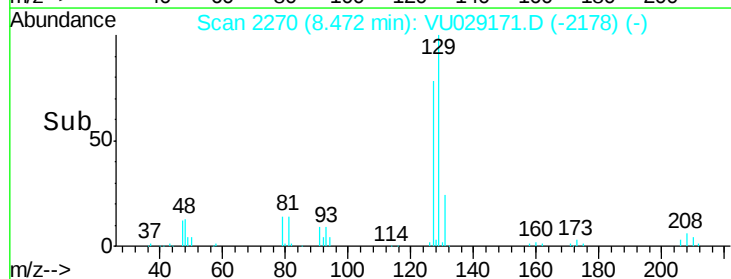
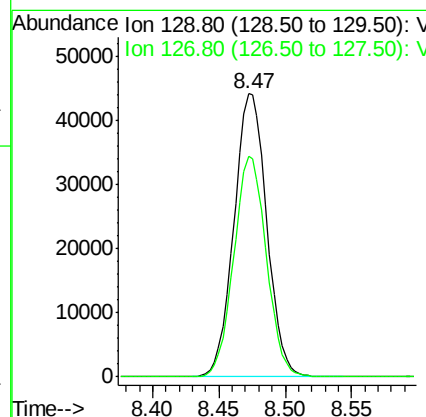
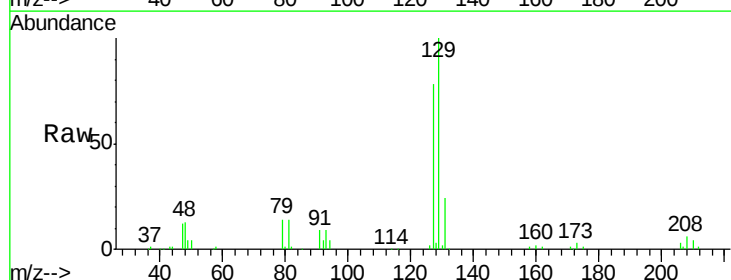
Manual Integrations
APPROVED

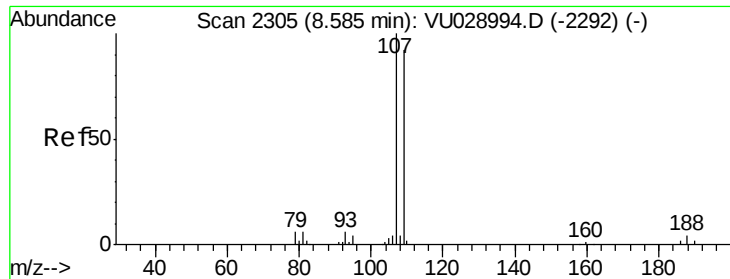
MMDadoda
1/16/2019 9:41:49 AM



#60
Dibromochloromethane
Concen: 54.015 ug/l
RT: 8.47 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.0	114.0





#61

1,2-Dibromoethane

Concen: 52.078 ug/l

RT: 8.58 min Scan# 2304

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 80201

Ion Ratio Lower Upper

107 100

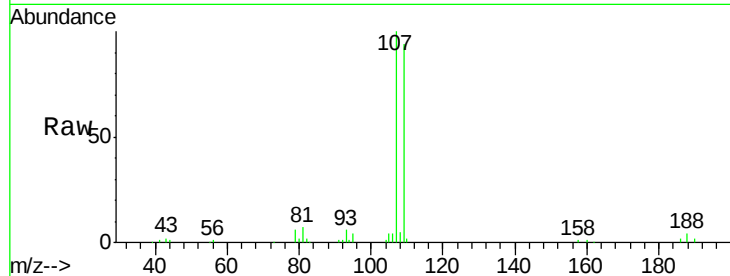
109 94.4 75.5 113.3

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:41:49 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

50000

40000

30000

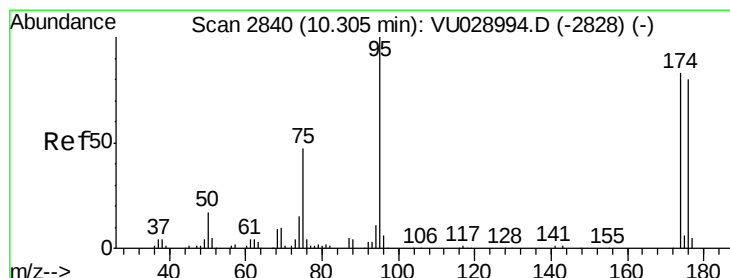
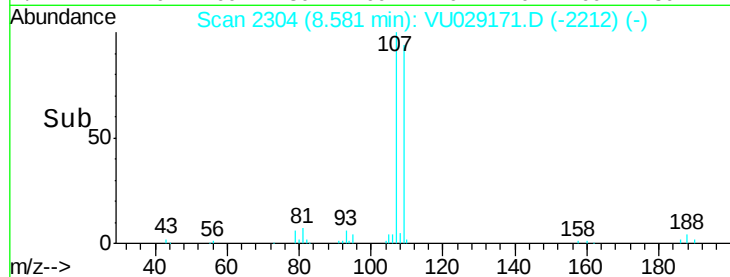
20000

10000

0

8.50 8.55 8.60 8.65 8.70

Time-->



#62

4-Bromofluorobenzene

Concen: 51.370 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

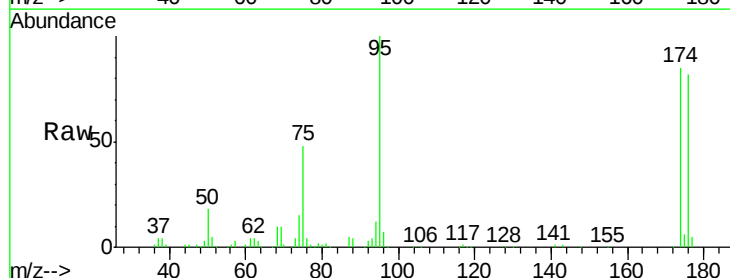
Tgt Ion: 95 Resp: 88225

Ion Ratio Lower Upper

95 100

174 84.9 0.0 170.6

176 82.4 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.30

60000

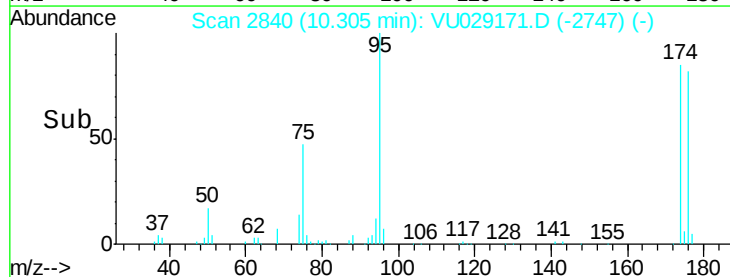
40000

20000

0

10.30 10.40

Time-->





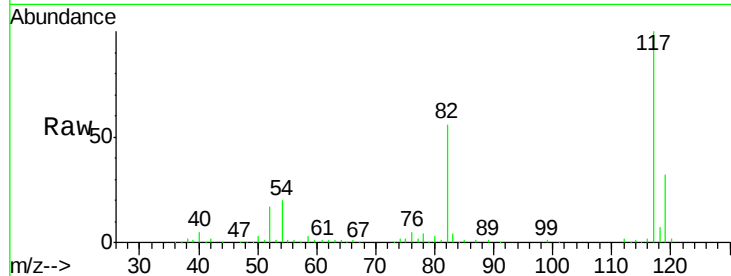
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.9	65.9
119	32.0	26.0	39.0

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM

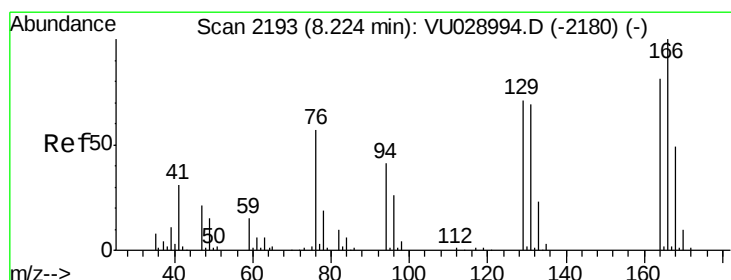
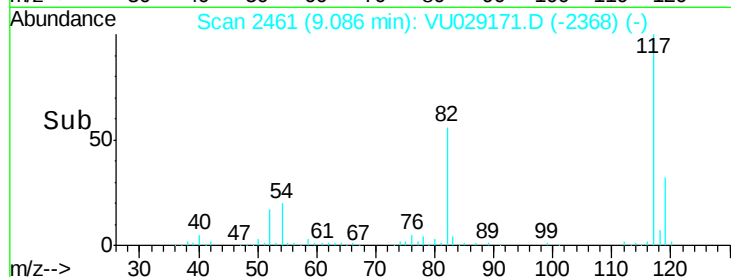
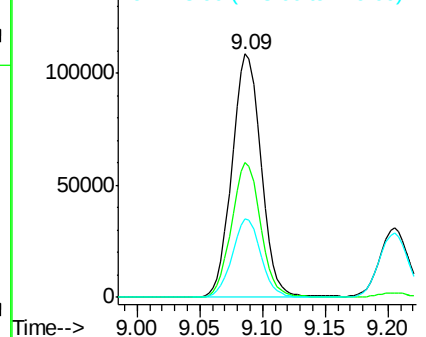


Abundance

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: 51.706 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.7	99.4	149.0
129	95.1	70.5	105.7
131	88.9	69.0	103.6

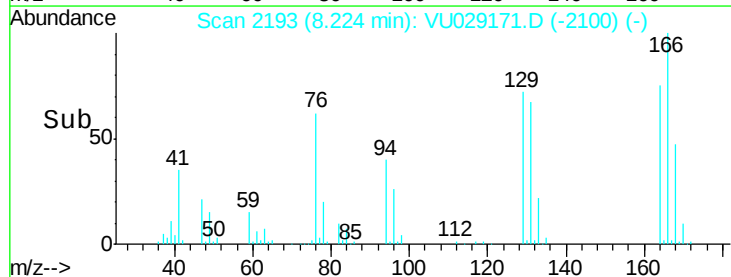
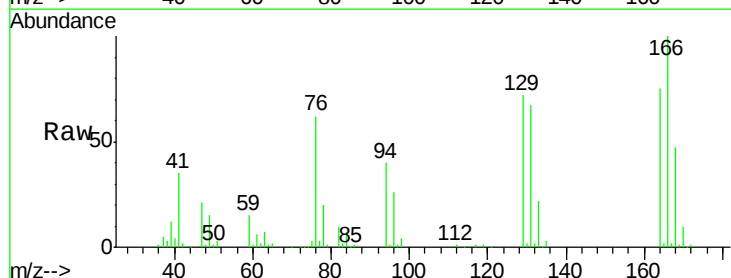
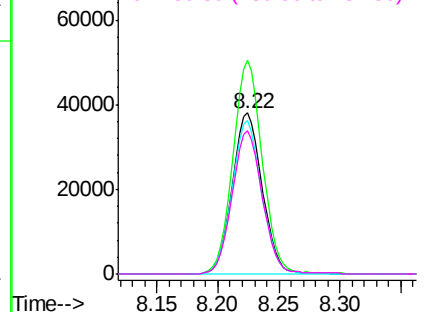
Abundance

