

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012419\
 Data File : VV009257.D
 Acq On : 24 Jan 2019 13:48
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00G/5ML/MSVOA V/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 1/25/2019 10:01:31 AM

Quant Time: Jan 24 14:26:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\82V012219S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 23 01:54:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.73	168	78353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.66	114	130955	50.00	ug/l	0.00
63) Chlorobenzene-d5	8.89	117	122469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.30	152	63658	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.08	65	48863	51.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.28%	
35) Dibromofluoromethane	4.64	113	44573	52.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.62%	
50) Toluene-d8	7.36	98	168432	50.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.56%	
62) 4-Bromofluorobenzene	10.12	95	64762	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	34460	54.373	ug/l 98
3) Chloromethane	1.25	50	43459	50.942	ug/l 99
4) Vinyl Chloride	1.33	62	44784	46.203	ug/l 98
5) Bromomethane	1.53	94	23785	43.269	ug/l 96
6) Chloroethane	1.60	64	22779	42.046	ug/l 96
7) Trichlorofluoromethane	1.76	101	20309	29.855	ug/l 96
8) Diethyl Ether	1.96	74	20081	46.937	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.14	101	37968	44.919	ug/l 97
10) Methyl Iodide	2.26	142	59561	44.149	ug/l 98
11) Tert butyl alcohol	2.66	59	17147	302.331	ug/l 95
12) 1,1-Dichloroethene	2.14	96	37734	45.469	ug/l 93
13) Acrolein	2.06	56	11456	229.962	ug/l 99
14) Allyl chloride	2.42	41	54679	38.229	ug/l 96
15) Acrylonitrile	2.76	53	48227	260.233	ug/l 98
16) Acetone	2.18	43	55443	213.858	ug/l 97
17) Carbon Disulfide	2.32	76	109165	43.002	ug/l 98
18) Methyl Acetate	2.45	43	29923	43.213	ug/l 99
19) Methyl tert-butyl Ether	2.80	73	59678	46.327	ug/l 98
20) Methylene Chloride	2.53	84	39350	45.537	ug/l 99
21) trans-1,2-Dichloroethene	2.78	96	37751	42.222	ug/l 96
22) Diisopropyl ether	3.32	45	129887	42.647	ug/l 88
23) Vinyl Acetate	3.30	43	417926	252.900	ug/l 99
24) 1,1-Dichloroethane	3.22	63	79977	42.208	ug/l 98
25) 2-Butanone	4.01	43	79815	269.228	ug/l 100
26) 2,2-Dichloropropane	3.95	77	42129	39.506	ug/l 96
27) cis-1,2-Dichloroethene	3.95	96	48409	44.799	ug/l 94
28) Bromochloromethane	4.29	49	35347	50.550	ug/l 95
29) Tetrahydrofuran	4.39	42	47650	295.520	ug/l 97
30) Chloroform	4.42	83	80170	42.127	ug/l 96
31) Cyclohexane	4.72	56	72551	41.941	ug/l 95
32) 1,1,1-Trichloroethane	4.65	97	63871	39.820	ug/l 99
36) 1,1-Dichloropropene	4.87	75	62423	42.933	ug/l 100
37) Ethyl Acetate	4.12	43	33454	59.870	ug/l 96
38) Carbon Tetrachloride	4.87	117	60098	41.288	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.17	83	78644	45.677	ug/l	98
40) Benzene	5.14	78	180323	44.343	ug/l	98
41) Methacrylonitrile	4.31	41	18491	54.908	ug/l	96
42) 1,2-Dichloroethane	5.18	62	55914	43.933	ug/l	96
43) Isopropyl Acetate	5.32	43	62539	56.900	ug/l	99
44) Trichloroethene	5.96	130	47087	44.003	ug/l	97
45) 1,2-Dichloropropane	6.22	63	43914	44.894	ug/l	99
46) Dibromomethane	6.35	93	25689	51.182	ug/l	97
47) Bromodichloromethane	6.55	83	58883	44.396	ug/l	100
48) Methyl methacrylate	6.42	41	30458	54.306	ug/l	97
49) 1,4-Dioxane	6.41	88	8533	1334.627	ug/l	86
51) 4-Methyl-2-Pentanone	7.27	43	161812	290.090	ug/l	100
52) Toluene	7.43	92	112606	43.775	ug/l	100
53) t-1,3-Dichloropropene	7.69	75	60358	46.757	ug/l	100
54) cis-1,3-Dichloropropene	7.07	75	68400	46.016	ug/l	99
55) 1,1,2-Trichloroethane	7.88	97	35812	50.641	ug/l	98
56) Ethyl methacrylate	7.83	69	43716	53.059	ug/l	99
57) 1,3-Dichloropropane	8.05	76	62111	48.509	ug/l	98
58) 2-Chloroethyl Vinyl ether	6.94	63	2754	213.895	ug/l	95
59) 2-Hexanone	8.18	43	115569	286.455	ug/l	99
60) Dibromochloromethane	8.29	129	40882	49.374	ug/l	98
61) 1,2-Dibromoethane	8.40	107	35486	51.313	ug/l	98
64) Tetrachloroethene	8.02	164	38727	44.437	ug/l	98
65) Chlorobenzene	8.93	112	123860	43.472	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.02	131	42795	43.948	ug/l	98
67) Ethyl Benzene	9.05	91	215609	42.477	ug/l	100
68) m/p-Xylenes	9.18	106	168875	87.636	ug/l	96
69) o-Xylene	9.59	106	77782	43.538	ug/l	99
70) Styrene	9.60	104	129256	45.333	ug/l	97
71) Bromoform	9.78	173	23666	51.539	ug/l #	98
73) Isopropylbenzene	9.97	105	217841	41.441	ug/l	99
74) N-amyl acetate	9.84	43	51440	52.918	ug/l	96
75) 1,1,2,2-Tetrachloroethane	10.29	83	45897	51.791	ug/l	99
76) 1,2,3-Trichloropropane	10.32	75	36245m	52.005	ug/l	
77) Bromobenzene	10.26	156	50375	44.803	ug/l	95
78) n-propylbenzene	10.40	91	257885	41.383	ug/l	99
79) 2-Chlorotoluene	10.47	91	153463	40.814	ug/l	99
80) 1,3,5-Trimethylbenzene	10.59	105	184292	41.803	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.05	75	12987	52.733	ug/l	98
82) 4-Chlorotoluene	10.58	91	182956	41.311	ug/l	99
83) tert-Butylbenzene	10.91	119	177133	42.196	ug/l	97
84) 1,2,4-Trimethylbenzene	10.96	105	187513	42.164	ug/l	99
85) sec-Butylbenzene	11.13	105	228857	41.624	ug/l	100
86) p-Isopropyltoluene	11.29	119	201924	41.944	ug/l	99
87) 1,3-Dichlorobenzene	11.23	146	100432	43.019	ug/l	98
88) 1,4-Dichlorobenzene	11.32	146	102142	43.279	ug/l	100
89) n-Butylbenzene	11.70	91	193459	41.400	ug/l	99
90) Hexachloroethane	11.95	117	34932	40.804	ug/l	97
91) 1,2-Dichlorobenzene	11.69	146	90147	43.743	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.48	75	7665	51.519	ug/l	94

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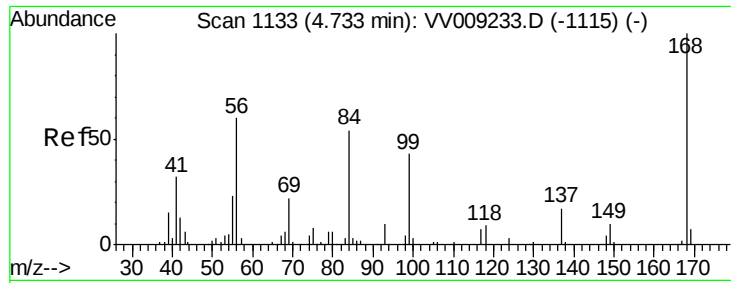
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.31	180	63129	47.586	ug/l	100
94) Hexachlorobutadiene	13.49	225	35958	43.733	ug/l	99
95) Naphthalene	13.55	128	127378	55.530	ug/l	99
96) 1,2,3-Trichlorobenzene	13.79	180	55889	49.750	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.73 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 78353

Ion Ratio Lower Upper

168 100

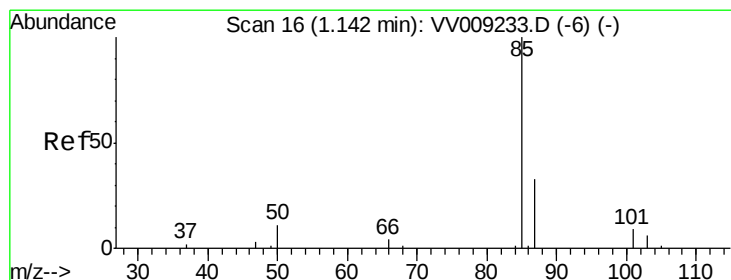
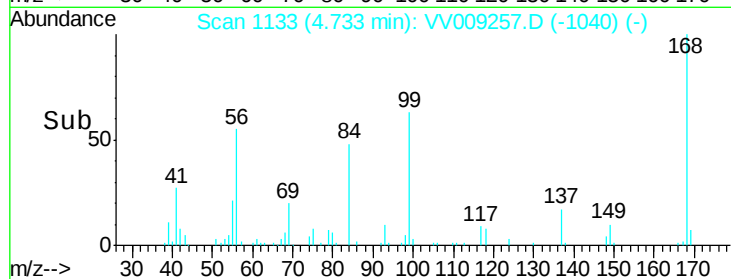
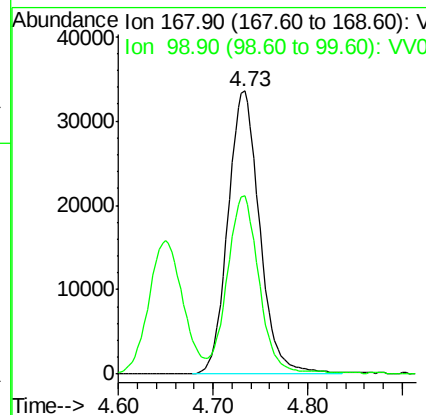
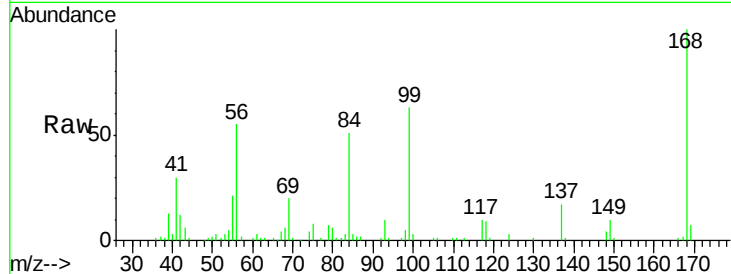
99 62.5 50.9 76.3

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 54.373 ug/l

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV009257.D

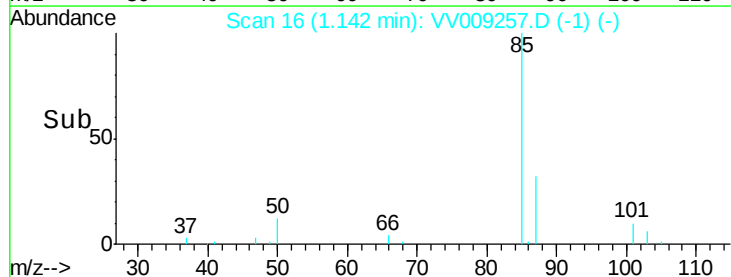
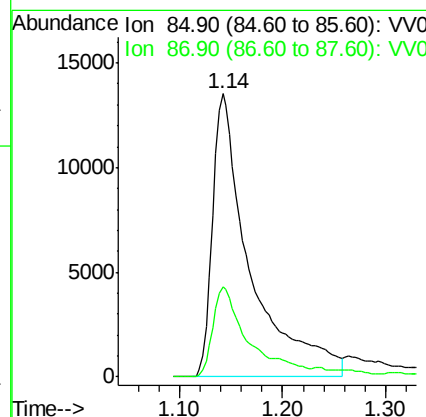
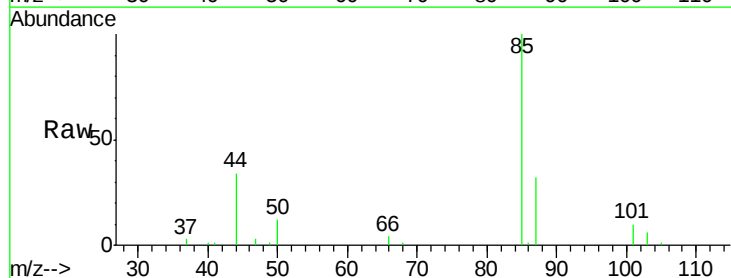
Acq: 24 Jan 2019 13:48

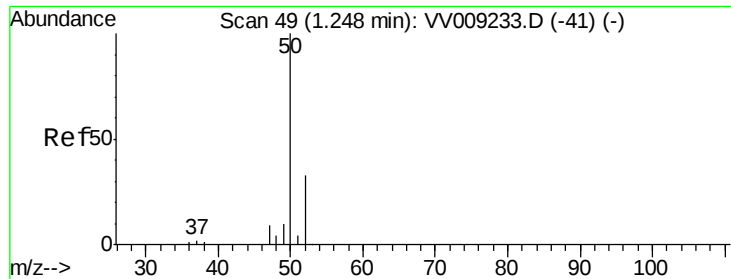
Tgt Ion: 85 Resp: 34460

Ion Ratio Lower Upper

85 100

87 31.9 16.6 49.7





#3

Chloromethane

Concen: 50.942 ug/l

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 43459

Ion Ratio Lower Upper

50 100

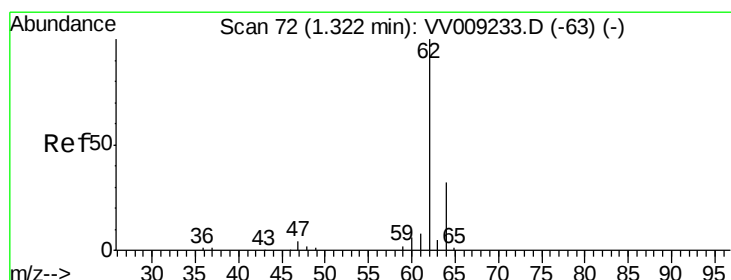
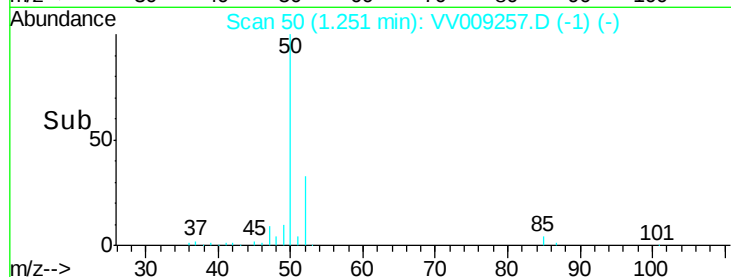
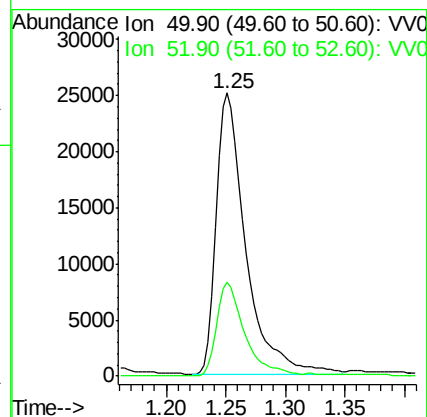
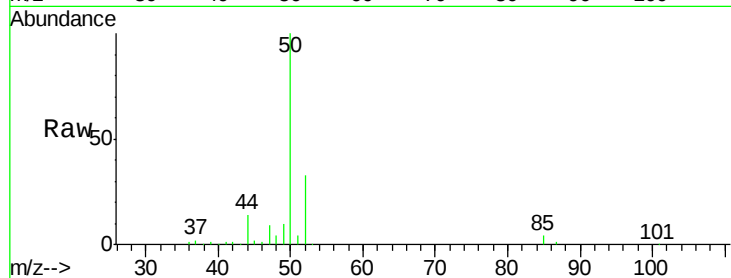
52 33.5 26.3 39.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 46.203 ug/l