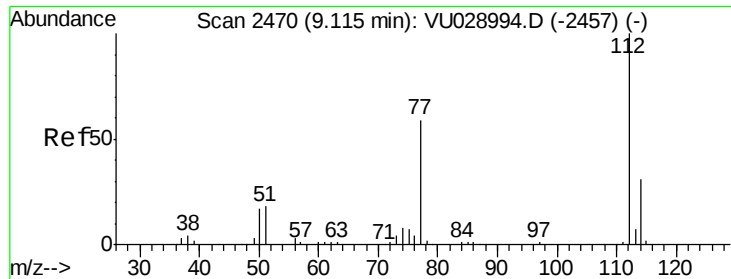
Ion 163.80 (163.50 to 164.50): V

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





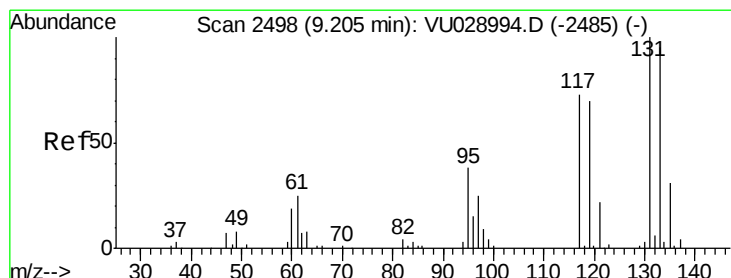
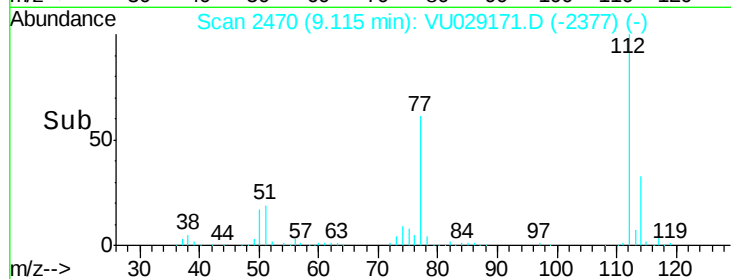
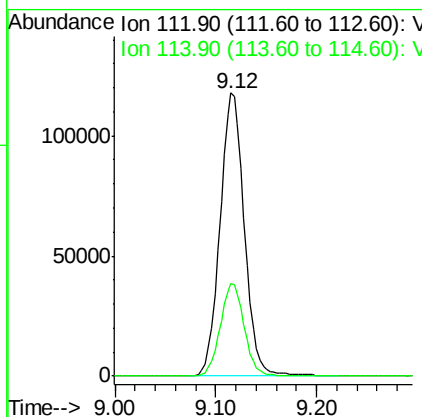
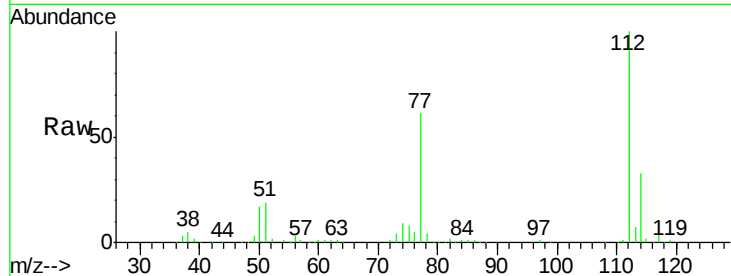
#65
Chlorobenzene
Concen: 50.334 ug/l
RT: 9.12 min Scan# 2470
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 198214
Ion Ratio Lower Upper
112 100
114 32.8 25.0 37.6

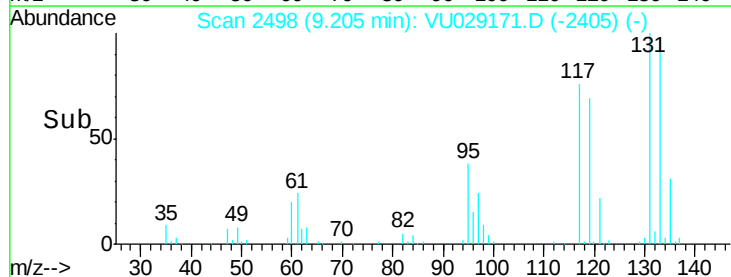
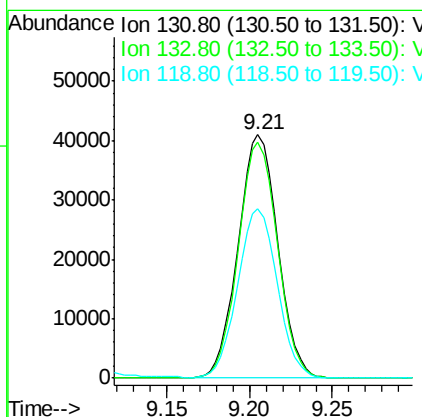
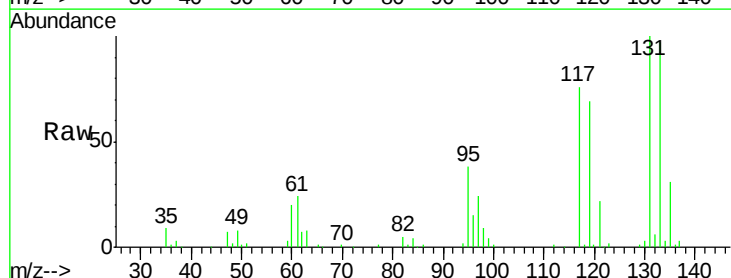
Manual Integrations
APPROVED

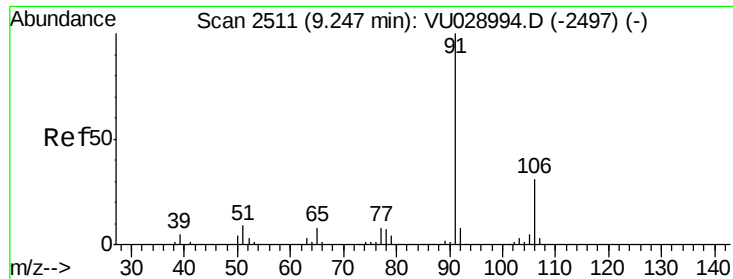
MMDadoda
1/16/2019 9:41:49 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 53.546 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion:131 Resp: 68429
Ion Ratio Lower Upper
131 100
133 95.9 48.2 144.6
119 69.3 35.4 106.3





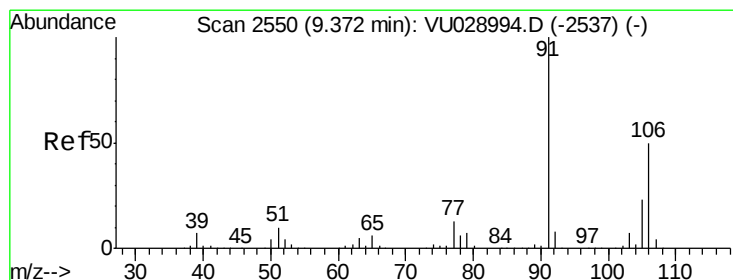
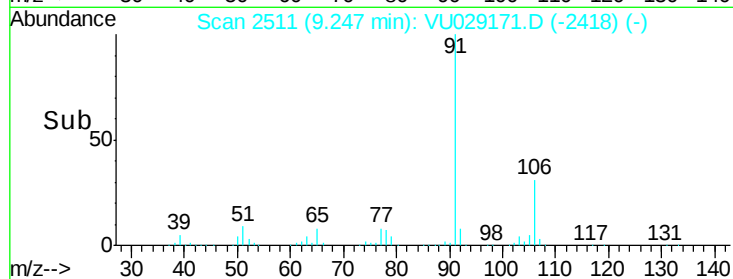
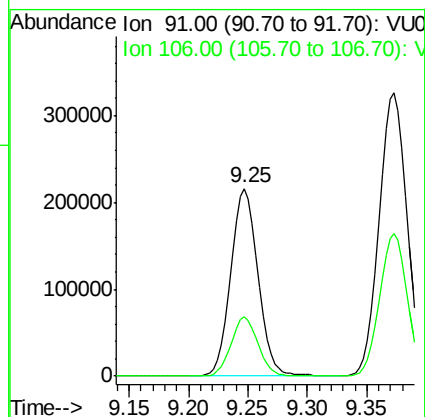
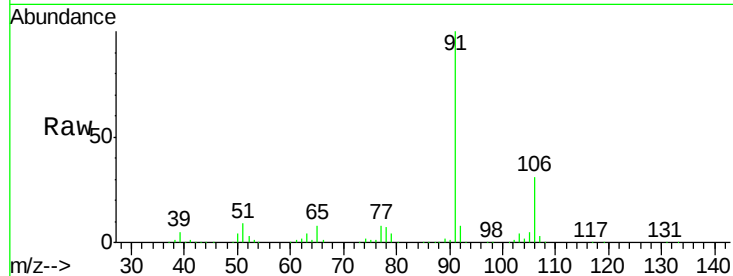
#67
Ethyl Benzene
Concen: 52.421 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 344649
Ion Ratio Lower Upper
91 100
106 31.4 25.0 37.4

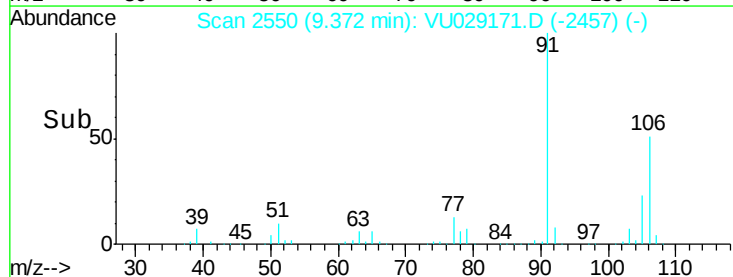
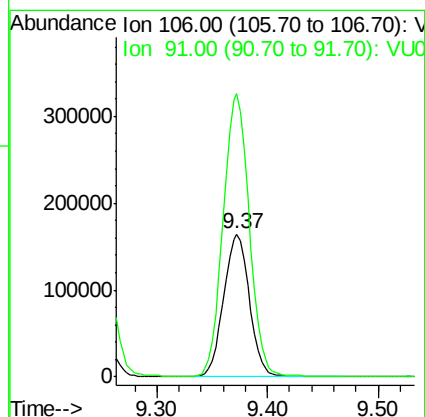
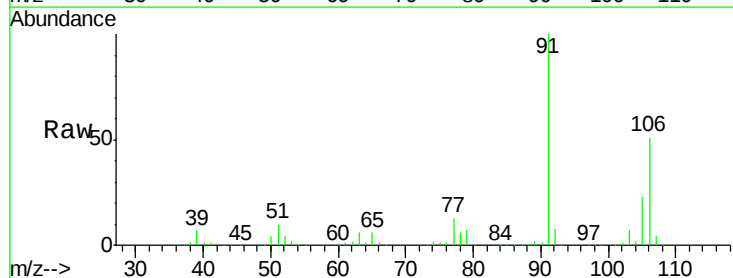
Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM



#68
m/p-Xylenes
Concen: 104.201 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion: 106 Resp: 266189
Ion Ratio Lower Upper
106 100
91 200.9 161.7 242.5





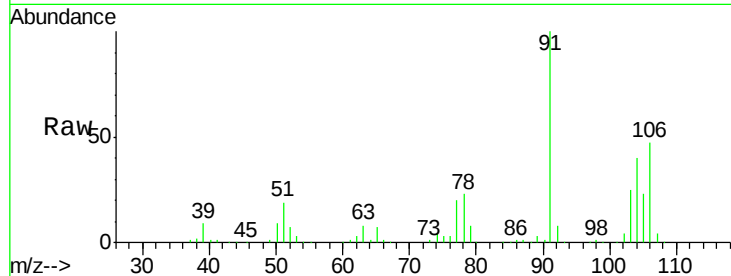
#69
o-Xylene
Concen: 53.129 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

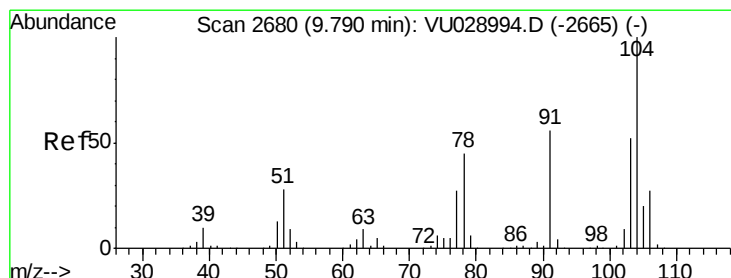
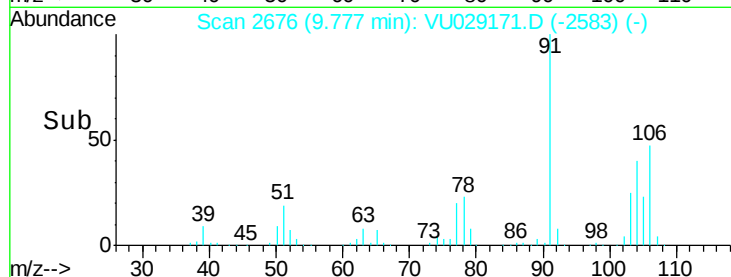
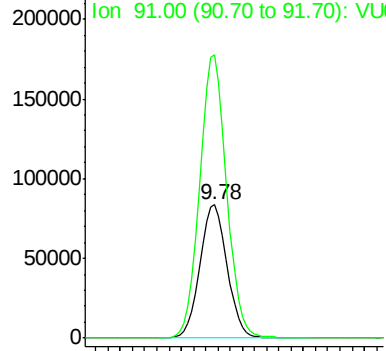
Tot Ion	Ratio	Lower	Upper
106	100		
91	209.8	106.1	318.3

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM

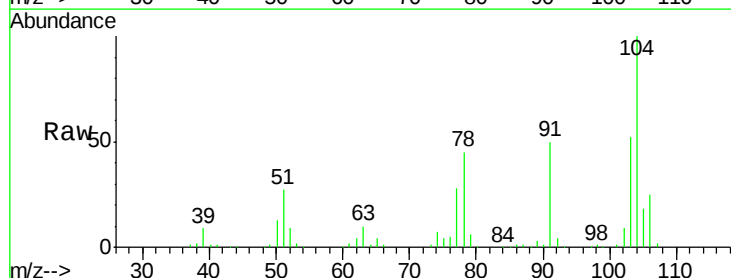


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

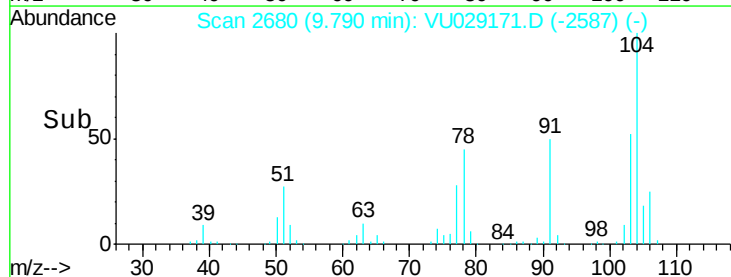
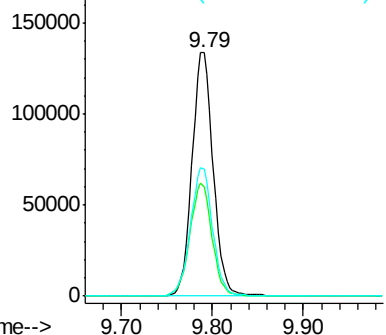


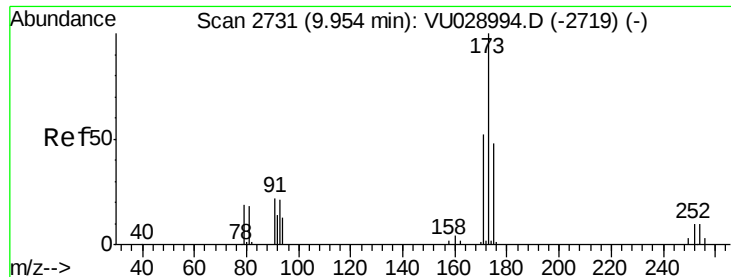
#70
Styrene
Concen: 53.549 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.6	38.6	58.0
103	55.5	44.5	66.7



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





#71

Bromoform

Concen: 54.086 ug/l

RT: 9.95 min Scan# 2731

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

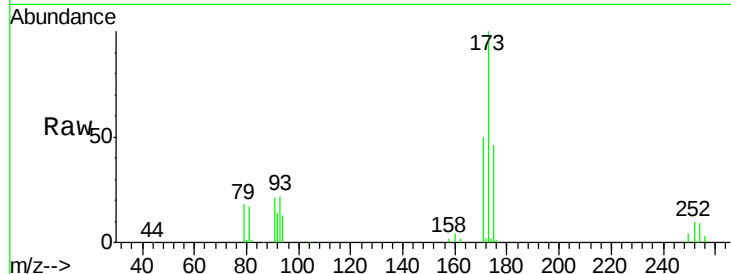
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM

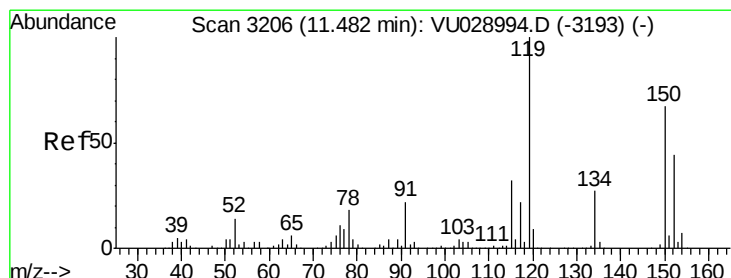
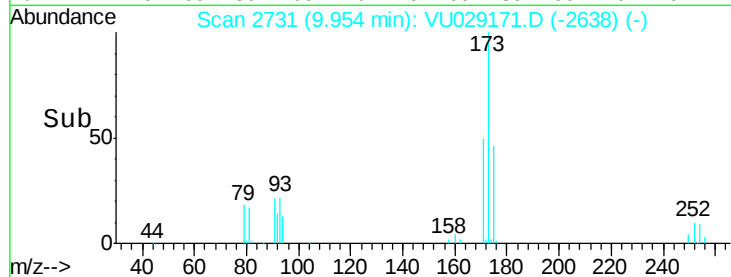
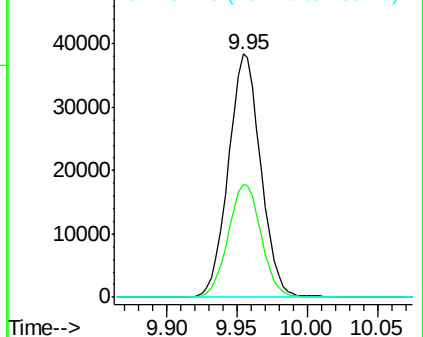


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

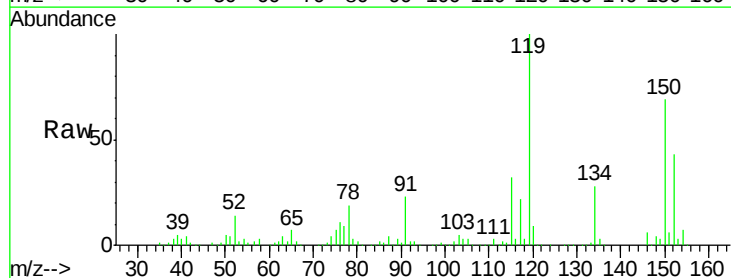
RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	82.4	40.1	120.3
150	176.0	0.0	345.2

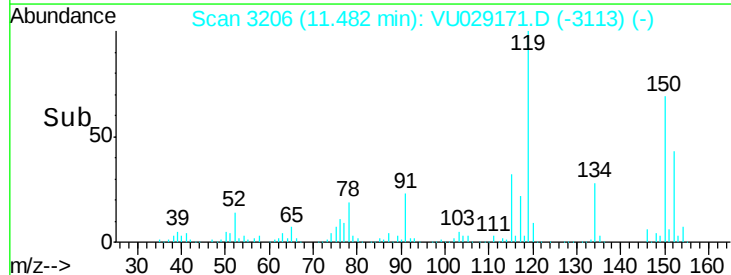
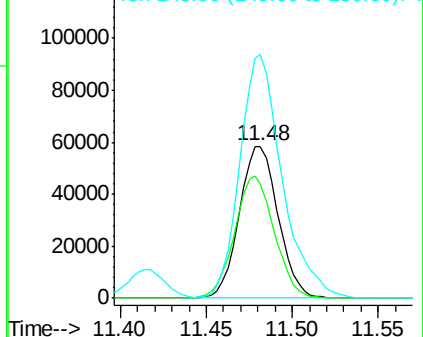


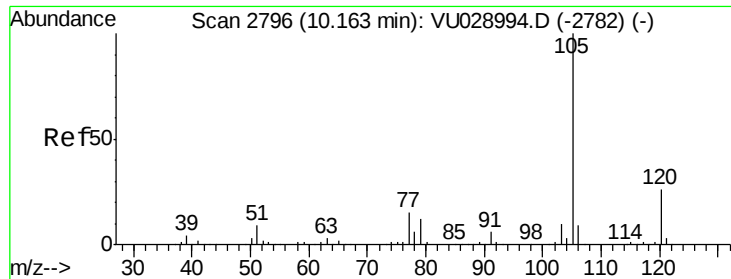
Abundance

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: 50.338 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 340485

Ion Ratio Lower Upper

105 100

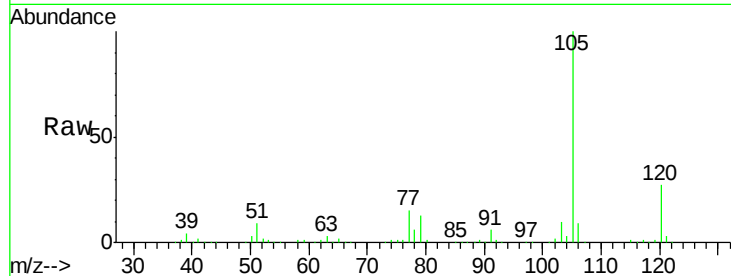
120 26.8 13.2 39.5

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:41:49 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

100000

50000

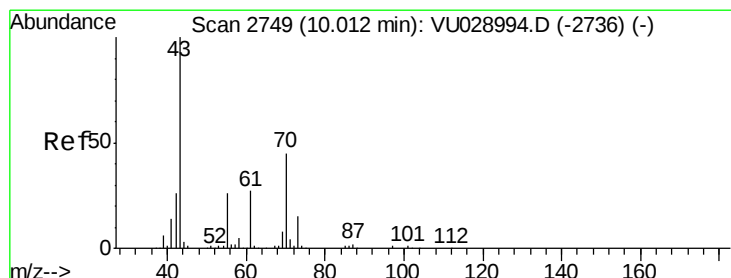
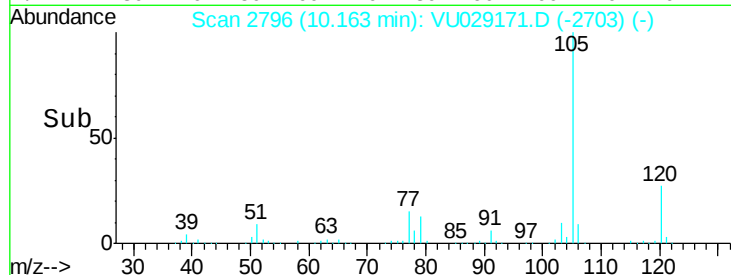
0

10.10

10.20

10.30

Time-->



#74

N-ethyl acetate

Concen: 49.869 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tgt Ion: 43 Resp: 145354