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV009257.D

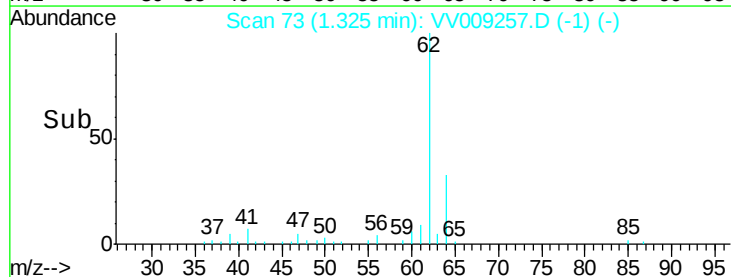
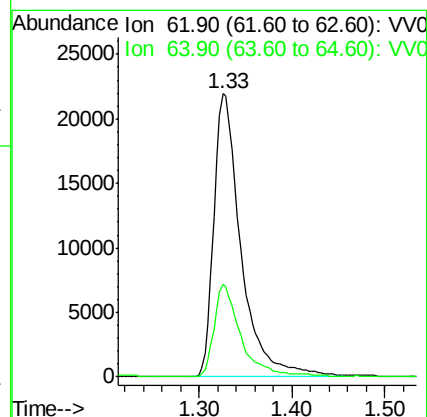
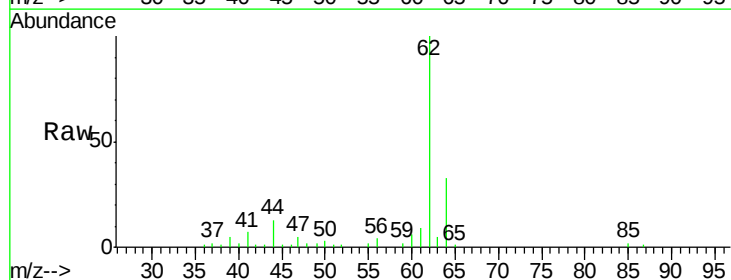
Acq: 24 Jan 2019 13:48

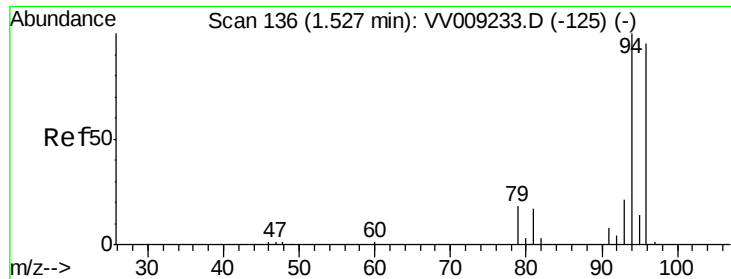
Tgt Ion: 62 Resp: 44784

Ion Ratio Lower Upper

62 100

64 32.9 25.4 38.0





#5

Bromomethane

Concen: 43.269 ug/l

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

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ClientSampleId :

VSTDICCC050

Tot Ion: 94 Resp: 23785

Ion Ratio Lower Upper

94 100

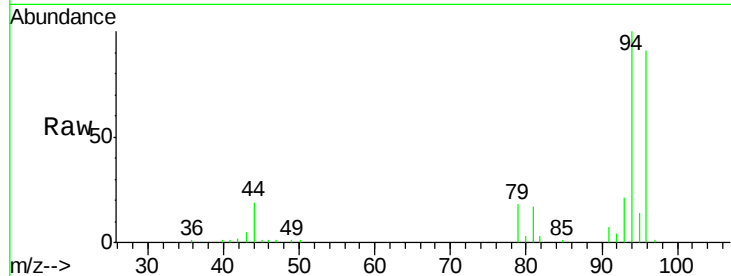
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Manual Integrations

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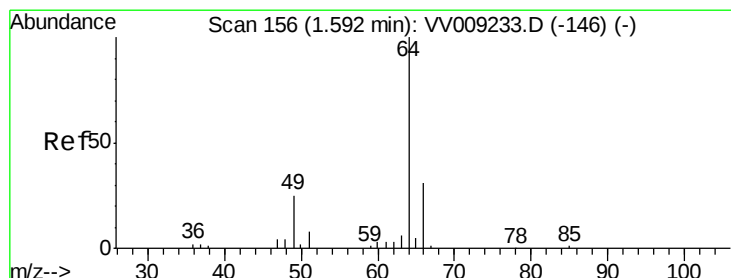
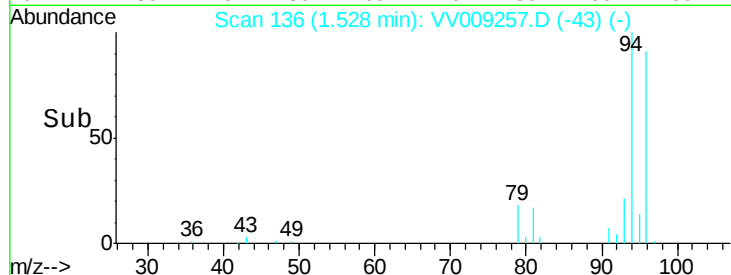
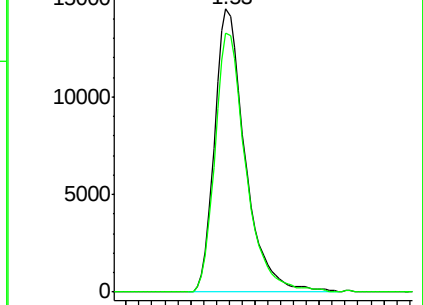
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Abundance Ion 93.90 (93.60 to 94.60): VV009233.D

Ion 95.90 (95.60 to 96.60): VV009257.D



#6

Chloroethane

Concen: 42.046 ug/l

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV009257.D

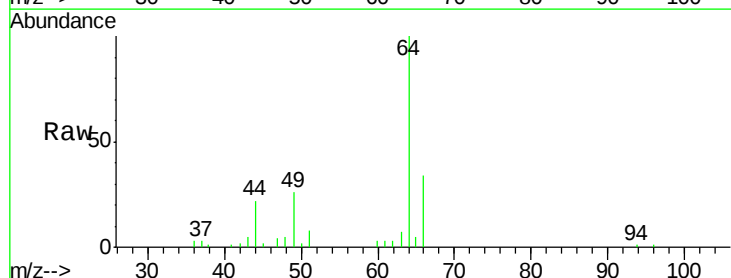
Acq: 24 Jan 2019 13:48

Tgt Ion: 64 Resp: 22779

Ion Ratio Lower Upper

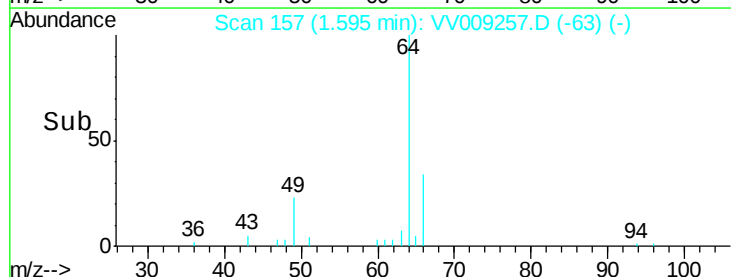
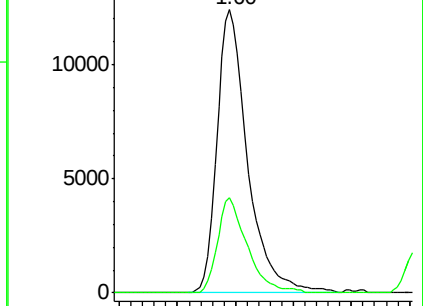
64 100

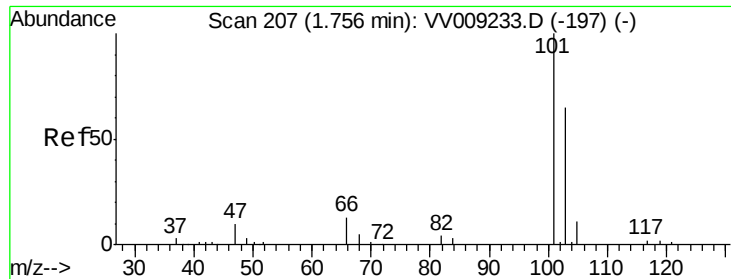
66 33.8 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VV009233.D

Ion 65.90 (65.60 to 66.60): VV009257.D





#7

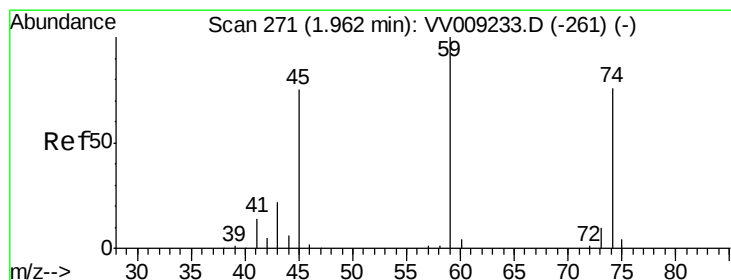
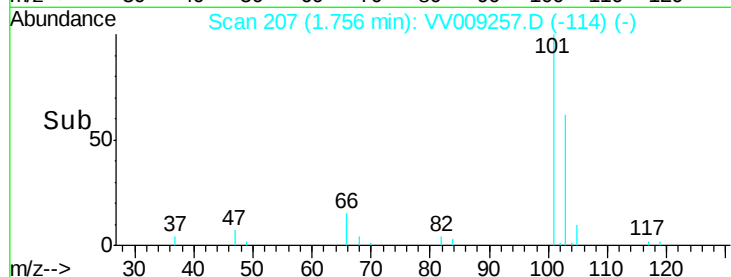
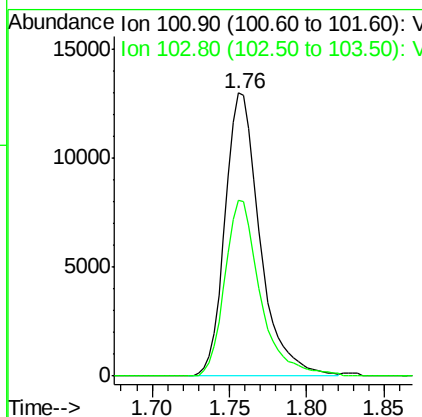
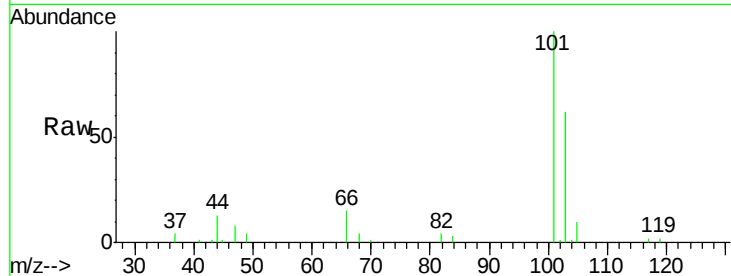
Trichlorofluoromethane
Concen: 29.855 ug/l
RT: 1.76 min Scan# 207
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.3	52.2	78.4

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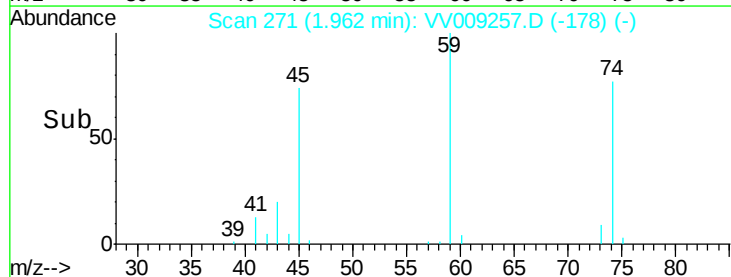
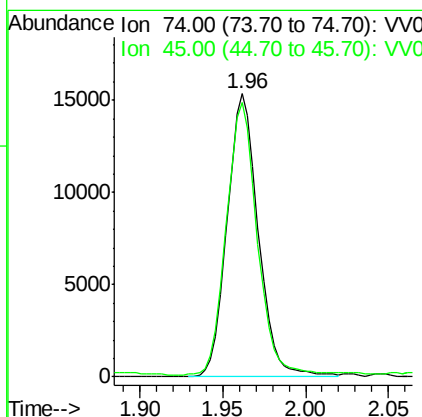
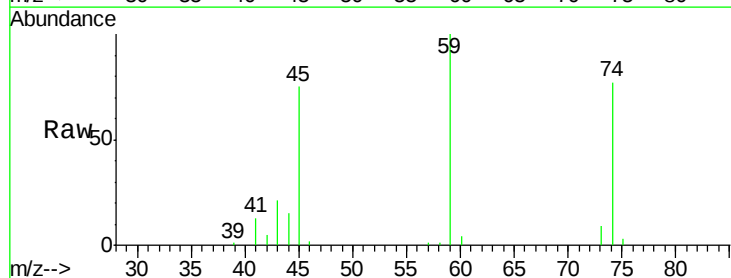
MMDadoda
1/25/2019 10:01:31 AM

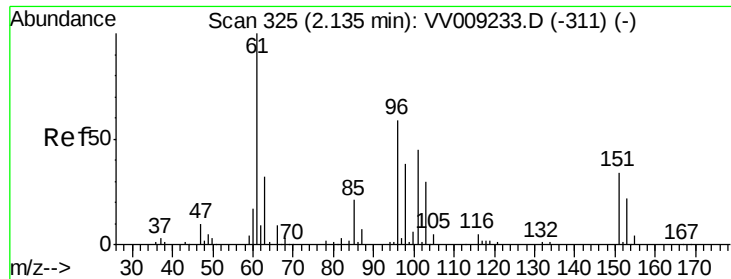


#8

Diethyl Ether
Concen: 46.937 ug/l
RT: 1.96 min Scan# 271
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.8	49.1	147.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 44.919 ug/l

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

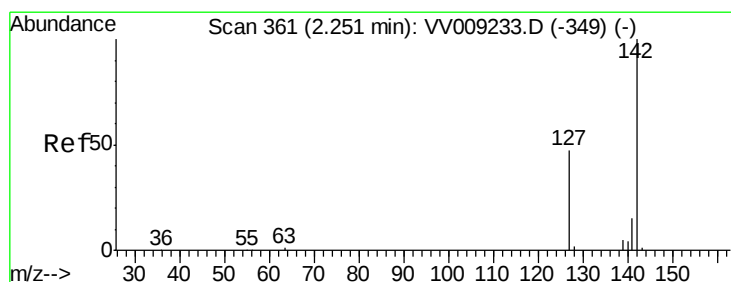
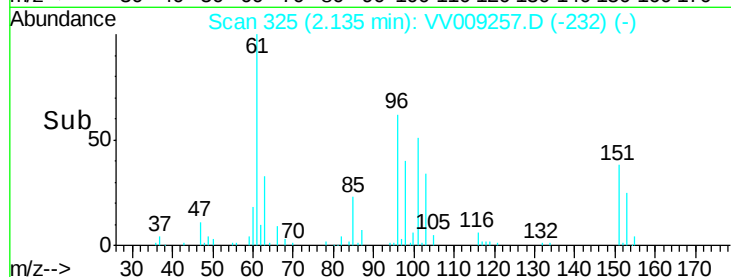
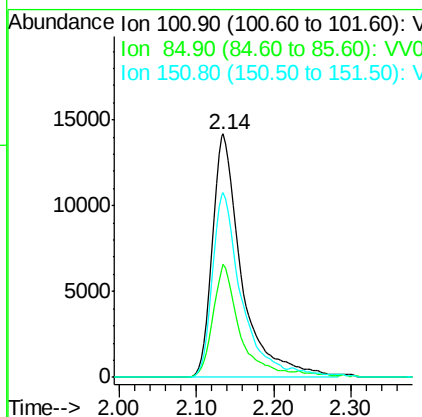
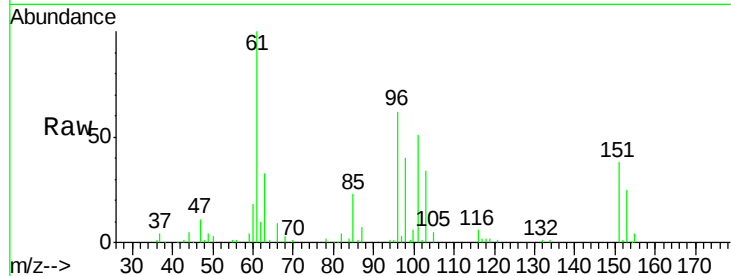
ClientSampleId :

VSTDICCC050

Tot Ion:	101	Resp:	37968
Ion Ratio	Lower	Upper	
101	100		
85	42.2	35.3	52.9
151	72.9	60.1	90.1

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#10

Methyl Iodide

Concen: 44.149 ug/l

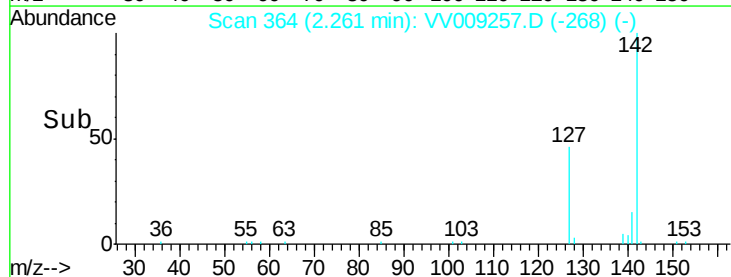
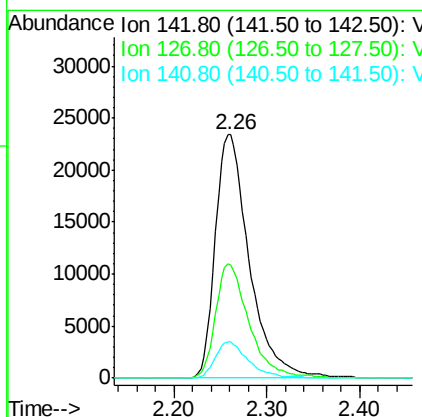
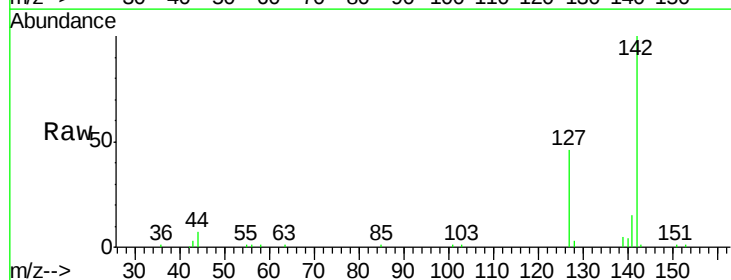
RT: 2.26 min Scan# 364