Ion Ratio Lower Upper

43 100

70 45.3 36.3 54.5

55 26.3 20.5 30.7

61 25.9 21.8 32.8

Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

150000

100000

50000

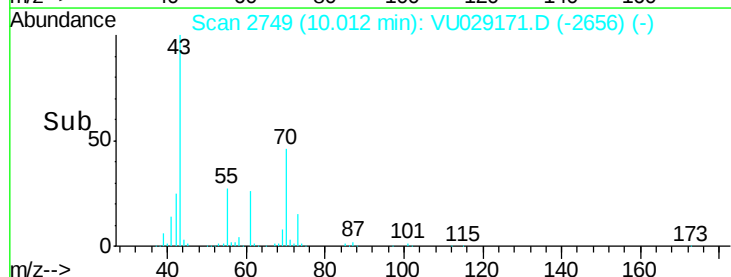
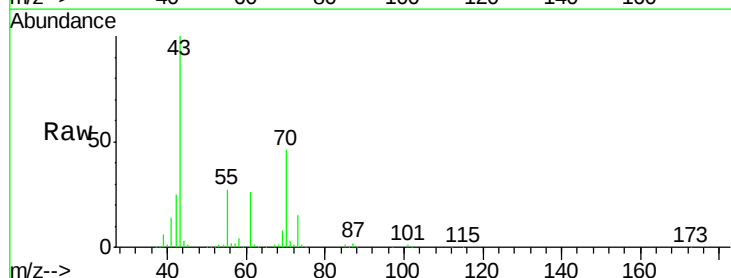
0

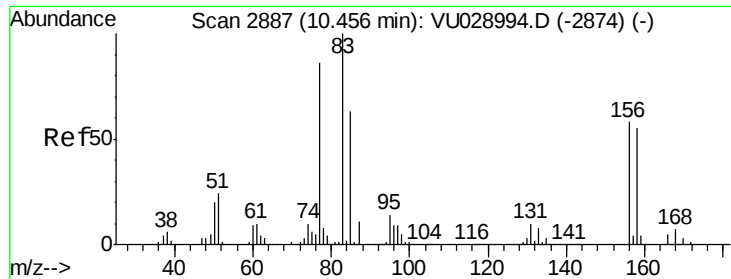
9.90

10.00

10.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 48.795 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 132278
Ion Ratio Lower Upper

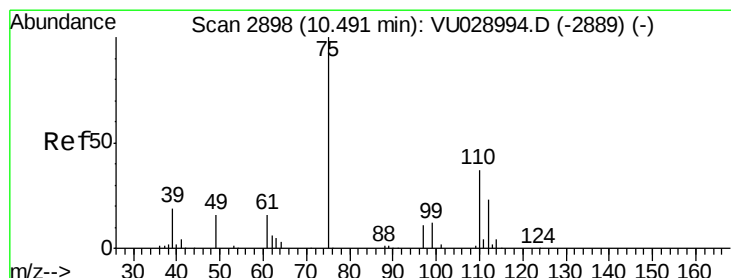
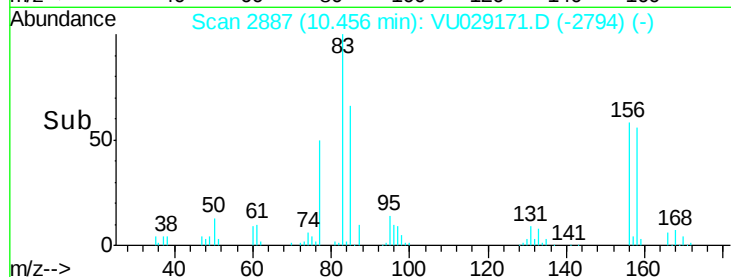
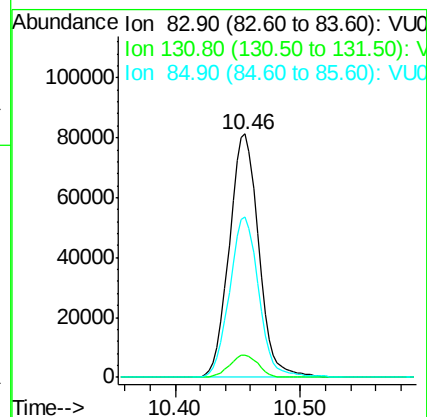
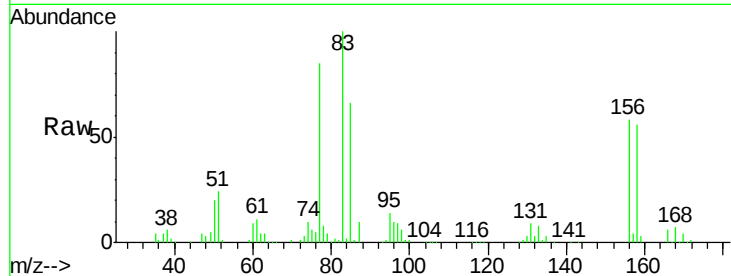
83 100

131 8.9 4.7 14.1

85 65.5 32.0 96.2

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM



#76

1,2,3-Trichloropropane

Concen: 51.946 ug/l m

RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

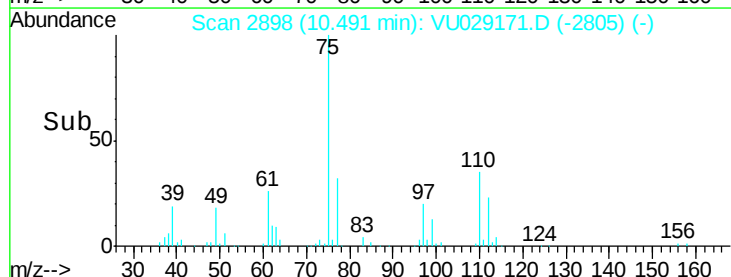
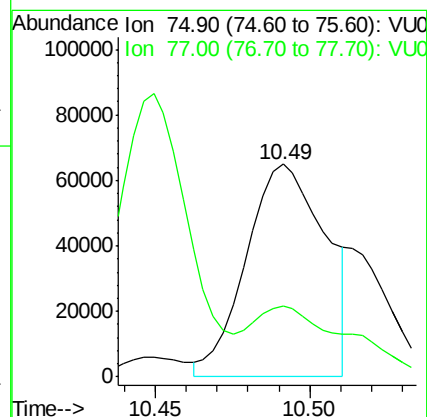
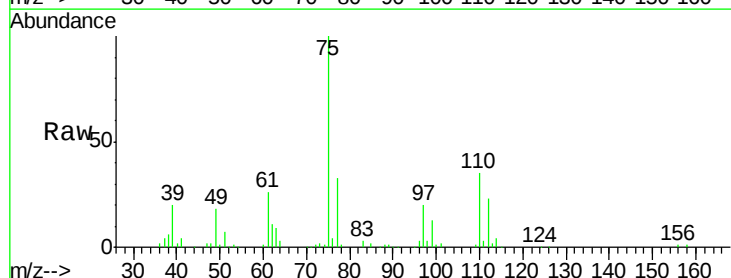
Lab File: VU029171.D

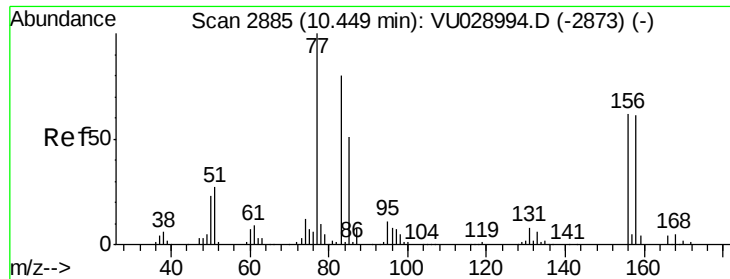
Acq: 15 Jan 2019 09:17

Tgt Ion: 75 Resp: 116310
Ion Ratio Lower Upper

75 100

77 41.9 20.9 62.8





#77

Bromobenzene

Concen: 50.105 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 88320

Ion Ratio Lower Upper

156 100

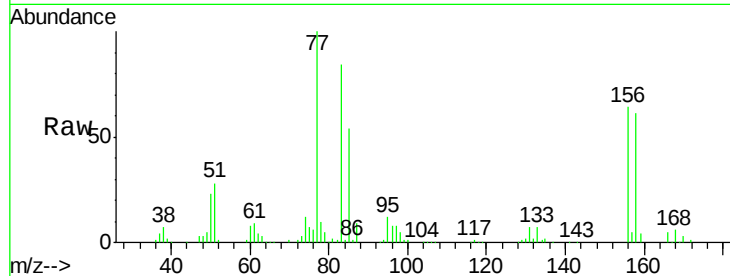
77 156.9 79.0 237.2

158 96.5 48.9 146.6

Manual Integrations
APPROVED

MMDadoda

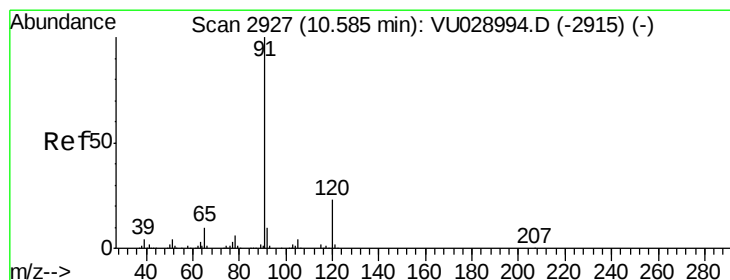
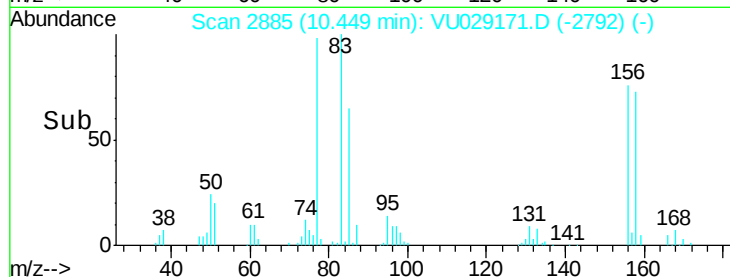
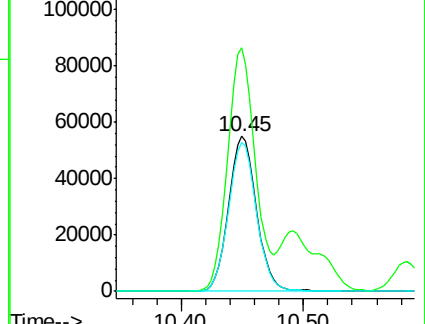
1/16/2019 9:41:49 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 52.483 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. -0.00 min

Lab File: VU029171.D

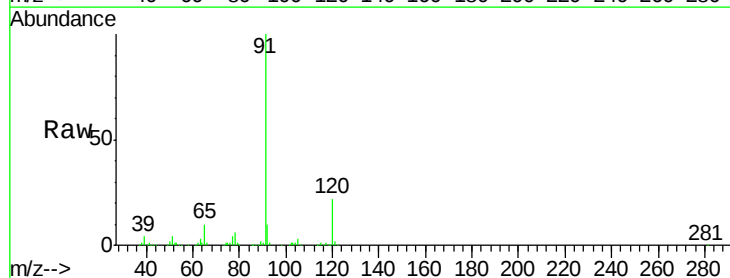
Acq: 15 Jan 2019 09:17

Tgt Ion: 91 Resp: 418355

Ion Ratio Lower Upper

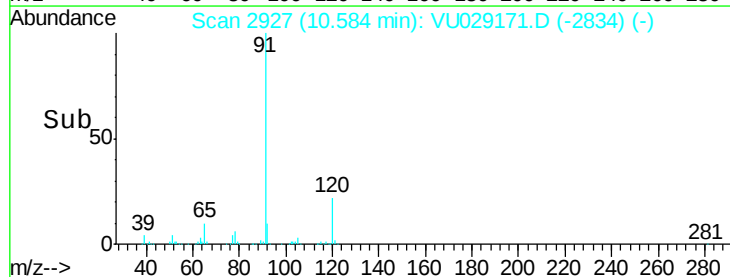
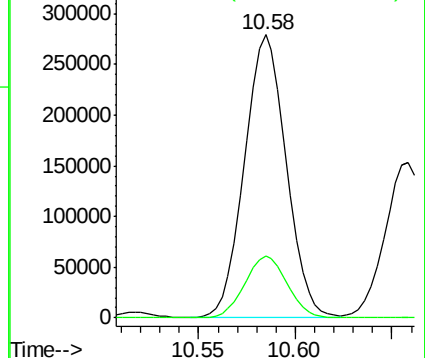
91 100

120 22.3 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





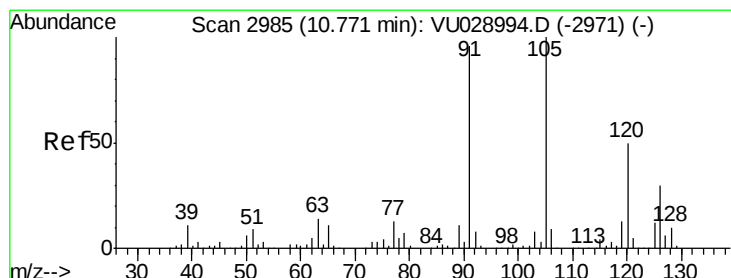
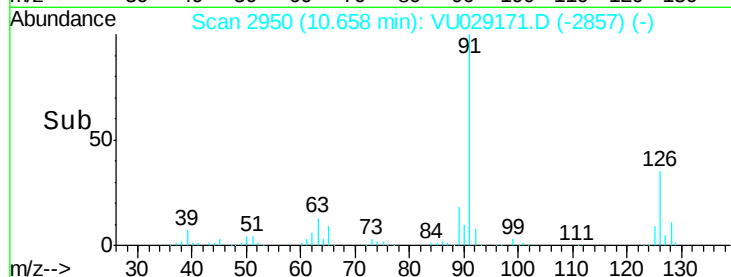
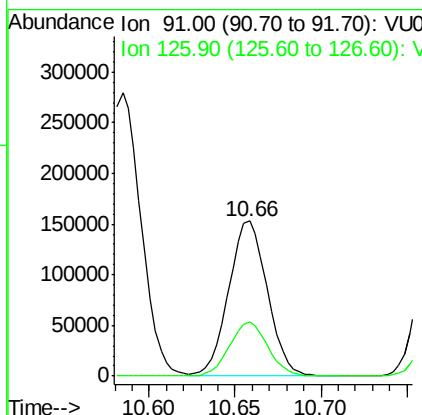
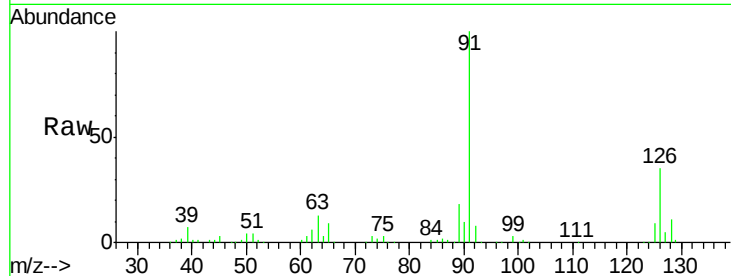
#79
 2-Chlorotoluene
 Concen: 49.048 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 237169
 Ion Ratio Lower Upper
 91 100
 126 34.9 16.8 50.4

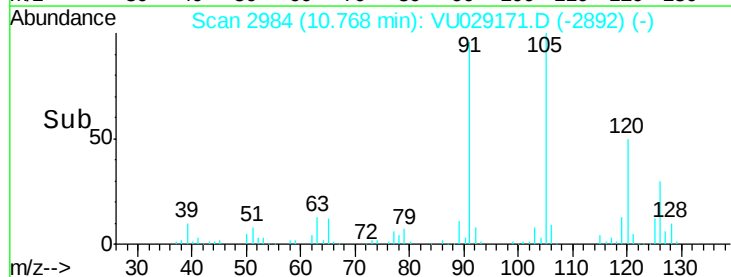
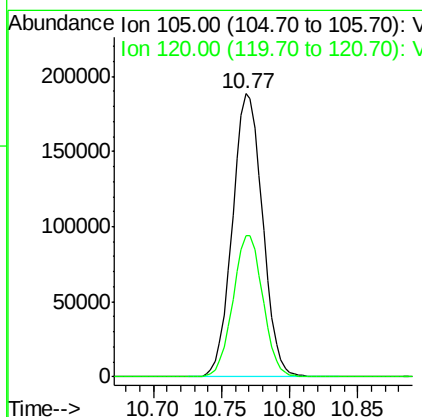
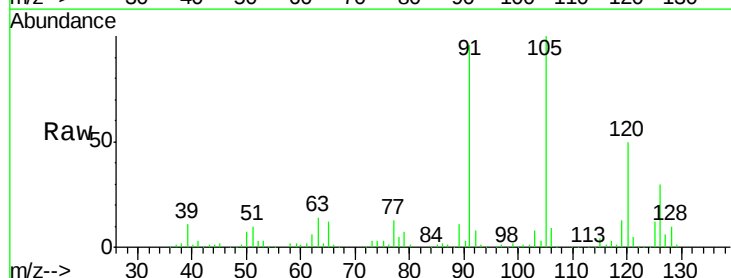
Manual Integrations
 APPROVED

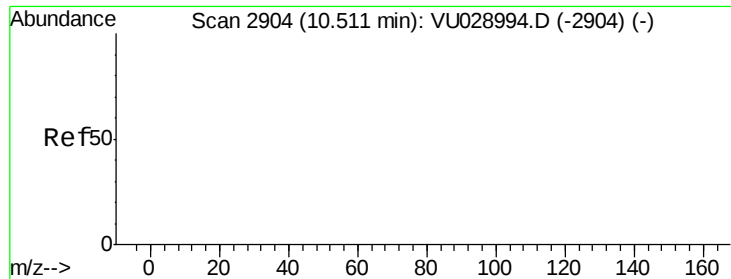
MMDadoda
 1/16/2019 9:41:49 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 51.261 ug/l
 RT: 10.77 min Scan# 2984
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Tgt Ion: 105 Resp: 289546
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.8 74.4





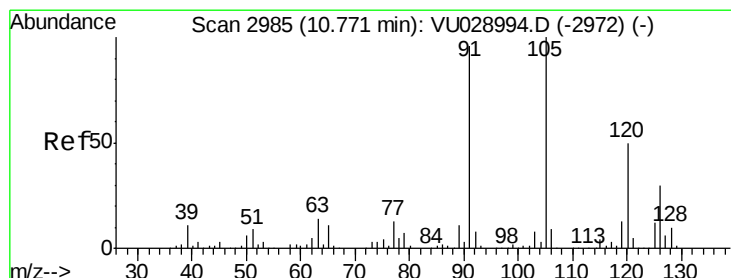
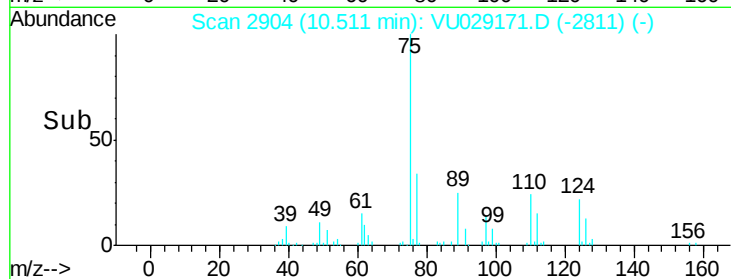
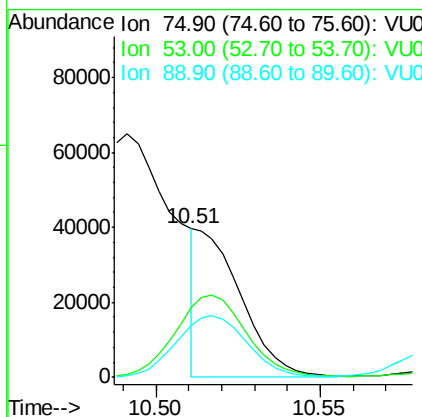
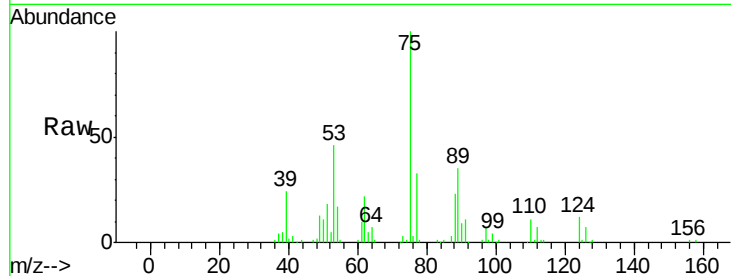
#81
trans-1,4-Dichloro-2-butene
Concen: 42.570 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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

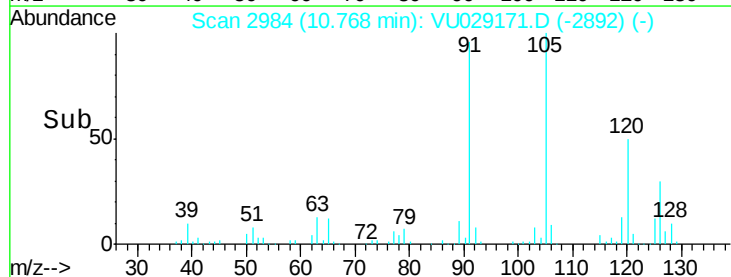
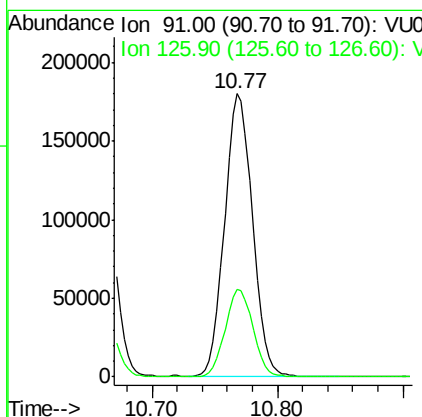
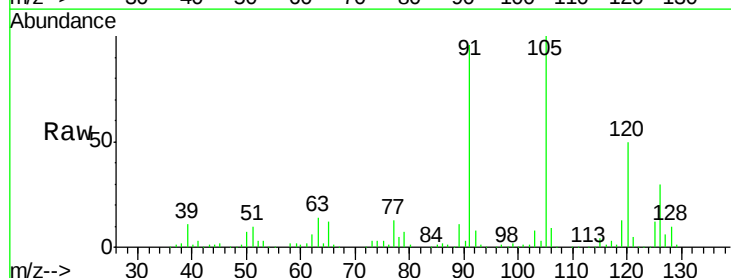
Manual Integrations
APPROVED

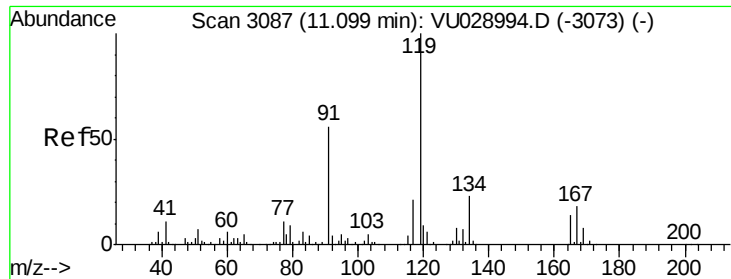
MMDadoda
1/16/2019 9:41:49 AM



#82
4-Chlorotoluene
Concen: 50.045 ug/l
RT: 10.77 min Scan# 2984
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.5	46.5