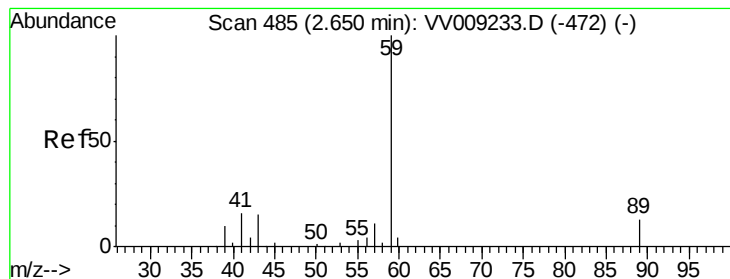
Delta R.T. 0.01 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Tgt Ion:	142	Resp:	59561
Ion Ratio	Lower	Upper	
142	100		
127	46.0	37.9	56.9
141	14.5	11.7	17.5





#11

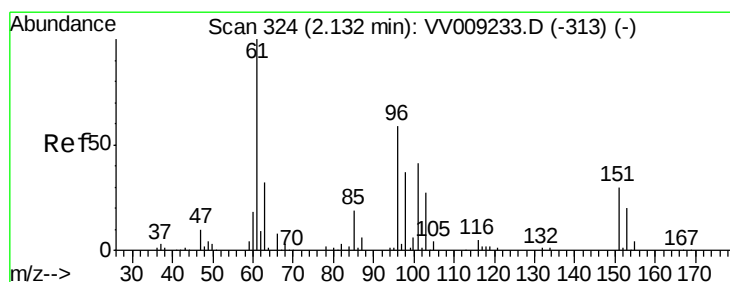
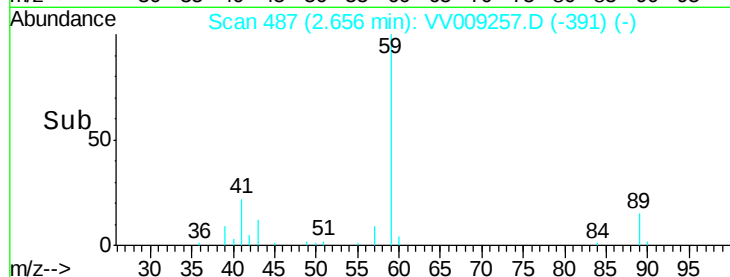
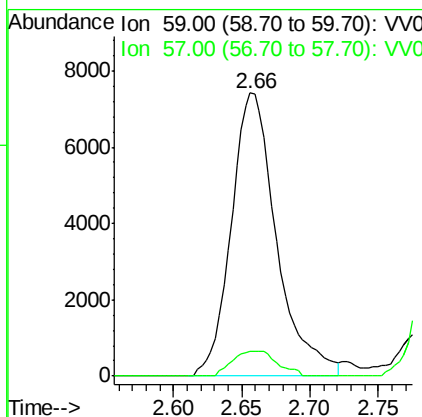
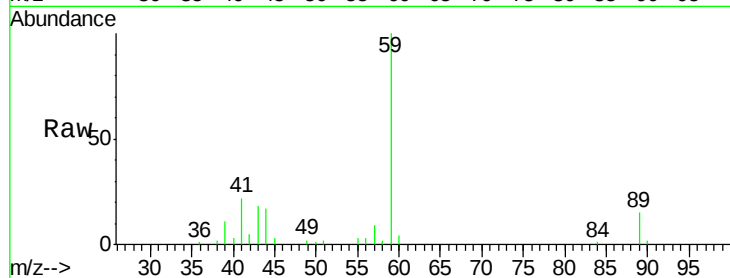
Tert butyl alcohol
Concen: 302.331 ug/l
RT: 2.66 min Scan# 487
Delta R.T. 0.01 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.4	12.6

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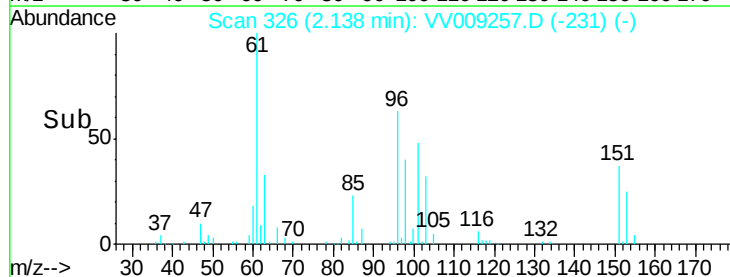
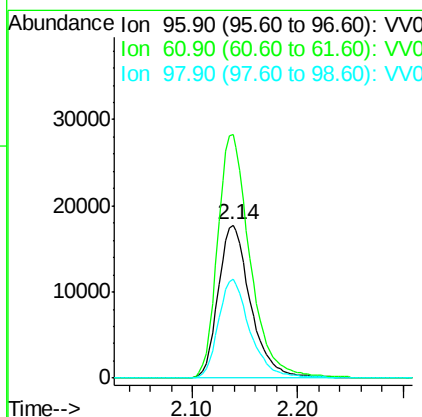
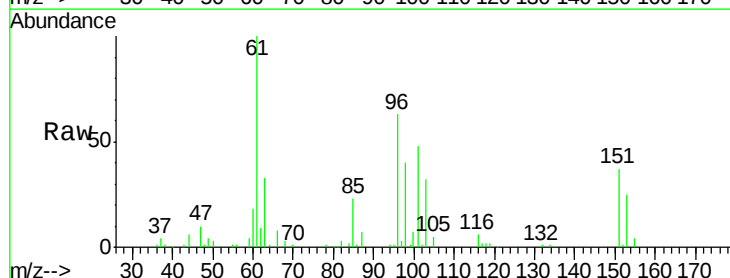
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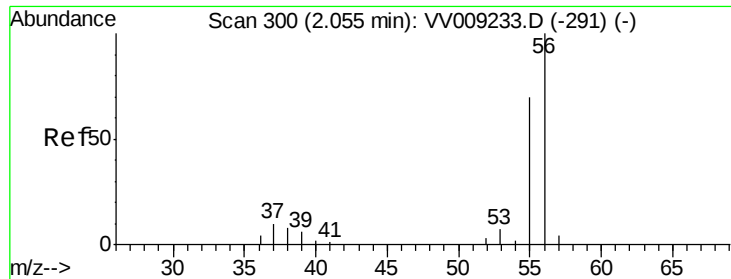


#12

1,1-Dichloroethene
Concen: 45.469 ug/l
RT: 2.14 min Scan# 326
Delta R.T. 0.01 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.0	136.6	205.0
98	64.4	50.6	75.8





#13

Acrolein

Concen: 229.962 ug/l

RT: 2.06 min Scan# 301

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 11456

Ion Ratio Lower Upper

56 100

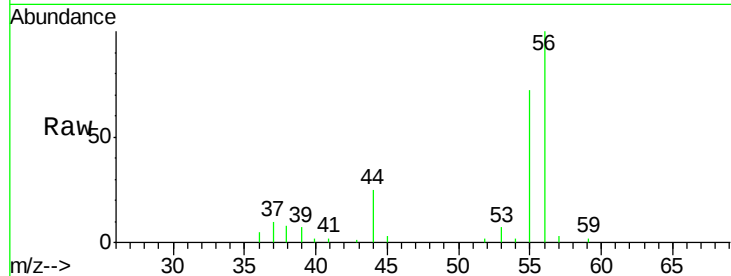
55 68.5 54.0 81.0

Manual Integrations

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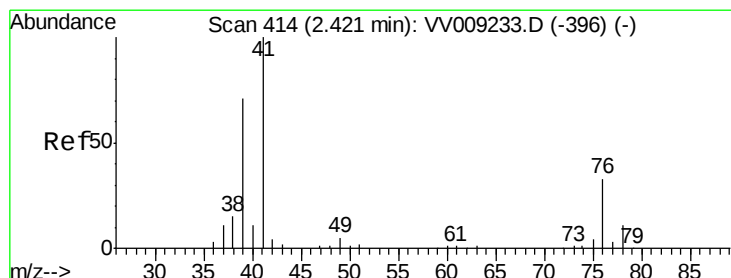
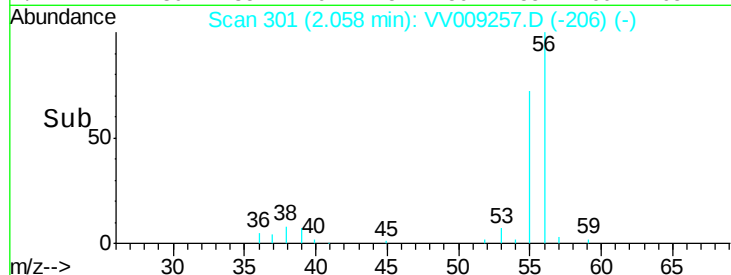
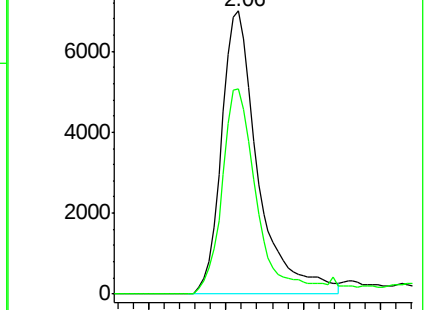
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Abundance Ion 56.00 (55.70 to 56.70): VV009233.D (-291) (-)

Ion 55.00 (54.70 to 55.70): VV009257.D (-206) (-)



#14

Allyl chloride

Concen: 38.229 ug/l

RT: 2.42 min Scan# 413

Delta R.T. -0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

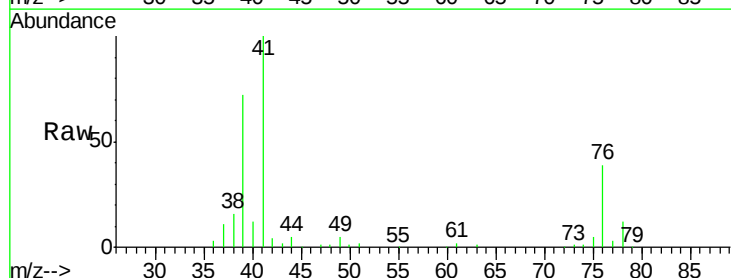
Tgt Ion: 41 Resp: 54679

Ion Ratio Lower Upper

41 100

39 70.5 55.1 82.7

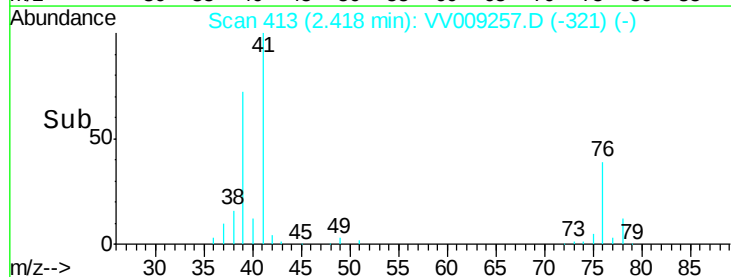
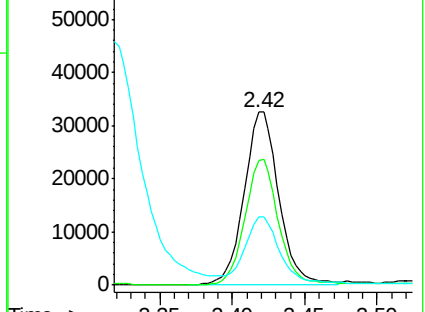
76 38.3 26.7 40.1

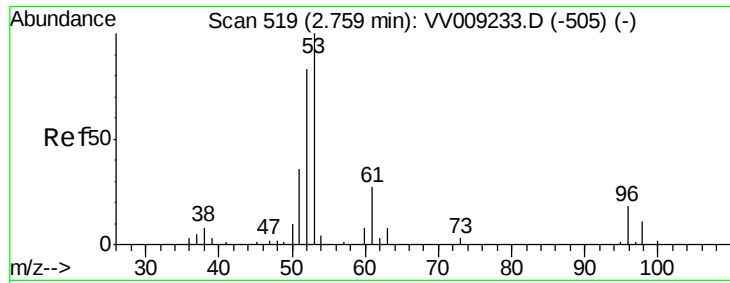


Abundance Ion 41.00 (40.70 to 41.70): VV009233.D (-396) (-)

Ion 39.00 (38.70 to 39.70): VV009257.D (-321) (-)

Ion 75.90 (75.60 to 76.60): VV009257.D (-321) (-)





#15

Acrylonitrile

Concen: 260.233 ug/l

RT: 2.76 min Scan# 519

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

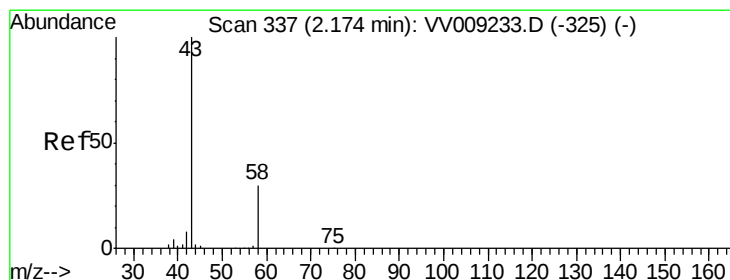
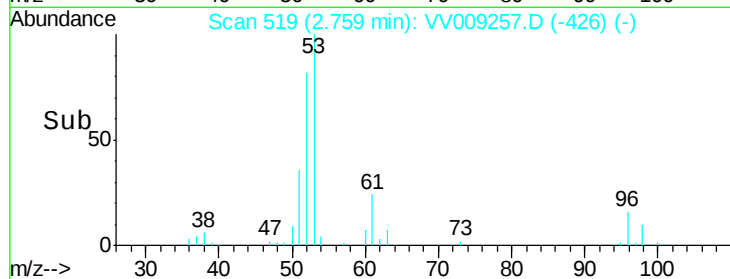
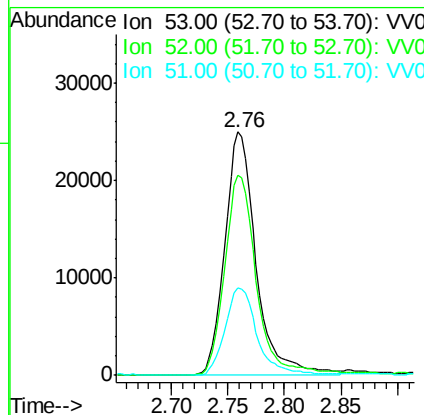
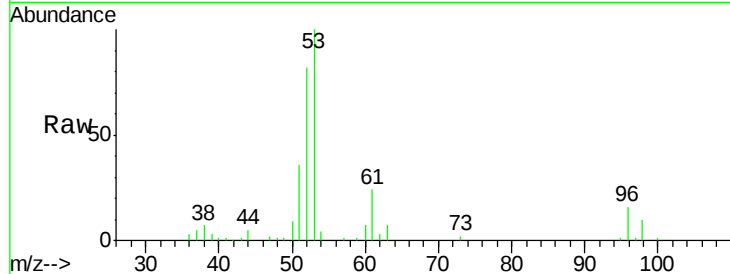
ClientSampleId :

VSTDICCC050

Tot Ion:	53	Resp:	48227
Ion	Ratio	Lower	Upper
53	100		
52	84.0	65.3	97.9
51	37.1	29.0	43.4

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#16

Acetone

Concen: 213.858 ug/l

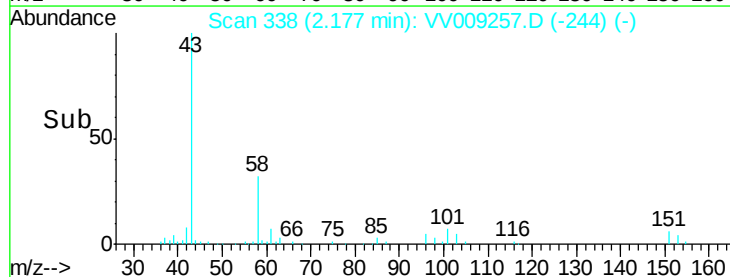
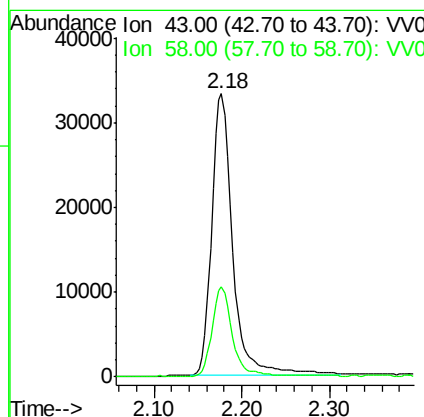
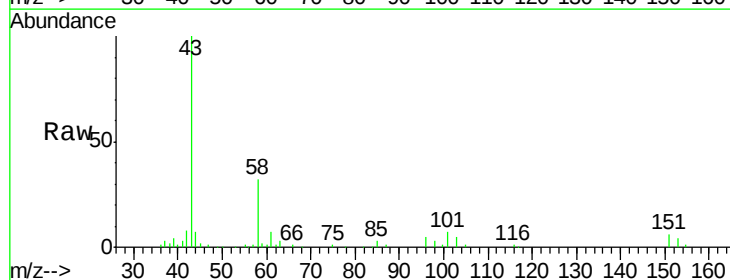
RT: 2.18 min Scan# 338

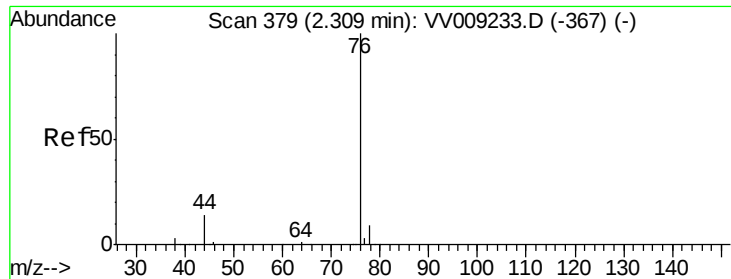
Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Tgt Ion:	43	Resp:	55443
Ion	Ratio	Lower	Upper
43	100		
58	32.2	24.4	36.6





#17

Carbon Disulfide

Concen: 43.002 ug/l

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 76 Resp: 109165

Ion Ratio Lower Upper

76 100

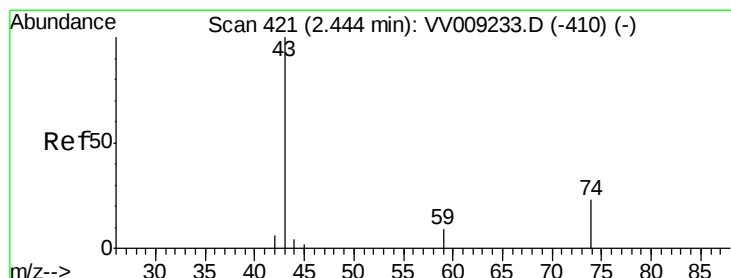
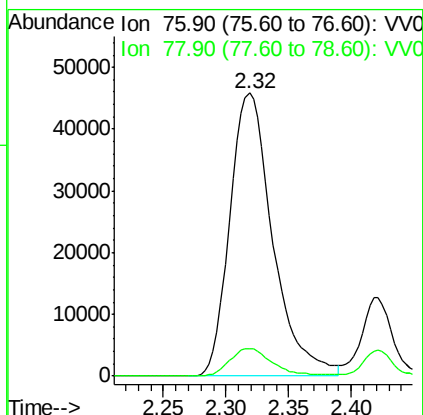
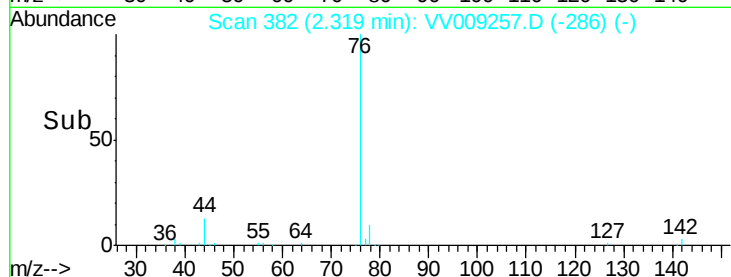
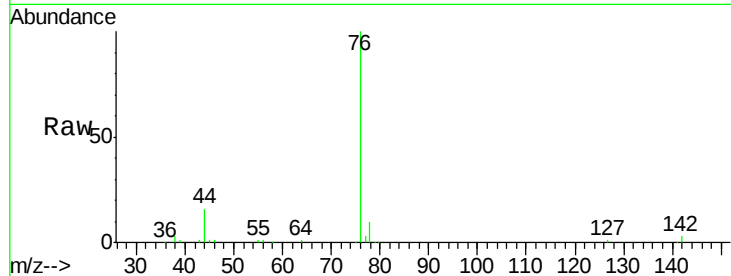
78 9.9 7.3 10.9

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#18

Methyl Acetate

Concen: 43.213 ug/l

RT: 2.45 min Scan# 422

Delta R.T. 0.00 min

Lab File: VV009257.D

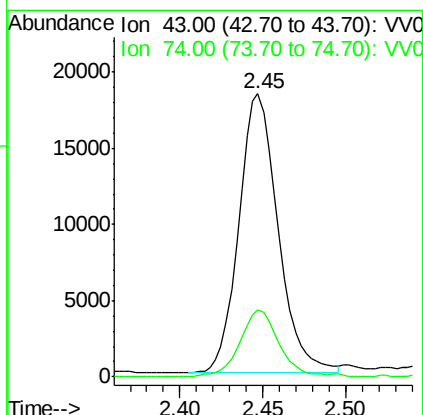
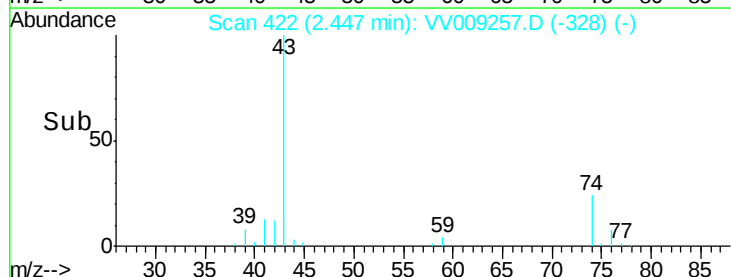
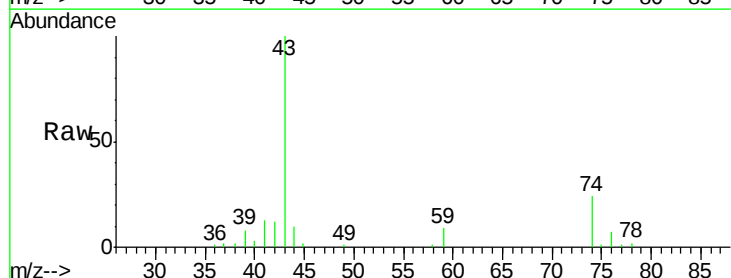
Acq: 24 Jan 2019 13:48

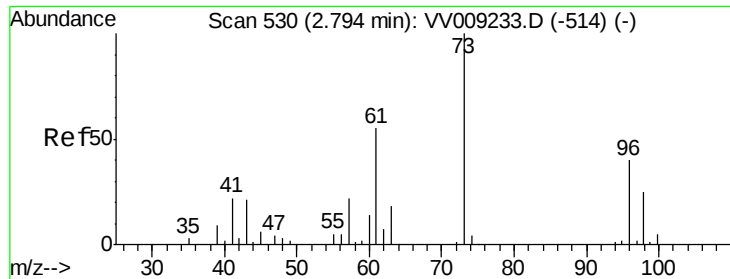
Tgt Ion: 43 Resp: 29923

Ion Ratio Lower Upper

43 100

74 24.3 19.7 29.5





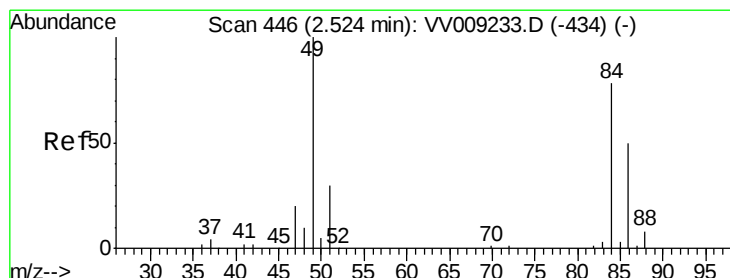
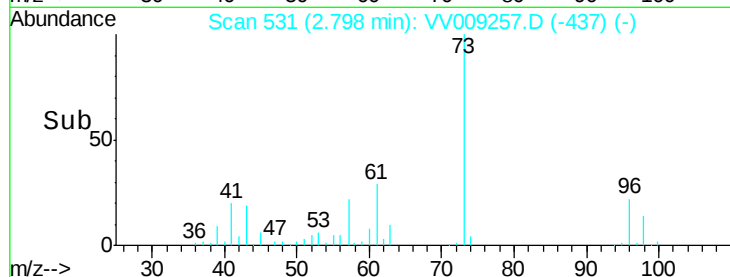
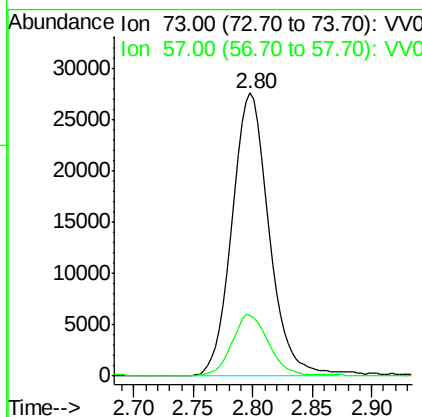
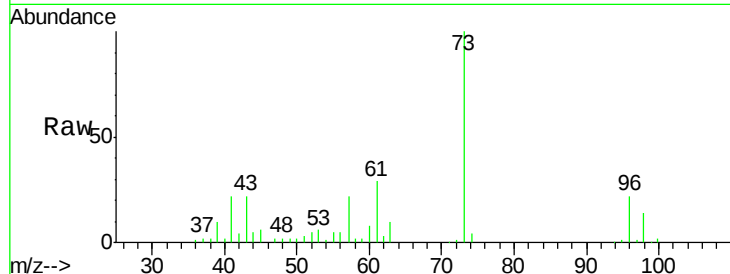
#19
Methvl tert-butvl Ether
Concen: 46.327 ug/l
RT: 2.80 min Scan# 531
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion: 73 Resp: 59678
Ion Ratio Lower Upper
73 100
57 21.6 18.0 27.0

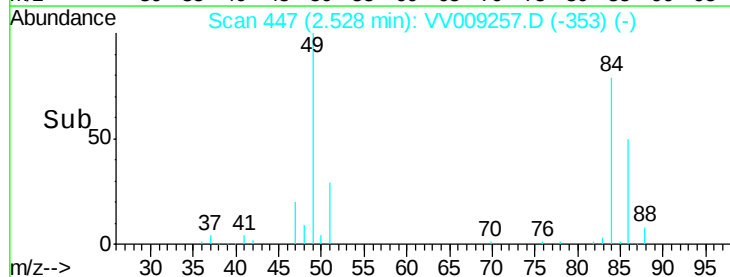
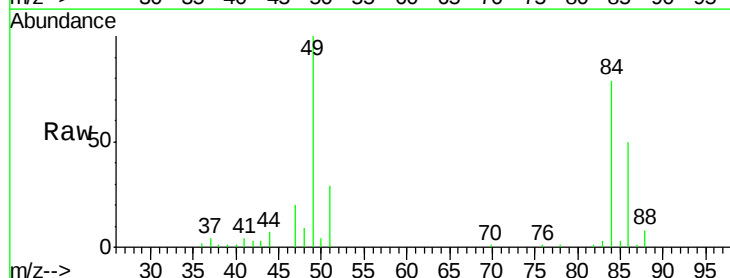
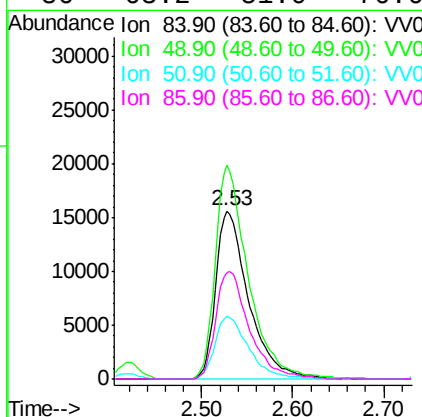
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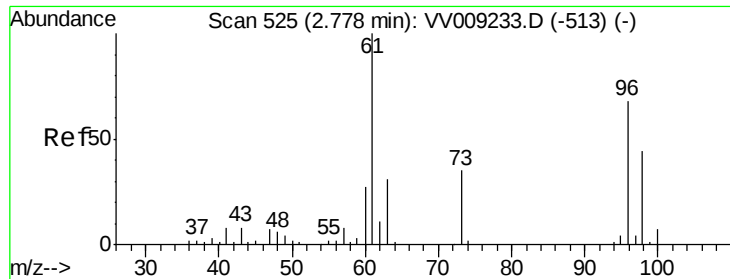
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#20
Methylene Chloride
Concen: 45.537 ug/l
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion: 84 Resp: 39350
Ion Ratio Lower Upper
84 100
49 126.9 102.0 153.0
51 37.0 30.9 46.3
86 63.2 51.0 76.6





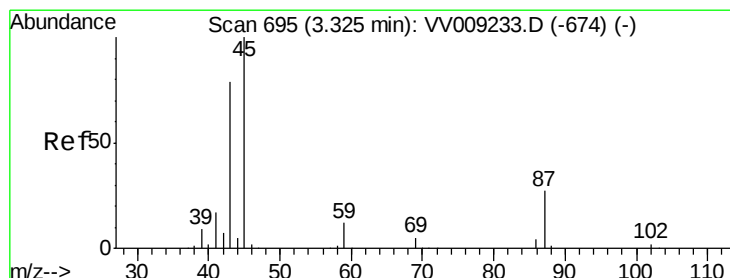
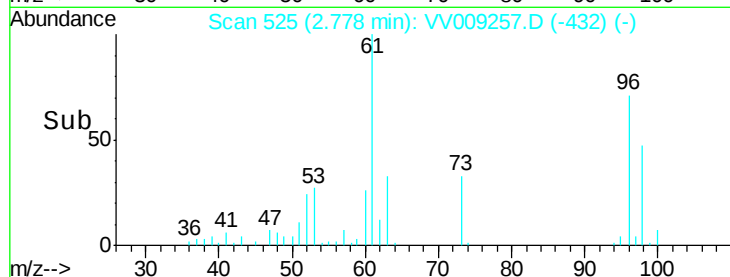
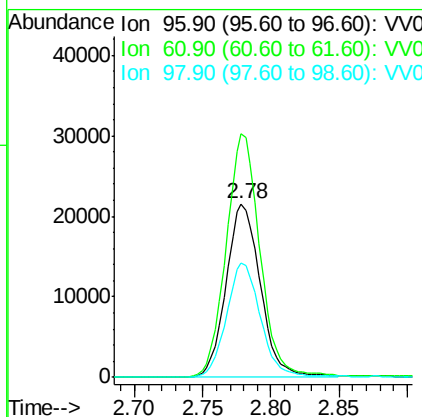
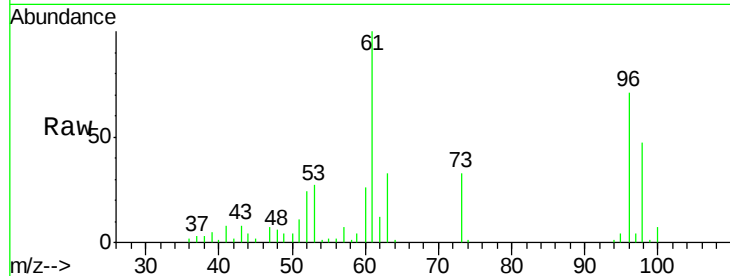
#21
trans-1,2-Dichloroethene
Concen: 42.222 ug/l
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.1	117.7	176.5
98	66.0	51.5	77.3