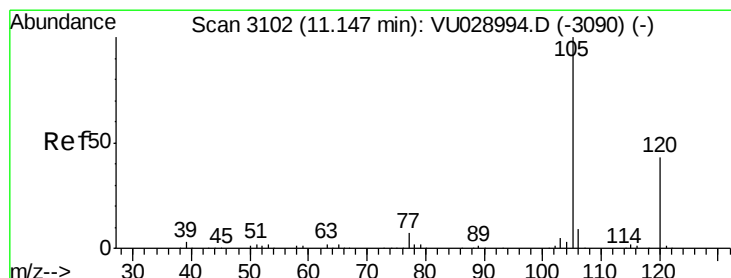
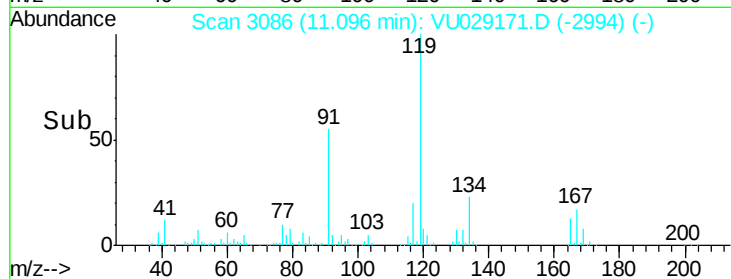
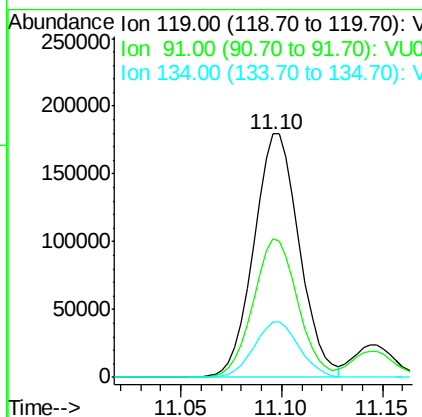
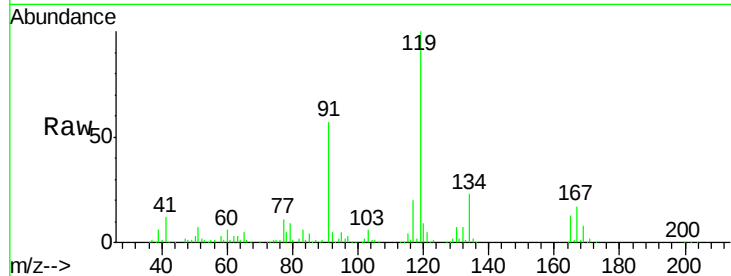
#83
tert-Butylbenzene
Concen: 50.734 ug/l
RT: 11.10 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	282451		
91	55.9	28.2	84.6	
134	22.6	11.3	33.8	

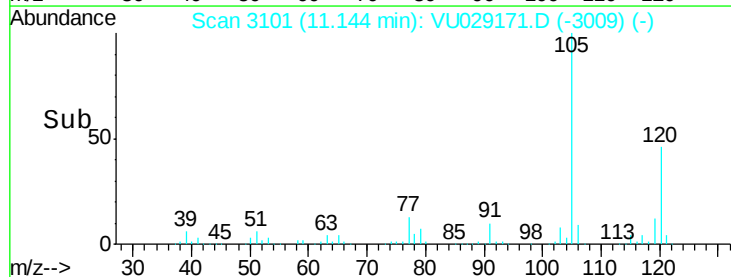
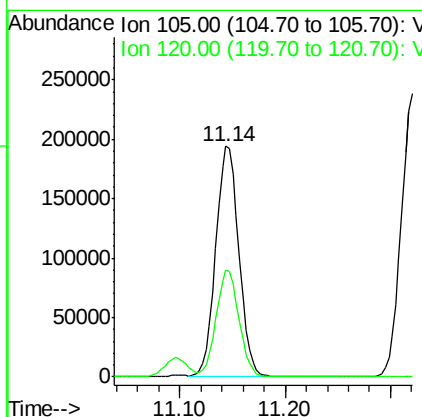
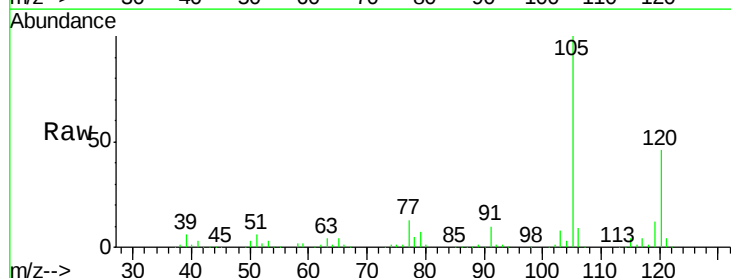
Manual Integrations
APPROVED

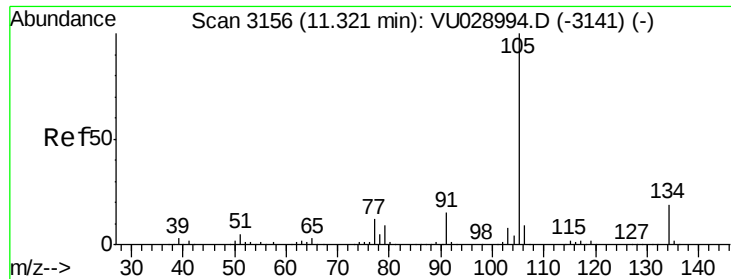
MMDadoda
1/16/2019 9:41:49 AM



#84
1,2,4-Trimethylbenzene
Concen: 52.302 ug/l
RT: 11.14 min Scan# 3101
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	294955		
120	45.7	23.1	69.3	





#85

sec-Butylbenzene

Concen: 52.975 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 35686

Ion Ratio Lower Upper

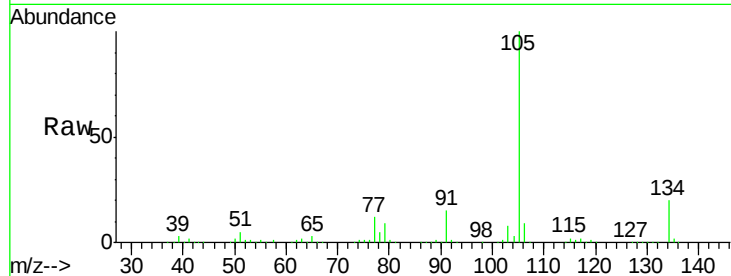
105 100

134 19.6 9.7 29.1

Manual Integrations
APPROVED

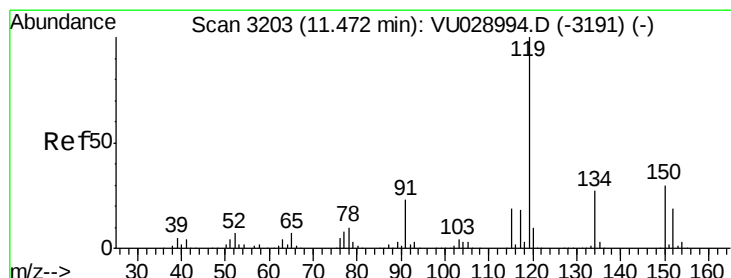
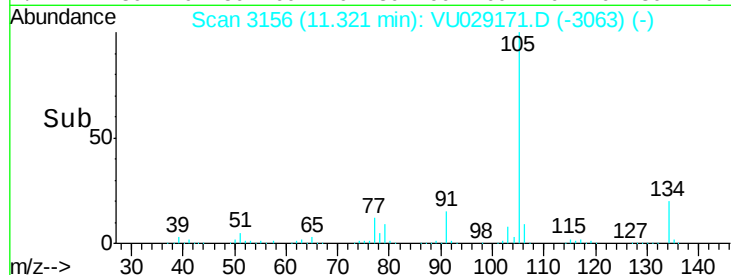
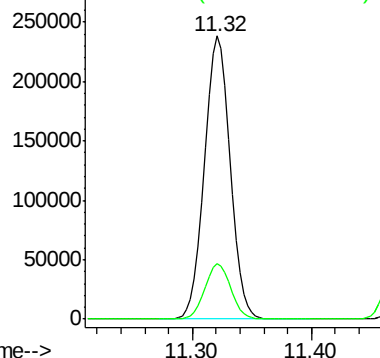
MMDadoda

1/16/2019 9:41:49 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 53.653 ug/l

RT: 11.47 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

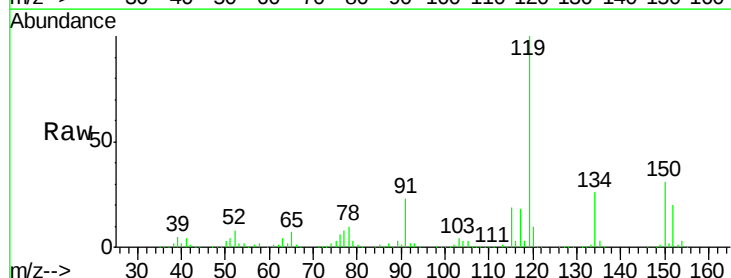
Tgt Ion:119 Resp: 307832

Ion Ratio Lower Upper

119 100

134 26.8 13.5 40.4

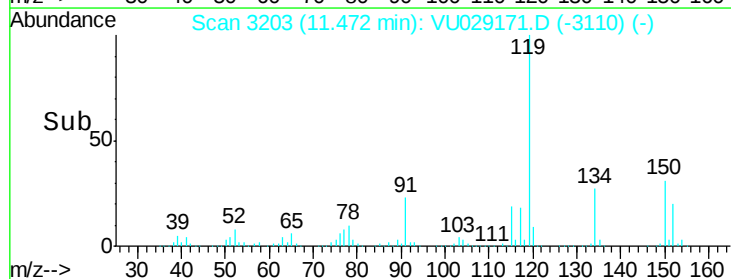
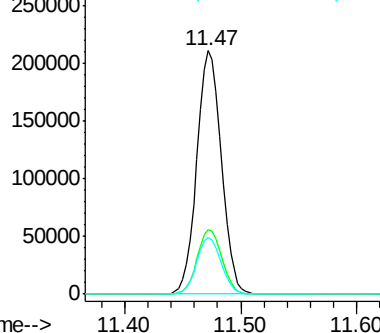
91 23.3 11.3 33.8

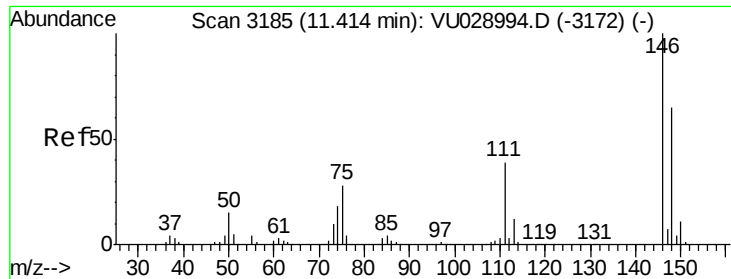


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0





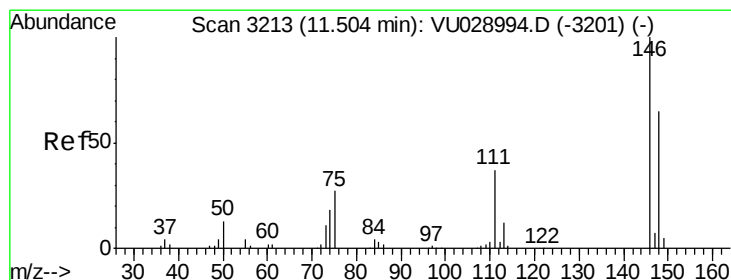
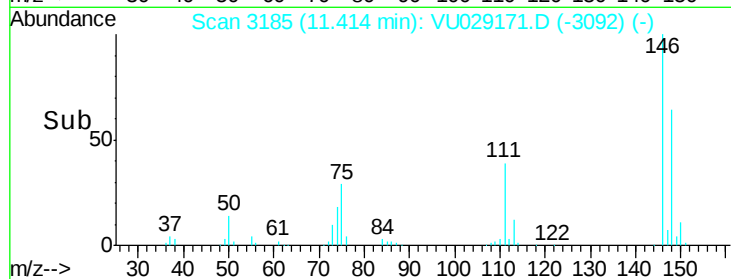
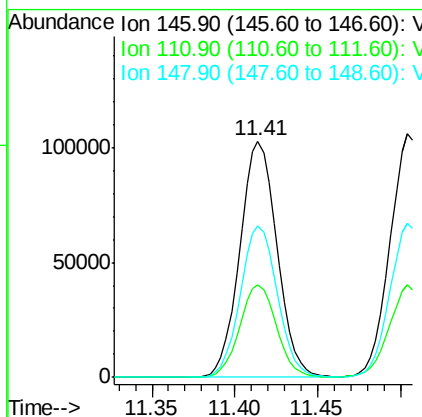
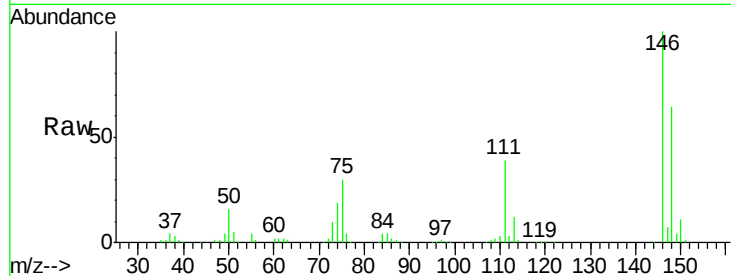
#87
 1,3-Dichlorobenzene
 Concen: 49.638 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.3	57.8
148	64.1	32.5	97.5