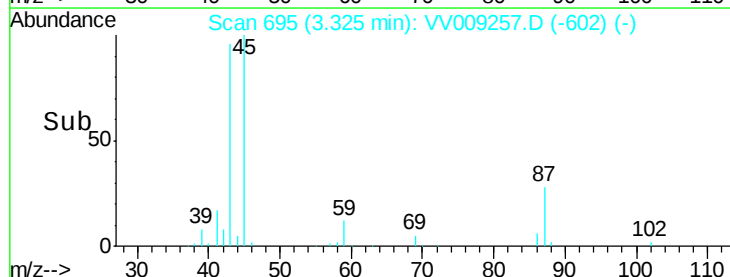
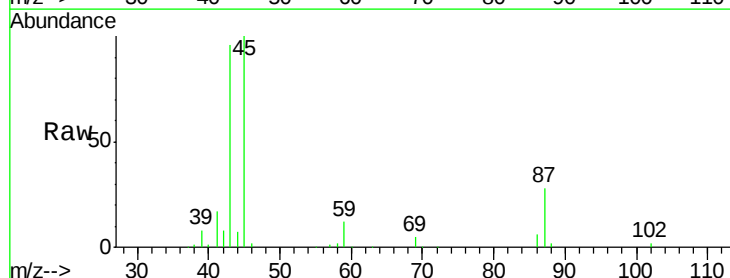
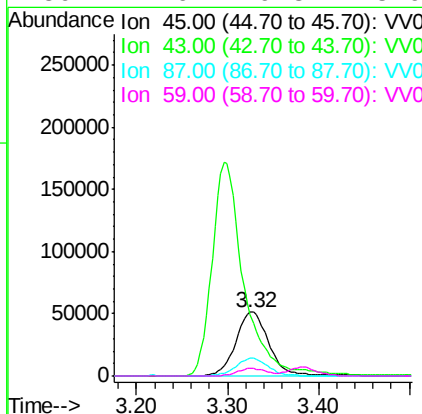
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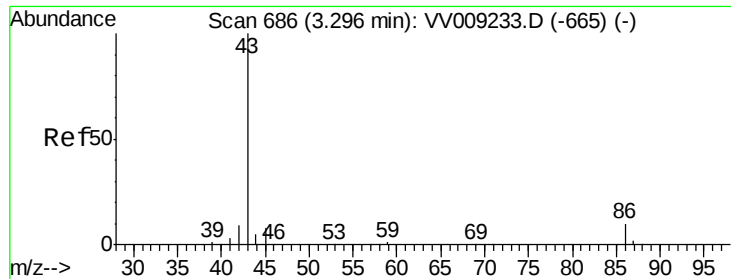
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#22
Diisopropyl ether
Concen: 42.647 ug/l
RT: 3.32 min Scan# 695
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
45	100		
43	94.1	63.0	94.4
87	28.0	21.5	32.3
59	11.6	9.3	13.9





#23

Vinyl Acetate

Concen: 252.900 ug/l

RT: 3.30 min Scan# 686

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 417926

Ion Ratio Lower Upper

43 100

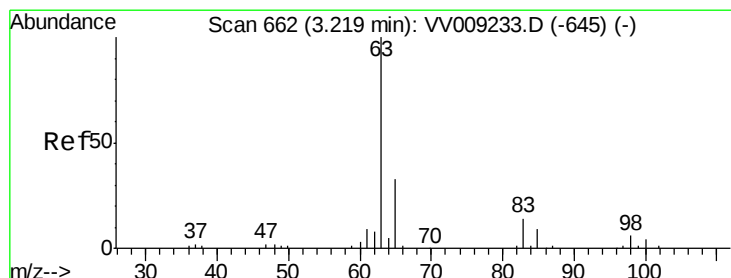
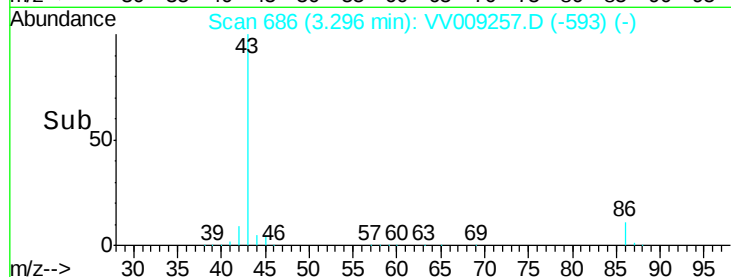
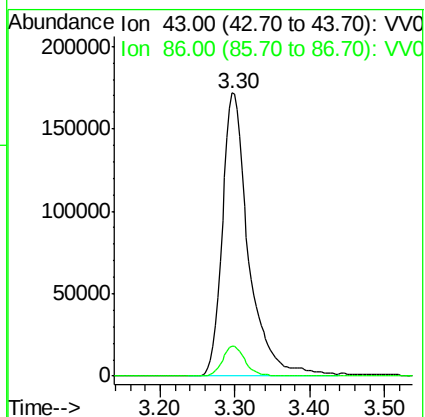
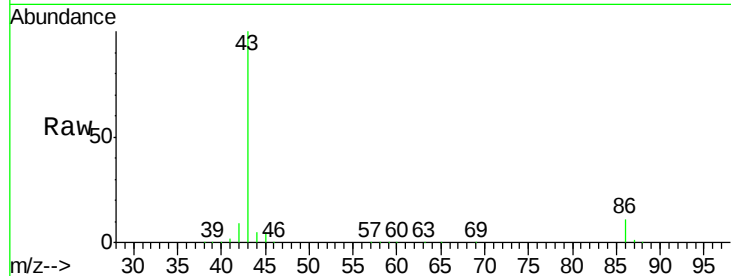
86 10.6 8.1 12.1

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#24

1,1-Dichloroethane

Concen: 42.208 ug/l

RT: 3.22 min Scan# 661

Delta R.T. -0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

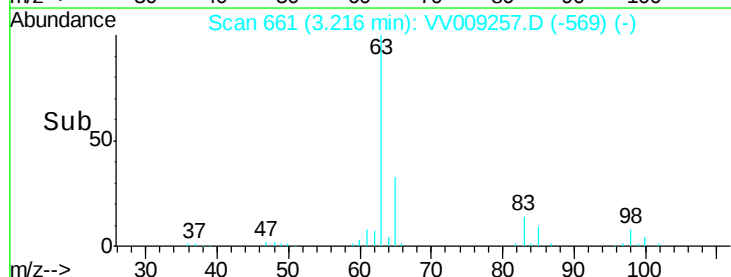
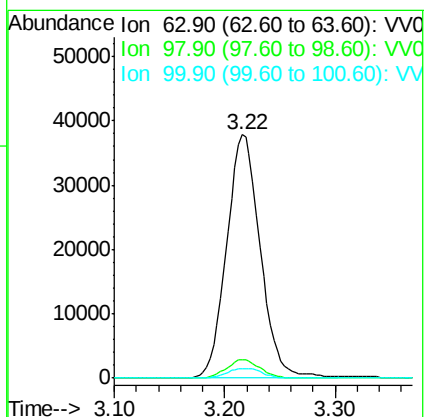
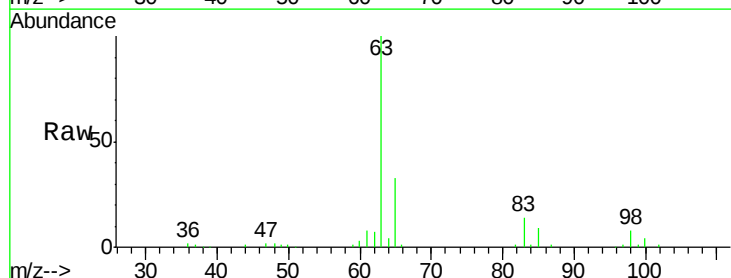
Tgt Ion: 63 Resp: 79977

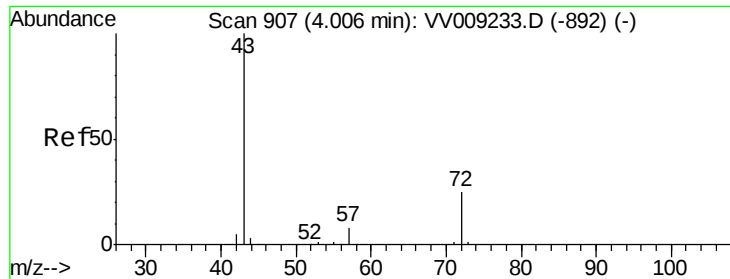
Ion Ratio Lower Upper

63 100

98 7.6 3.3 9.8

100 4.0 2.2 6.6





#25

2-Butanone

Concen: 269.228 ug/l

RT: 4.01 min Scan# 909

Delta R.T. 0.01 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 79815

Ion Ratio Lower Upper

43 100

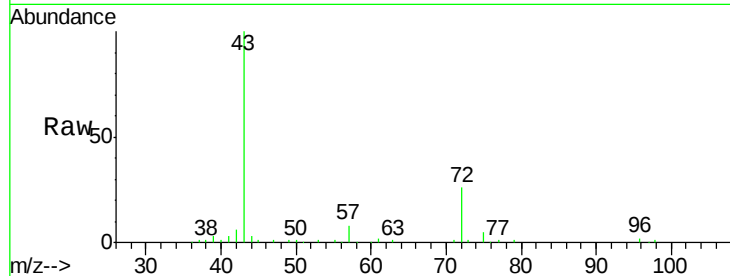
72 25.3 20.2 30.4

Manual Integrations

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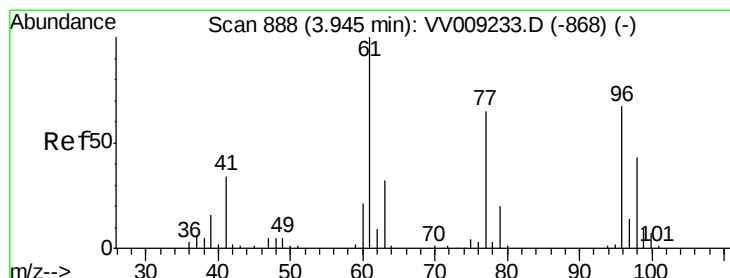
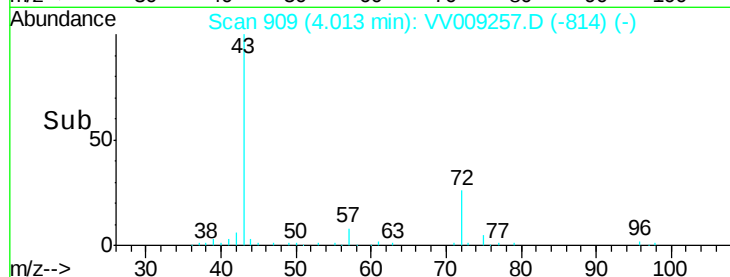
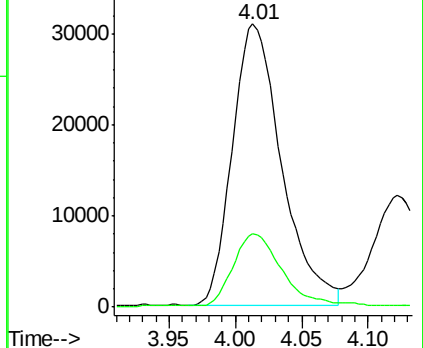
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VV009233.D (-892) (-)

Ion 72.00 (71.70 to 72.70): VV009233.D (-892) (-)



#26

2,2-Dichloropropane

Concen: 39.506 ug/l

RT: 3.95 min Scan# 888

Delta R.T. 0.00 min

Lab File: VV009257.D

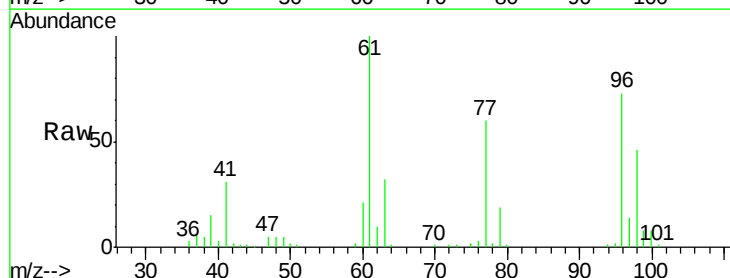
Acq: 24 Jan 2019 13:48

Tgt Ion: 77 Resp: 42129

Ion Ratio Lower Upper

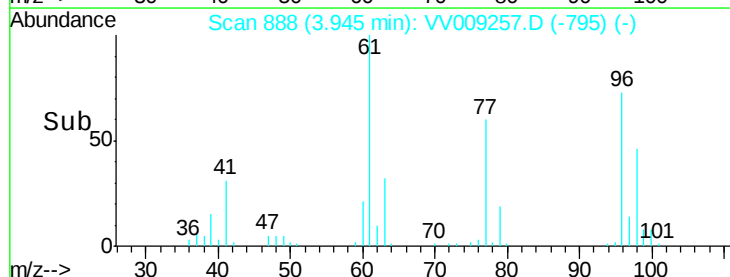
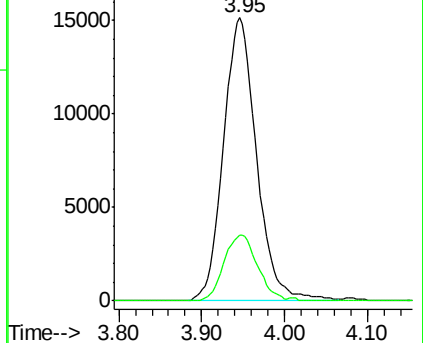
77 100

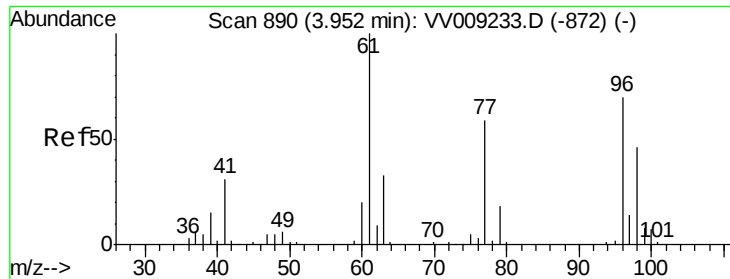
97 23.4 10.9 32.6



Abundance Ion 76.90 (76.60 to 77.60): VV009233.D (-868) (-)

Ion 96.90 (96.60 to 97.60): VV009233.D (-868) (-)





#27

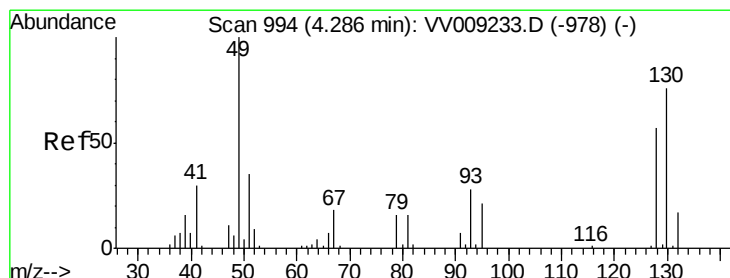
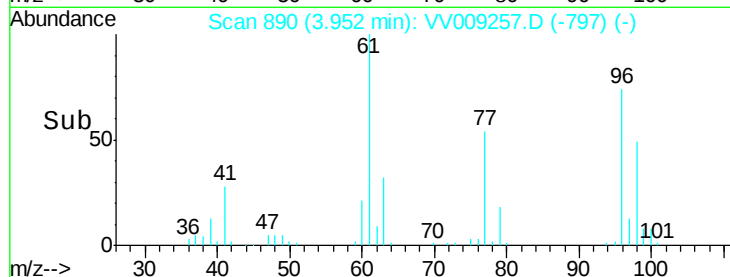
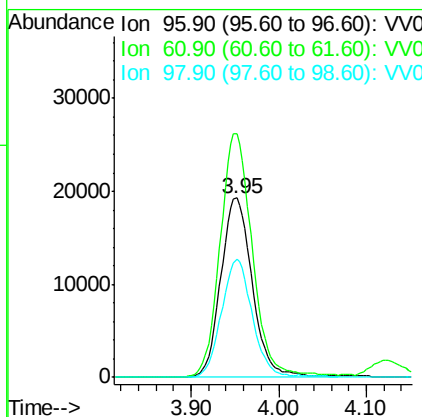
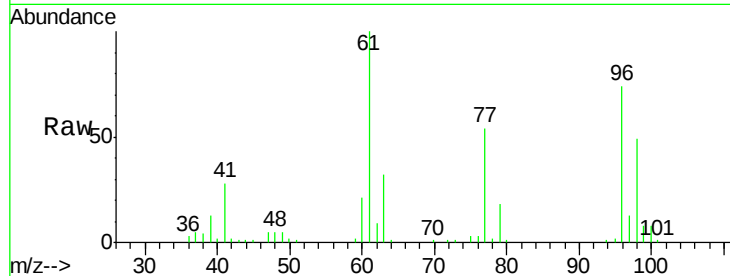
cis-1,2-Dichloroethene
Concen: 44.799 ug/l
RT: 3.95 min Scan# 890
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	48409		
61	138.8		0.0	296.4
98	63.8		0.0	130.0

Manual Integrations
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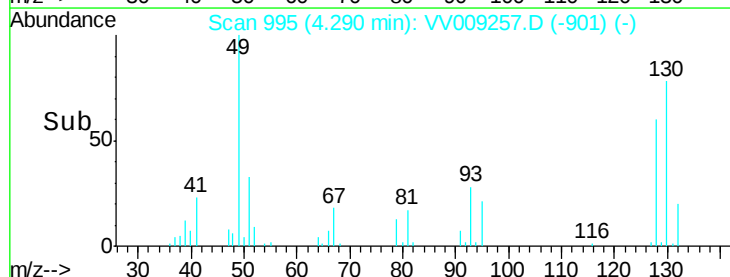
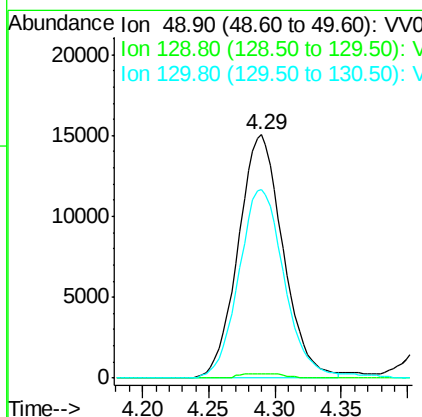
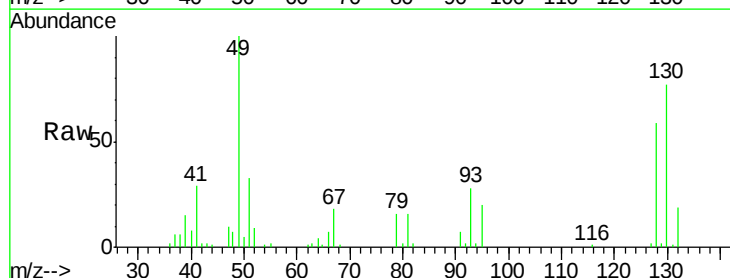
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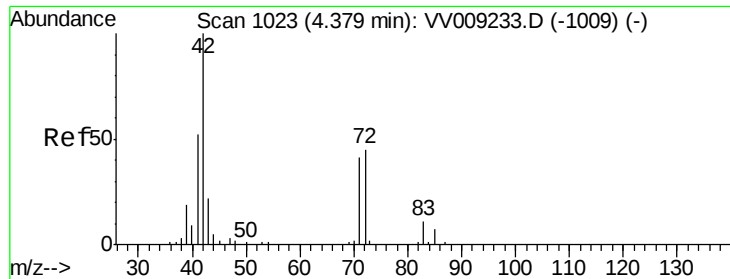


#28

Bromochloromethane
Concen: 50.550 ug/l
RT: 4.29 min Scan# 995
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	35347		
129	1.8		0.0	3.6
130	79.8		60.2	90.4





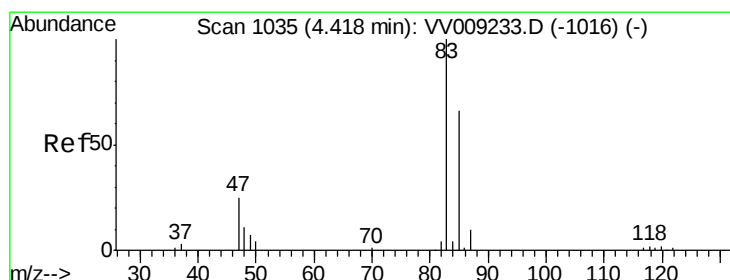
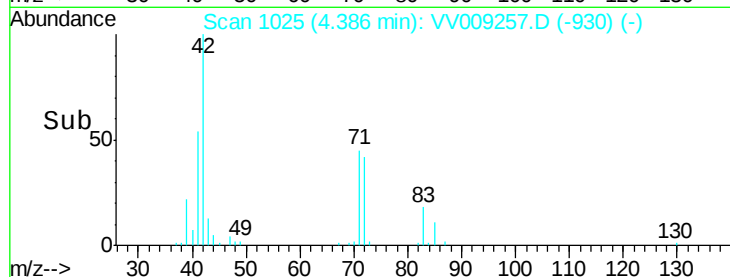
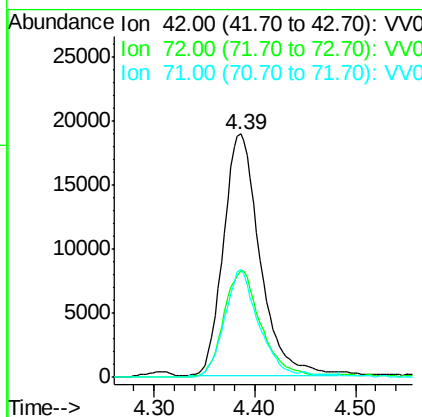
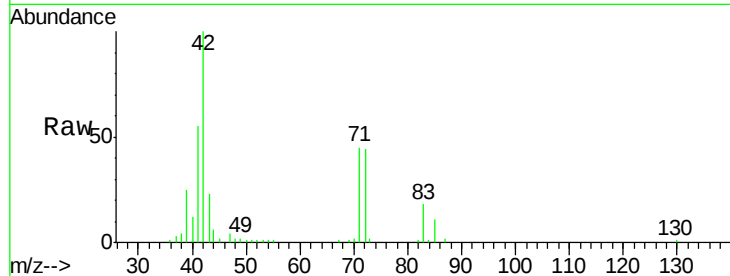
#29
Tetrahydrofuran
Concen: 295.520 ug/l
RT: 4.39 min Scan# 1025
Delta R.T. 0.01 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.0	37.7	56.5
71	41.6	31.5	47.3

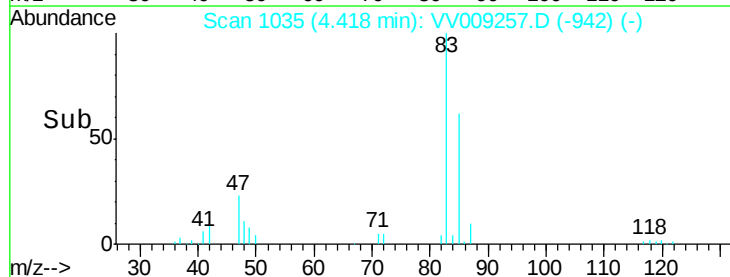
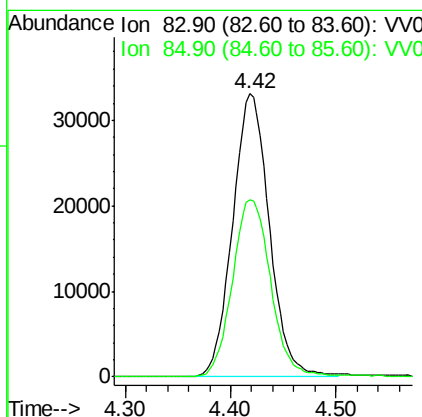
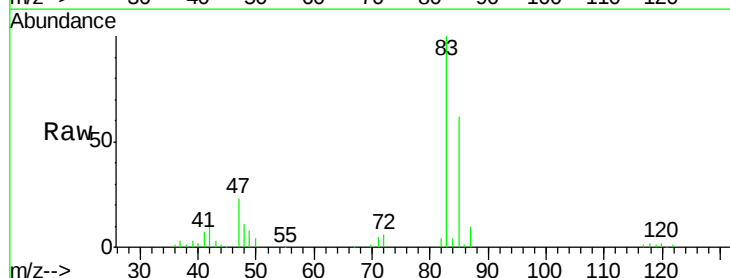
Manual Integrations
APPROVED

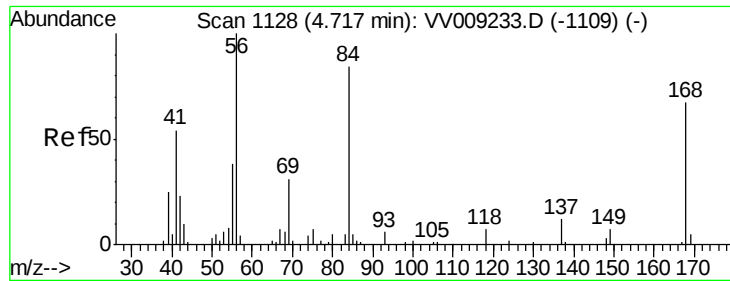
MMDadoda
1/25/2019 10:01:31 AM



#30
Chloroform
Concen: 42.127 ug/l
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.6	79.0





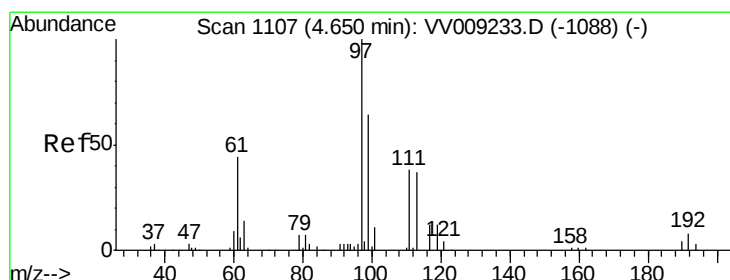
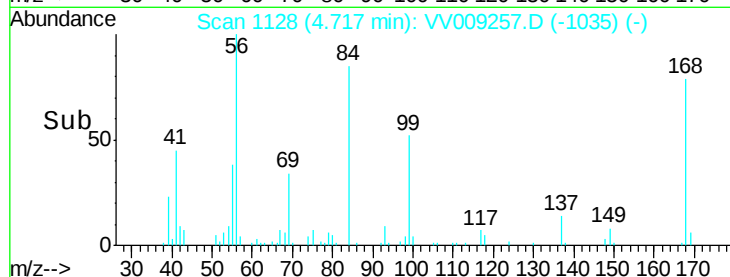
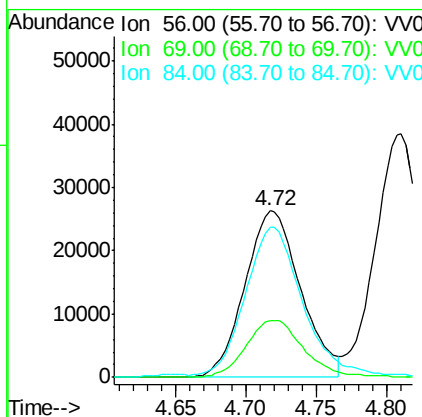
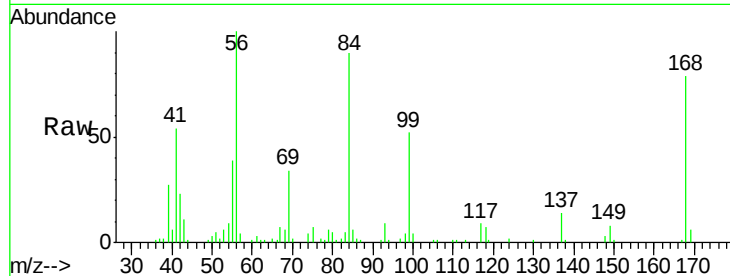
#31
Cyclohexane
Concen: 41.941 ug/l
RT: 4.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.4	25.1	37.7
84	88.6	67.3	100.9

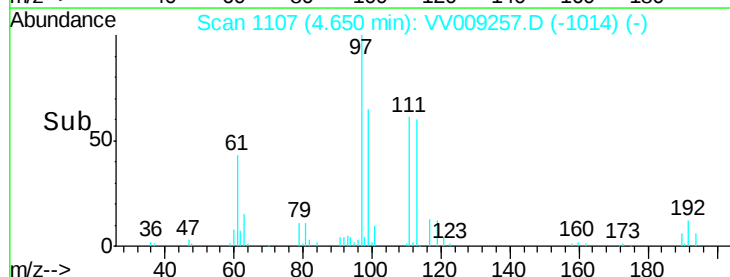
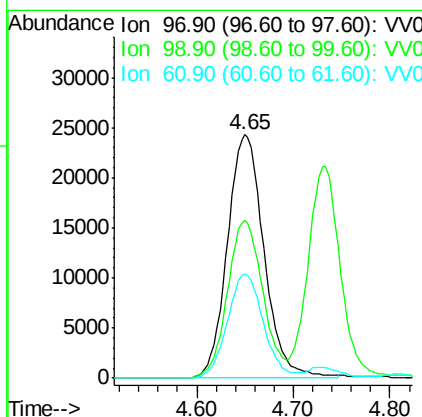
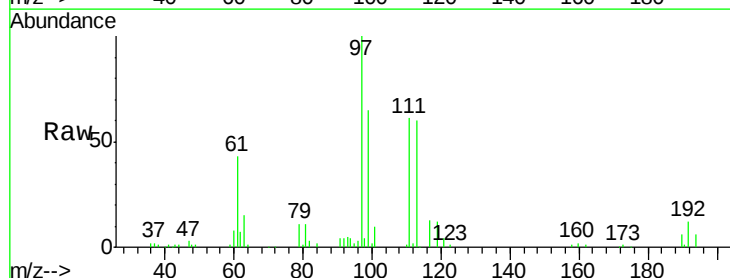
Manual Integrations
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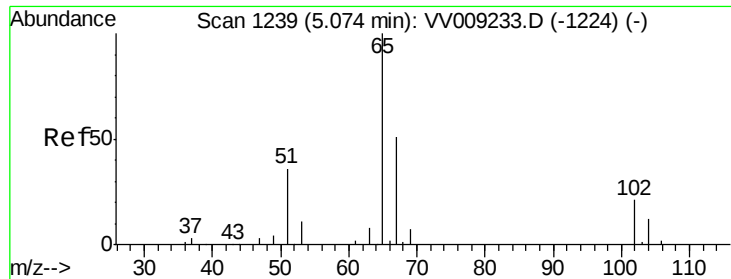
MMDadoda
1/25/2019 10:01:31 AM



#32
1,1,1-Trichloroethane
Concen: 39.820 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.3	50.2	75.2
61	41.7	34.7	52.1





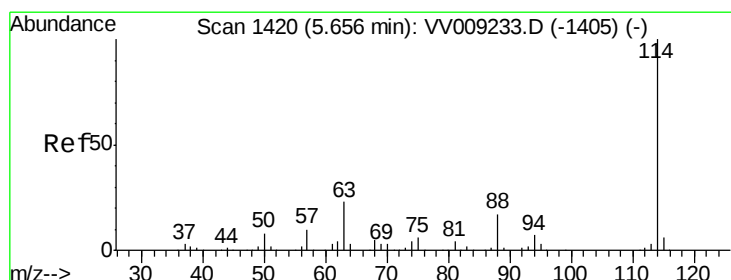
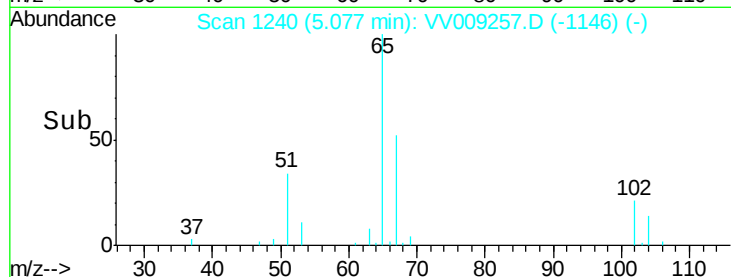
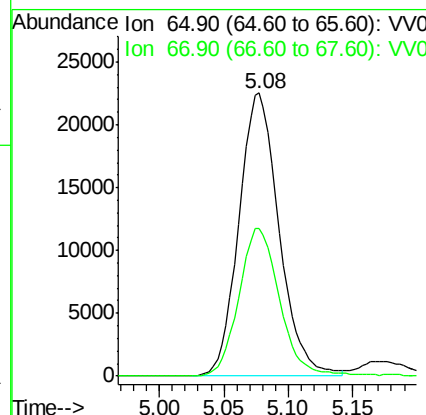
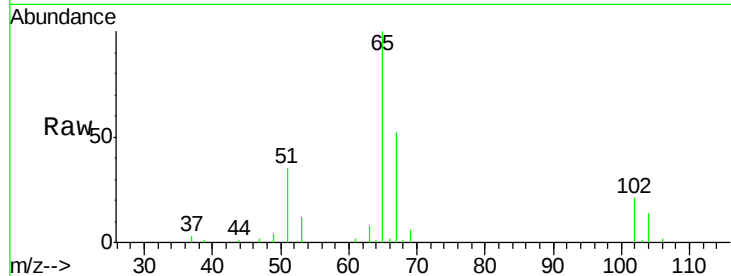
#33
 1,2-Dichloroethane-d4
 Concen: 51.137 ug/l
 RT: 5.08 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	102.8