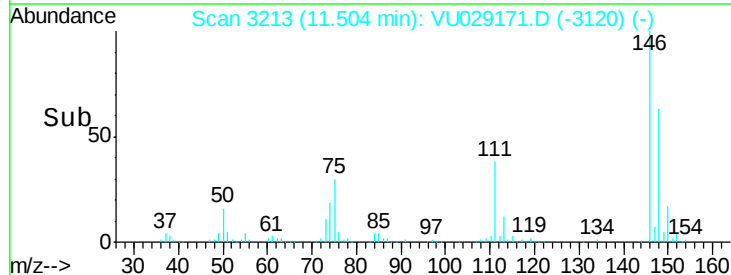
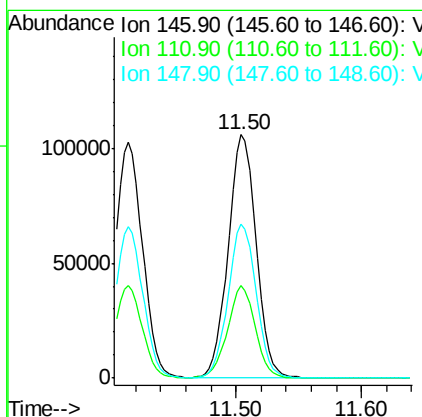
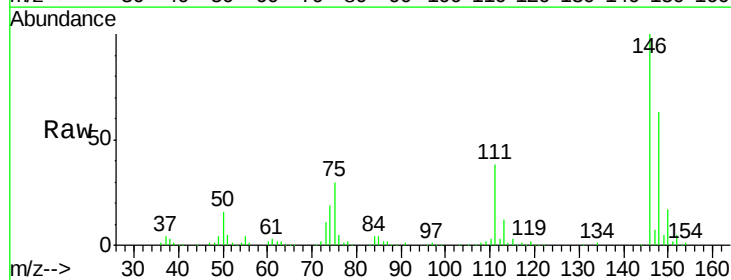
Manual Integrations
 APPROVED

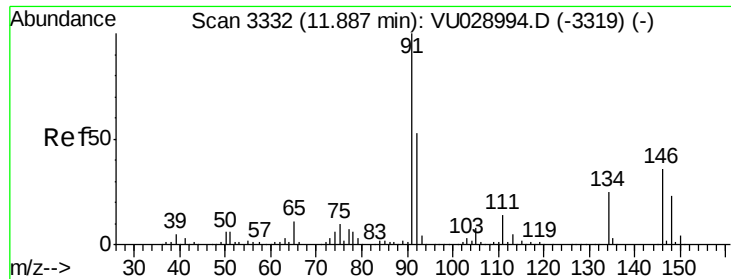
MMDadoda
 1/16/2019 9:41:49 AM



#88
 1,4-Dichlorobenzene
 Concen: 49.098 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU029171.D
 Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.3
148	63.4	32.6	98.0





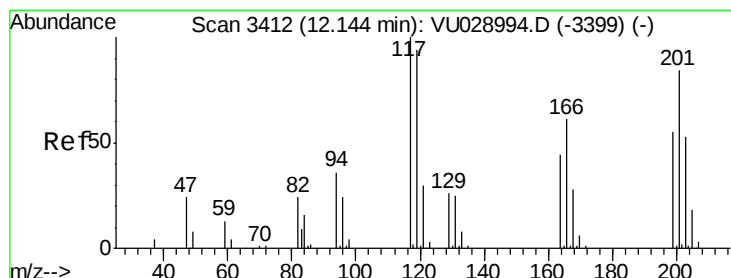
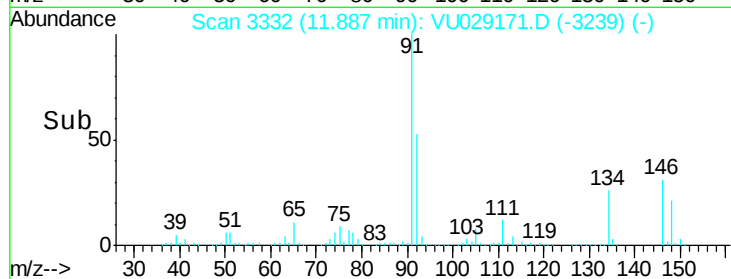
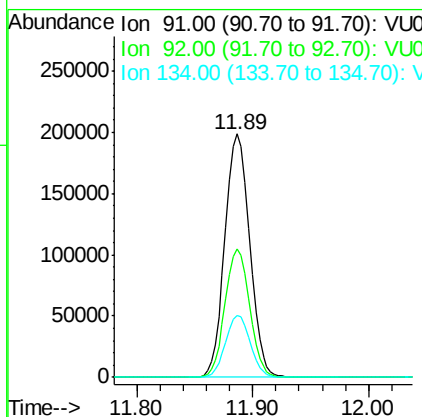
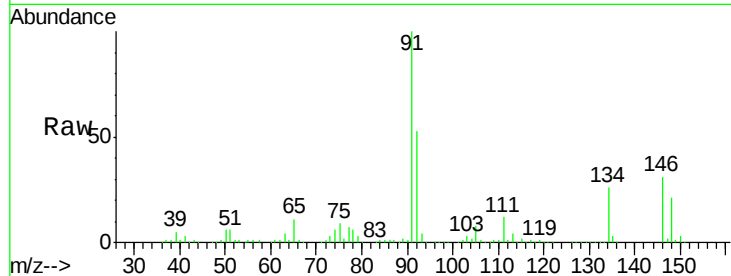
#89
n-Butylbenzene
Concen: 57.517 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.2	78.5
134	25.2	12.6	37.6

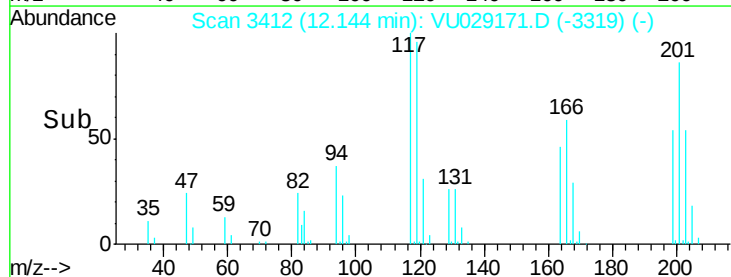
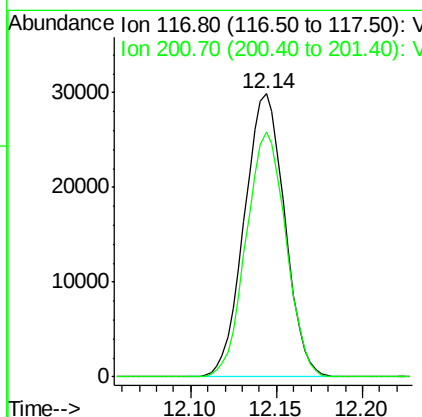
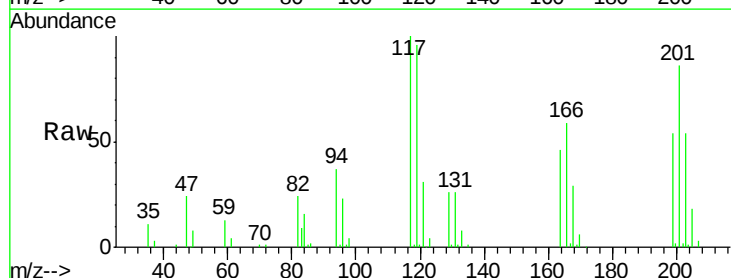
Manual Integrations
APPROVED

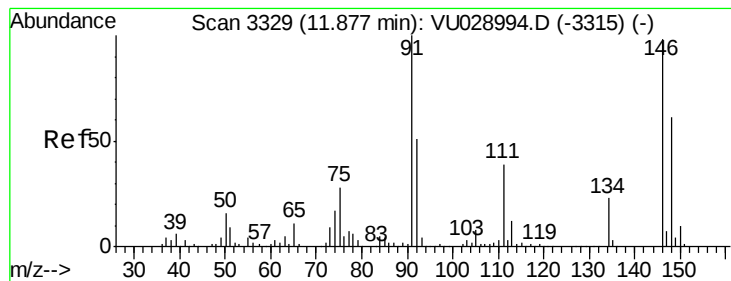
MMDadoda
1/16/2019 9:41:49 AM



#90
Hexachloroethane
Concen: 50.671 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.0	42.4	127.3





#91

1,2-Dichlorobenzene

Concen: 48.874 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

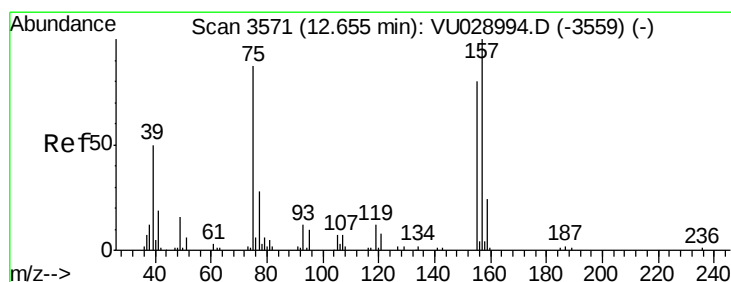
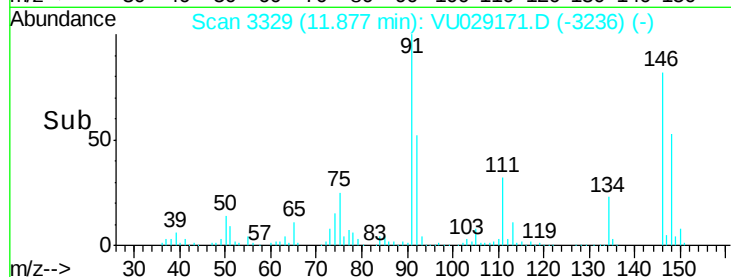
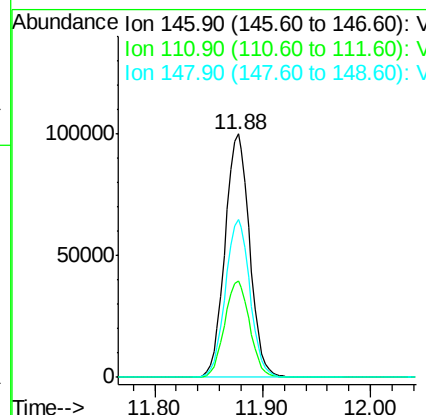
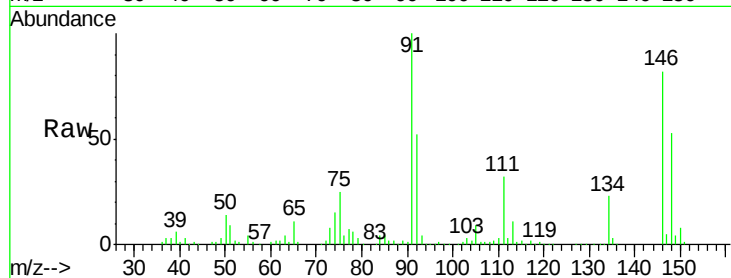
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	159160
Ion Ratio	Lower	Upper	
146	100		
111	40.1	20.0	59.9
148	64.7	31.6	94.8