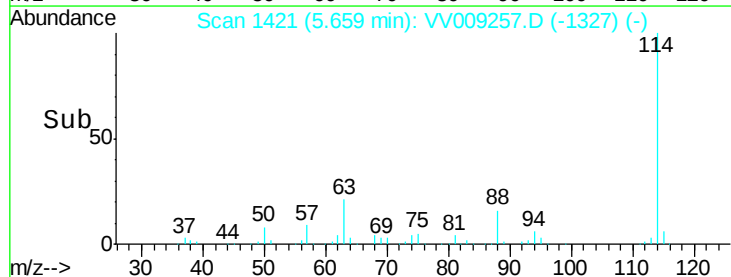
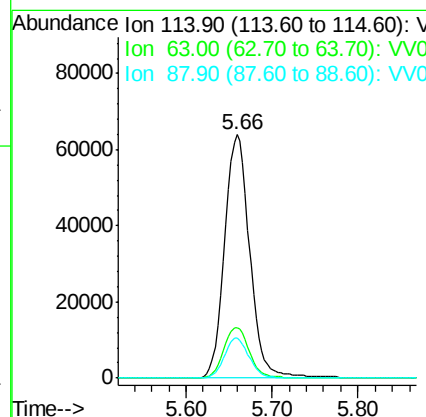
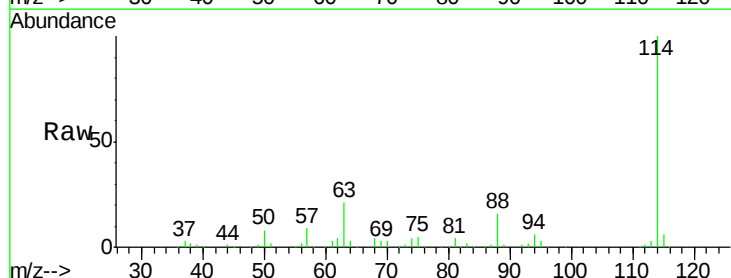
Manual Integrations
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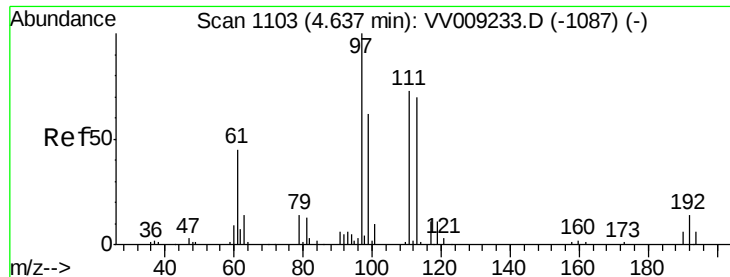
MMDadoda
 1/25/2019 10:01:31 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.66 min Scan# 1421
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	45.2
88	16.5	0.0	33.4





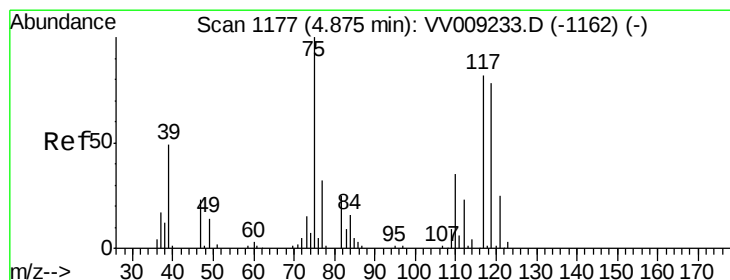
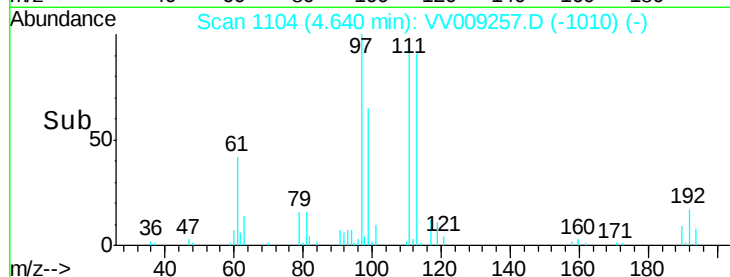
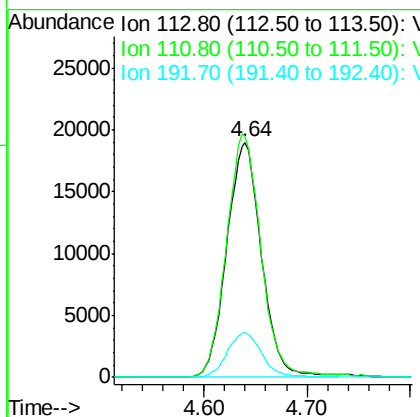
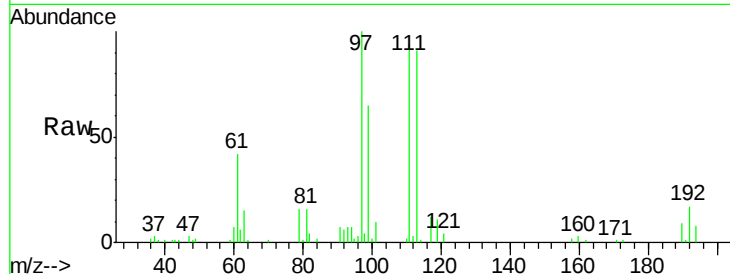
#35
 Dibromofluoromethane
 Concen: 52.307 ug/l
 RT: 4.64 min Scan# 1104
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleID :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	18.8	15.0	22.6

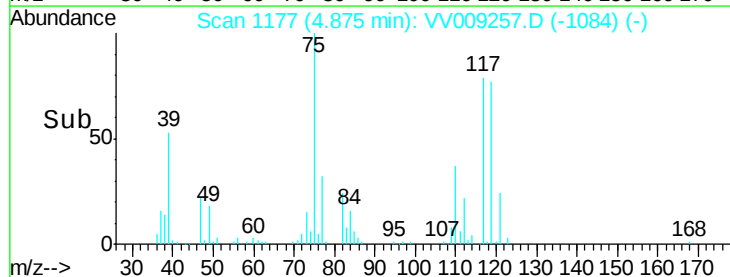
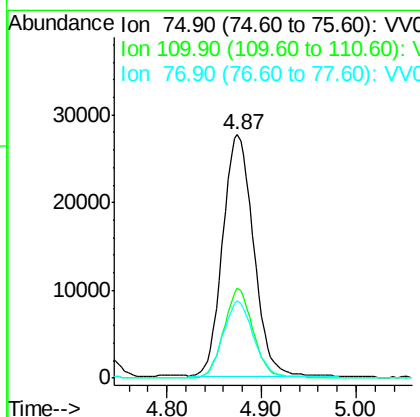
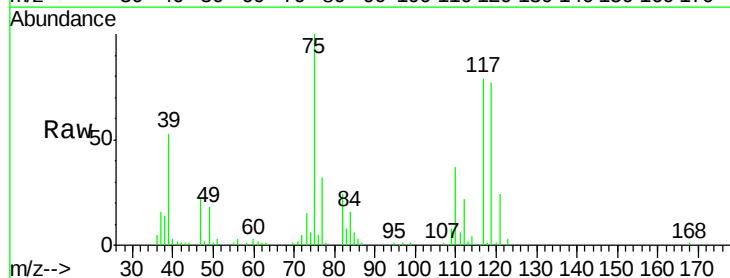
Manual Integrations
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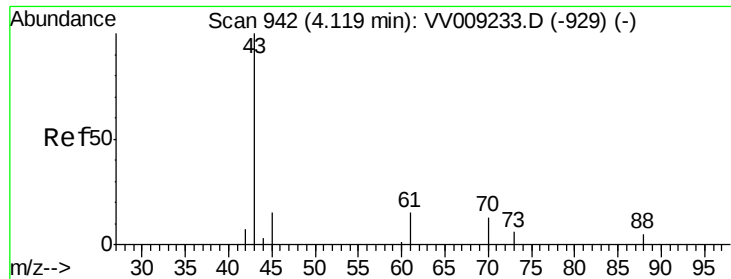
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 1/25/2019 10:01:31 AM



#36
 1,1-Dichloropropene
 Concen: 42.933 ug/l
 RT: 4.87 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.5	52.5
77	31.9	25.5	38.3





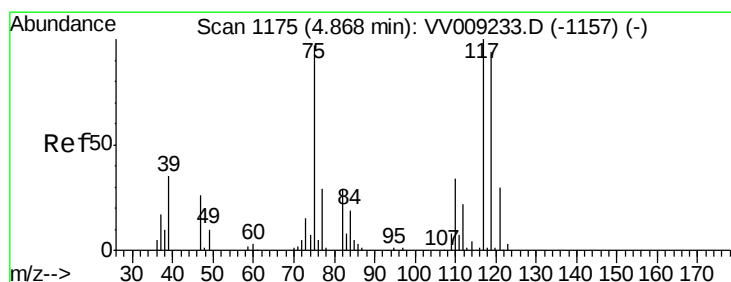
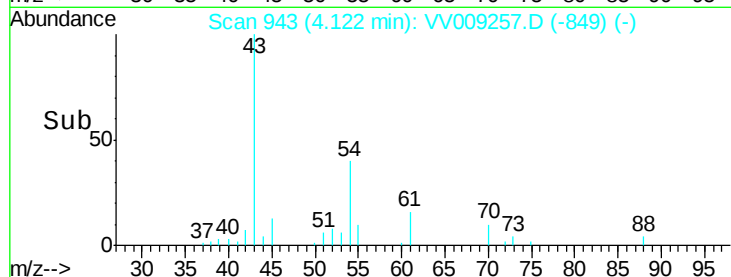
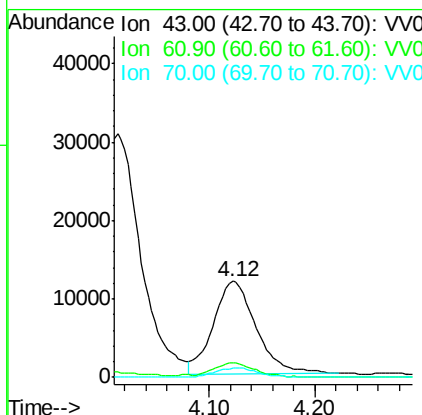
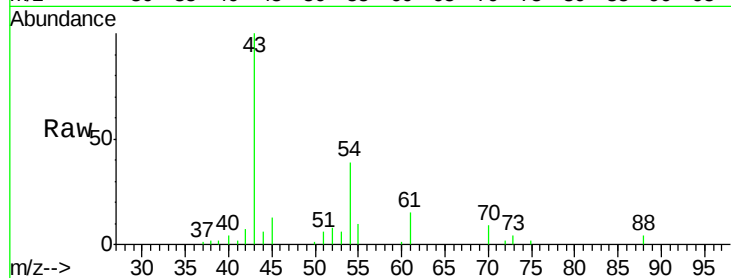
#37
Ethyl Acetate
Concen: 59.870 ug/l
RT: 4.12 min Scan# 943
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.2	12.0	18.0
70	10.0	8.7	13.1

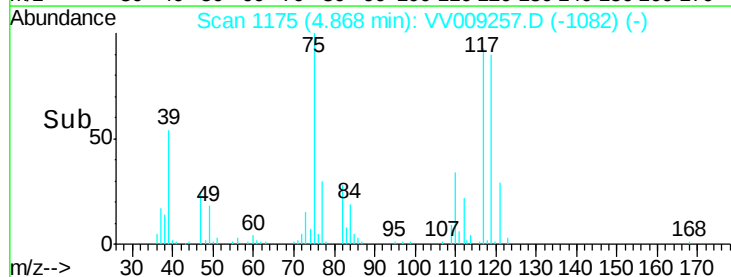
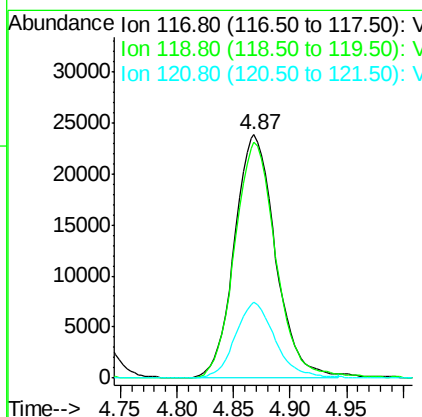
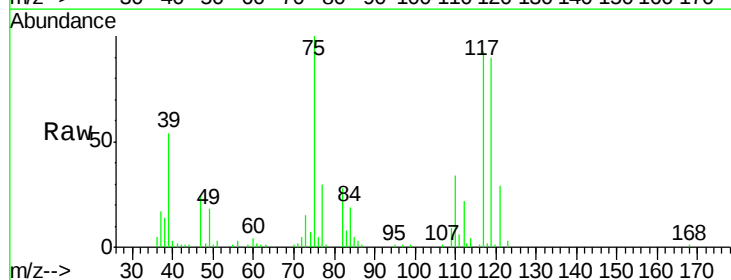
Manual Integrations
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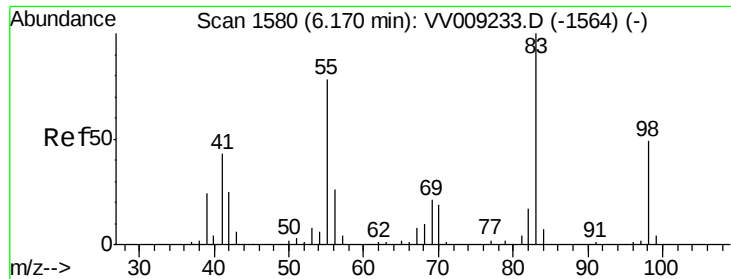
MMDadoda
1/25/2019 10:01:31 AM



#38
Carbon Tetrachloride
Concen: 41.288 ug/l
RT: 4.87 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	75.4	113.2
121	31.0	24.2	36.2





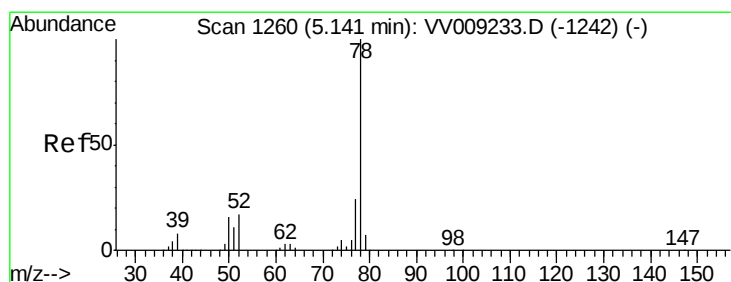
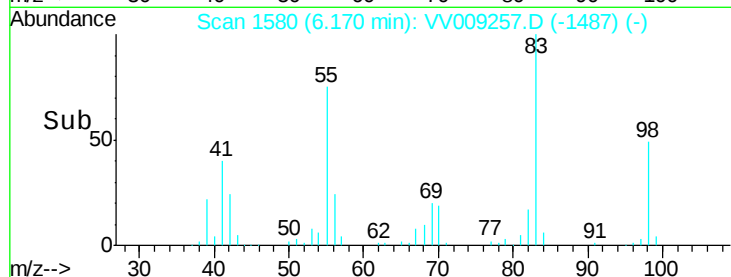
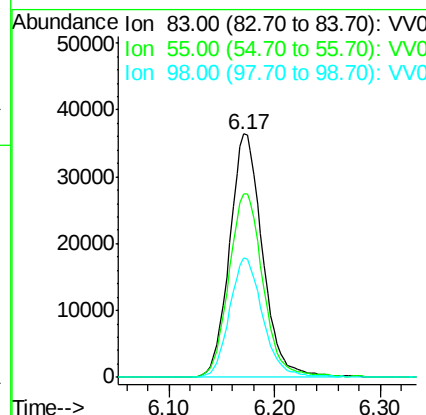
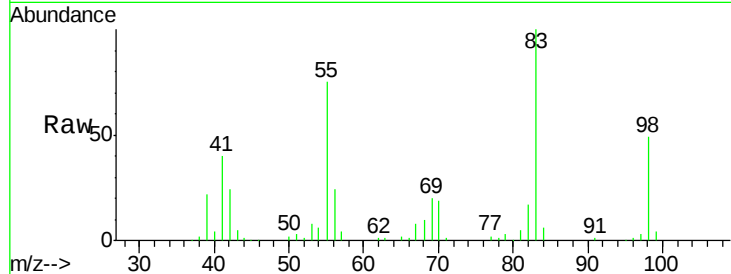
#39
Methvlcvclohexane
Concen: 45.677 ug/l
RT: 6.17 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.1	62.8	94.2
98	49.0	39.1	58.7

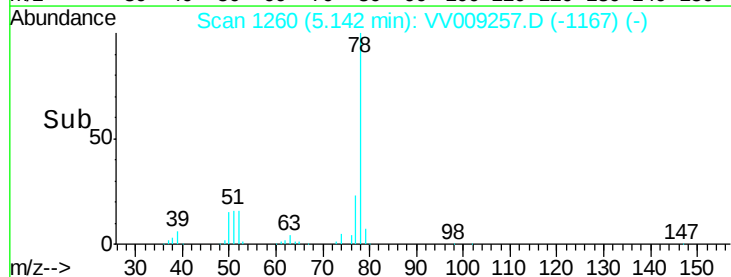
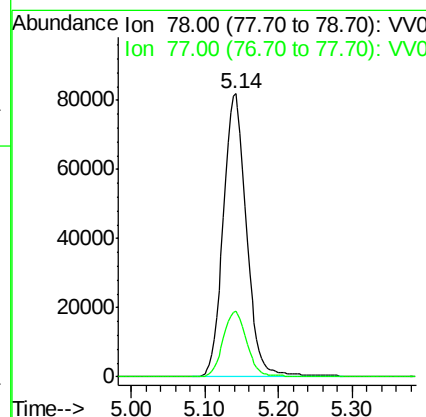
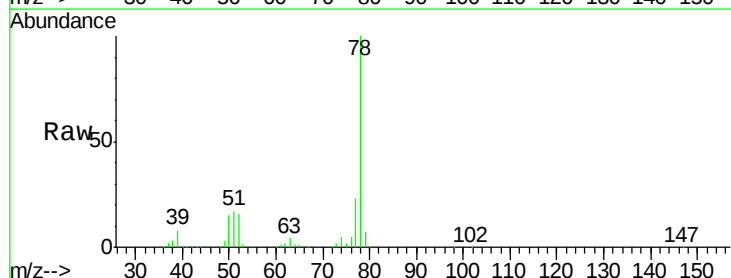
Manual Integrations
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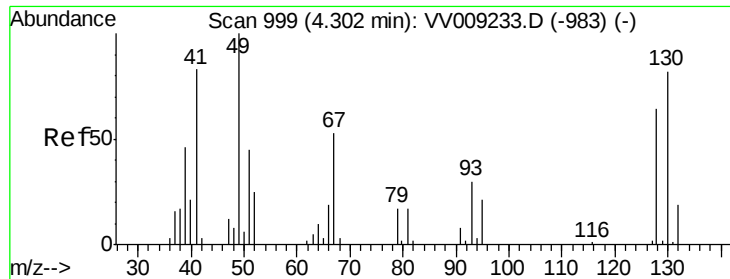
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#40
Benzene
Concen: 44.343 ug/l
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.4	29.2