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.494 ug/l

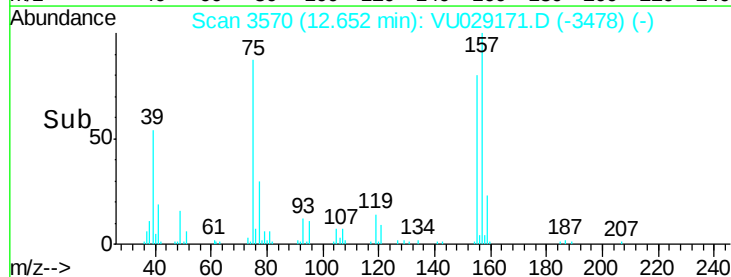
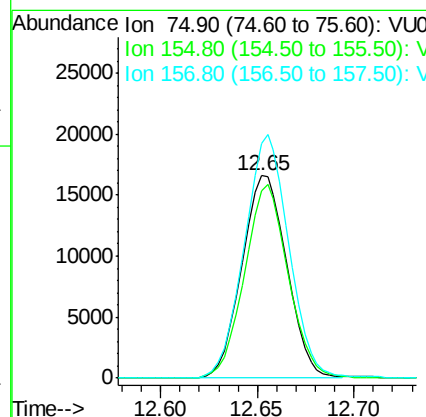
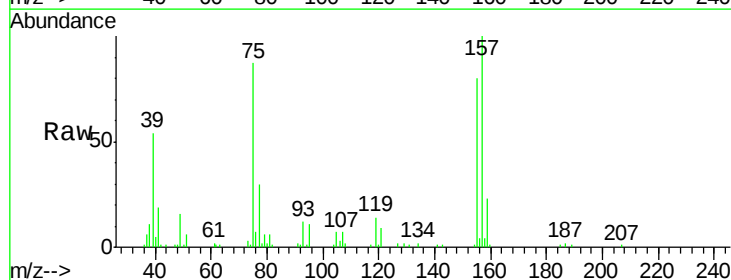
RT: 12.65 min Scan# 3570

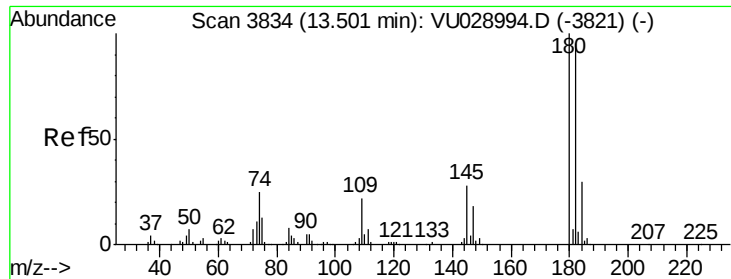
Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tgt Ion:	75	Resp:	26849
Ion Ratio	Lower	Upper	
75	100		
155	92.8	46.3	138.8
157	119.4	57.4	172.0





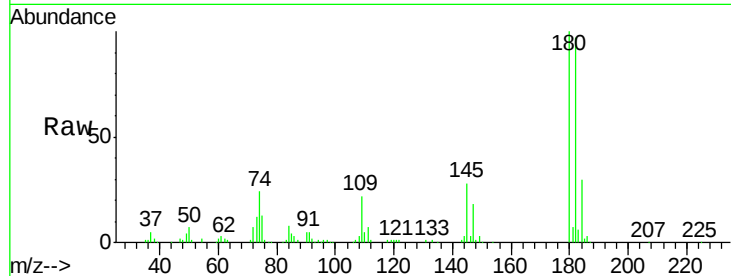
#93
1,2,4-Trichlorobenzene
Concen: 53.329 ug/l
RT: 13.50 min Scan# 3834
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

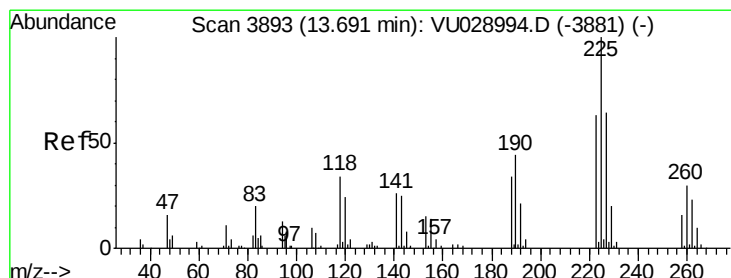
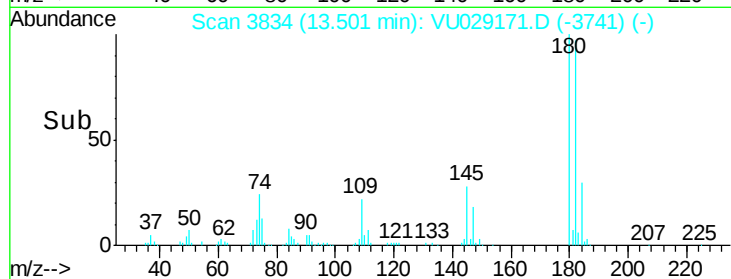
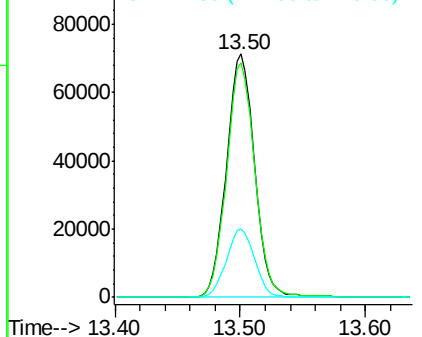
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.5	142.6
145	28.3	14.0	42.0

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM

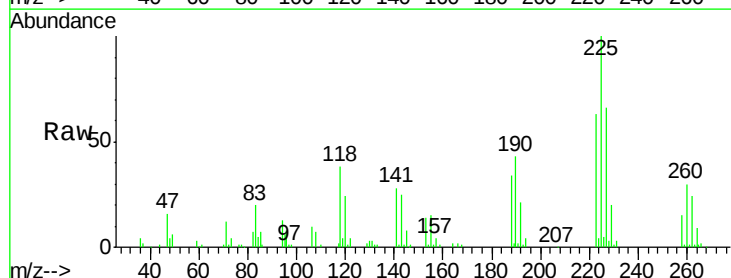


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

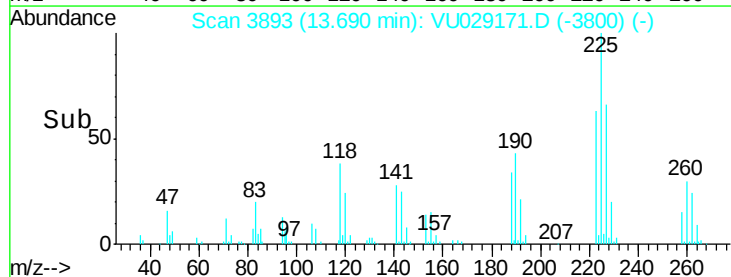
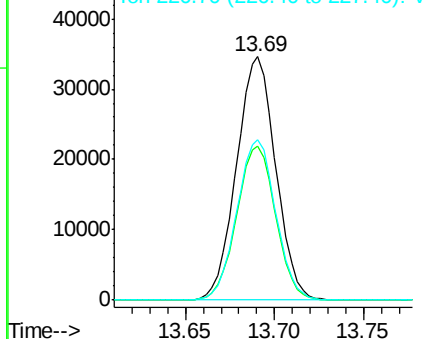


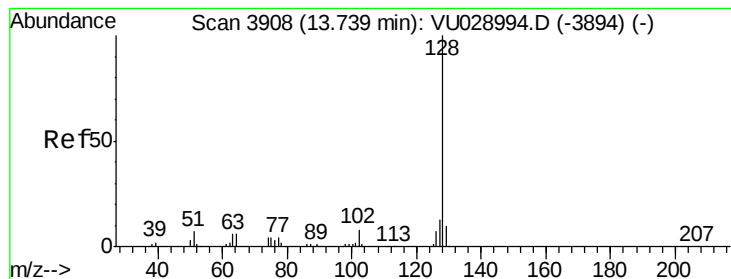
#94
Hexachlorobutadiene
Concen: 55.997 ug/l
RT: 13.69 min Scan# 3893
Delta R.T. -0.00 min
Lab File: VU029171.D
Acq: 15 Jan 2019 09:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.4	94.0
227	65.1	31.9	95.5



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





#95

Naphthalene

Concen: 49.788 ug/l

RT: 13.74 min Scan# 3908

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Instrument :

MSVOA_U

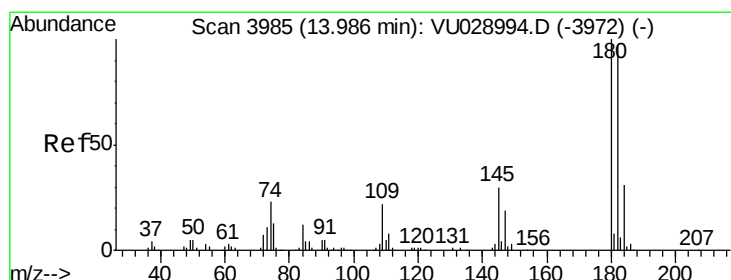
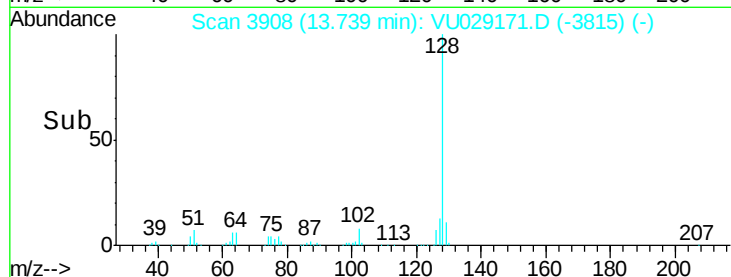
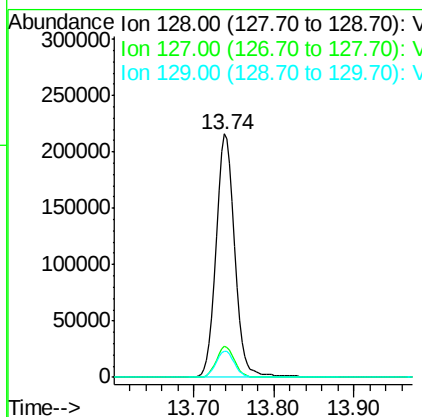
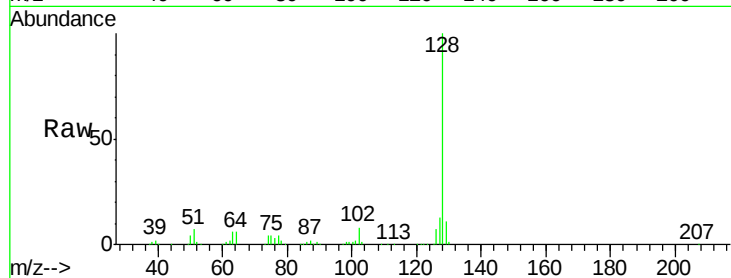
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	352088
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.1	15.1
129	10.6	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:41:49 AM



#96

1,2,3-Trichlorobenzene

Concen: 51.595 ug/l

RT: 13.98 min Scan# 3984

Delta R.T. -0.00 min

Lab File: VU029171.D

Acq: 15 Jan 2019 09:17

Tgt Ion:	180	Resp:	110470
Ion Ratio	Lower	Upper	
180	100		
182	96.9	48.1	144.3
145	29.4	14.8	44.4