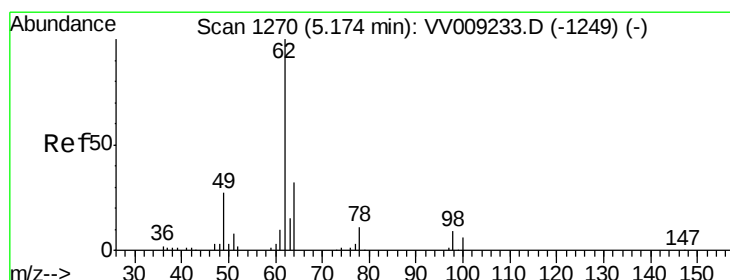
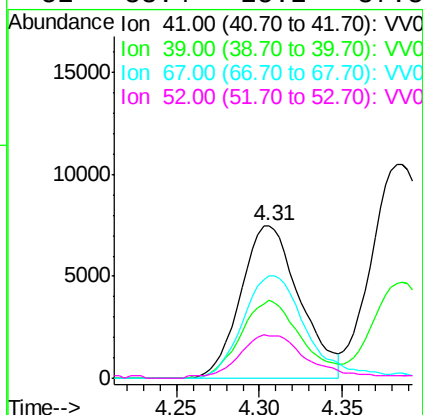
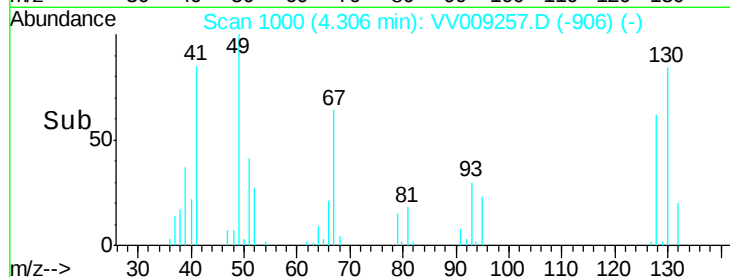
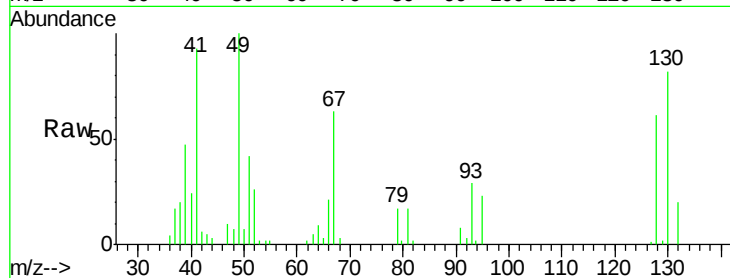
#41
Methacrylonitrile
Concen: 54.908 ug/l
RT: 4.31 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion:	41	Resp:	18491
Ion Ratio	Lower	Upper	
41	100		
39	52.9	45.4	68.0
67	71.8	55.5	83.3
52	33.4	25.2	37.8

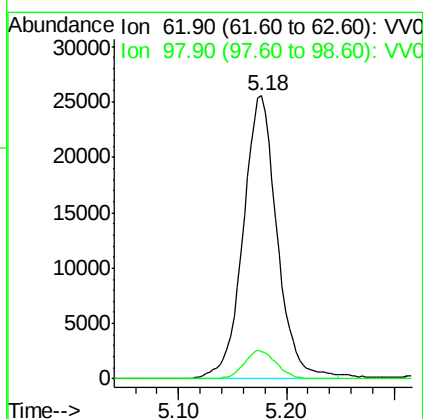
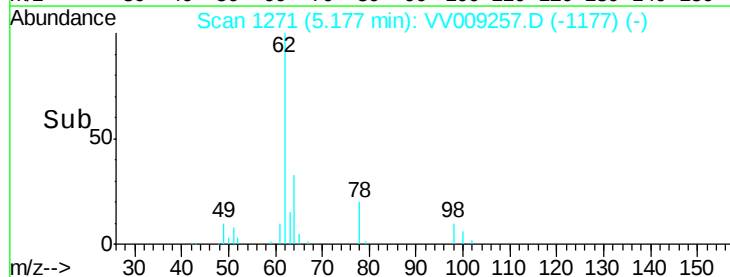
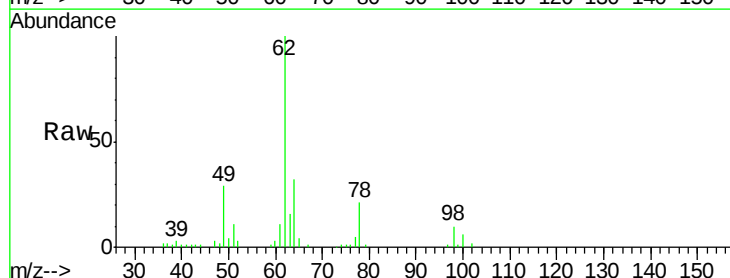
Manual Integrations
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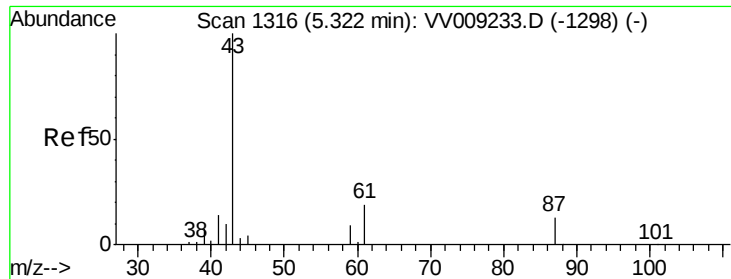
MMDadoda
1/25/2019 10:01:31 AM



#42
1,2-Dichloroethane
Concen: 43.933 ug/l
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion:	62	Resp:	55914
Ion Ratio	Lower	Upper	
62	100		
98	9.6	0.0	16.4





#43

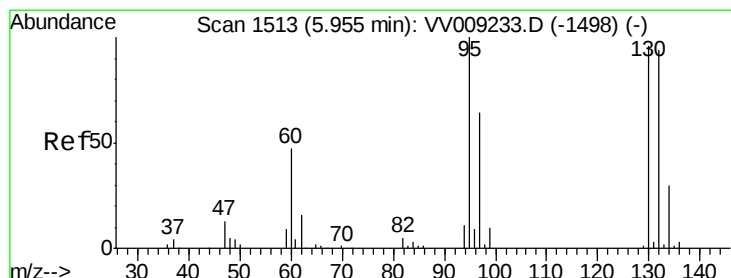
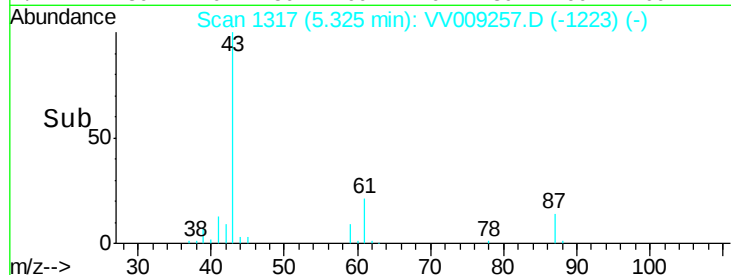
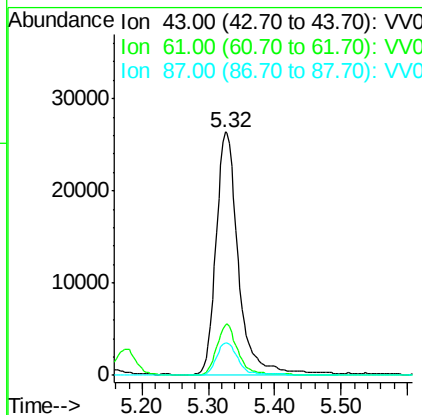
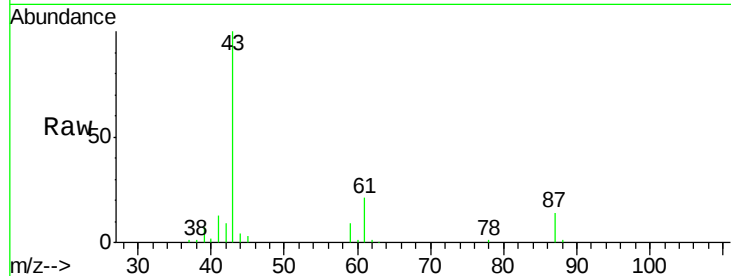
Isopropyl Acetate
 Concen: 56.900 ug/l
 RT: 5.32 min Scan# 1317
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	43	Resp	62539
Ion Ratio	100	Lower	Upper
43	100		
61	19.7	15.4	23.0
87	12.6	9.9	14.9

Manual Integrations
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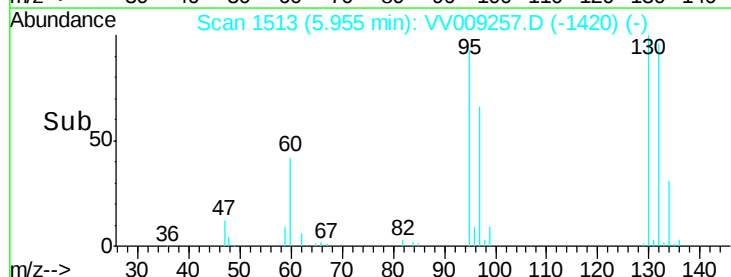
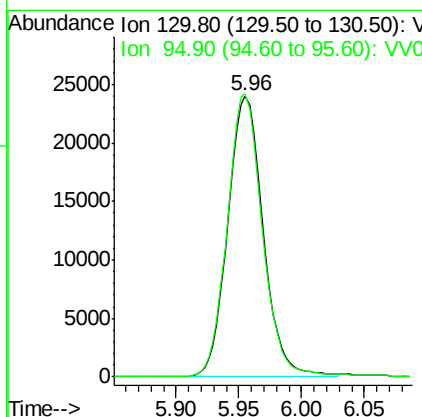
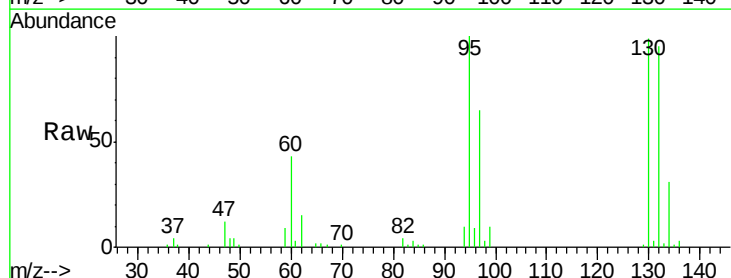
MMDadoda
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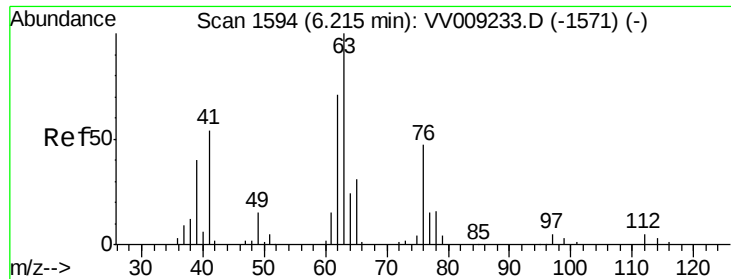


#44

Trichloroethene
 Concen: 44.003 ug/l
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Tgt Ion	130	Resp	47087
Ion Ratio	100	Lower	Upper
130	100		
95	100.7	0.0	208.2





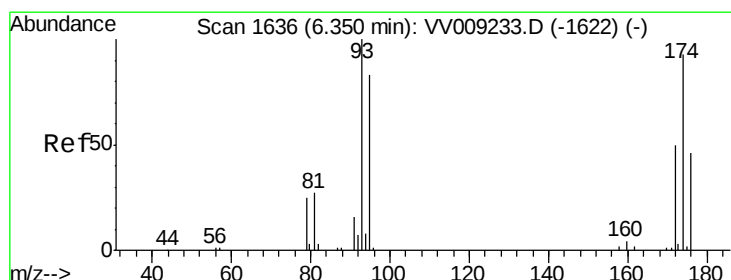
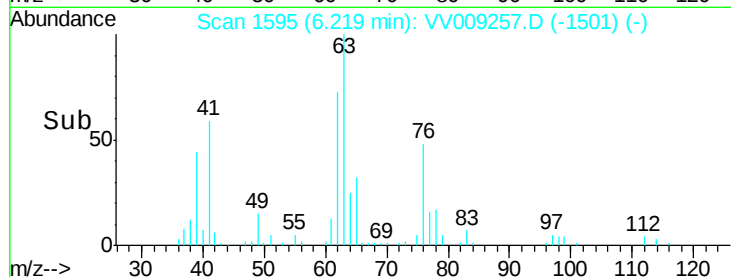
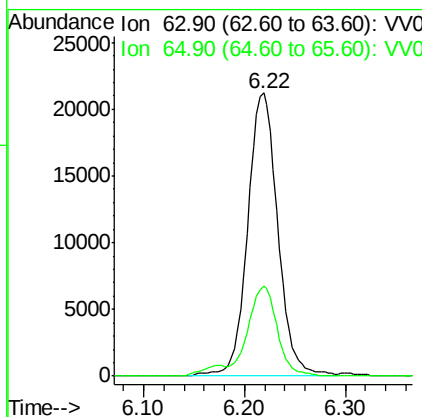
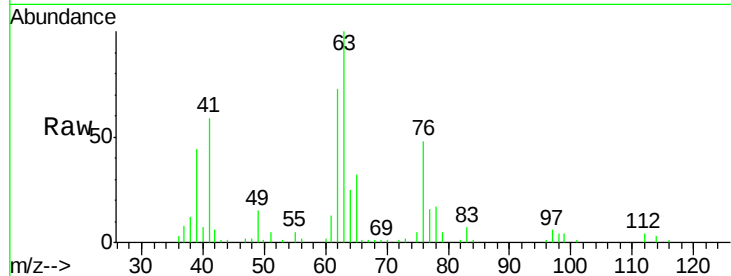
#45
 1,2-Dichloropropane
 Concen: 44.894 ug/l
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion: 63 Resp: 43914
 Ion Ratio Lower Upper
 63 100
 65 31.8 25.1 37.7

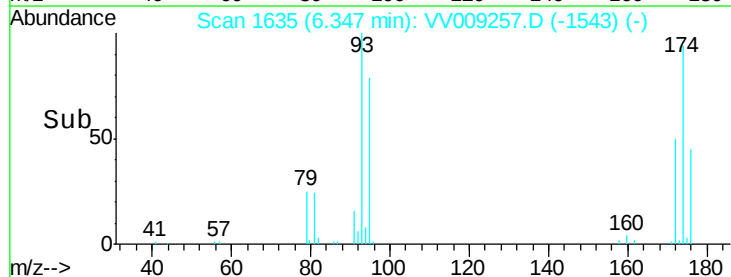
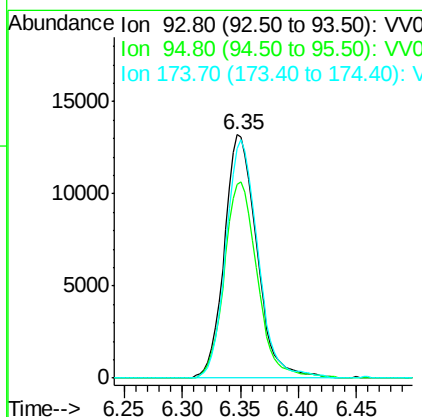
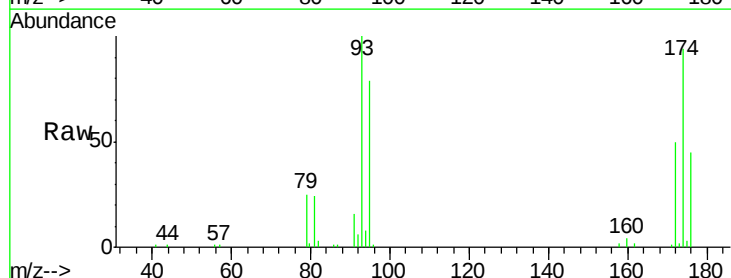
Manual Integrations
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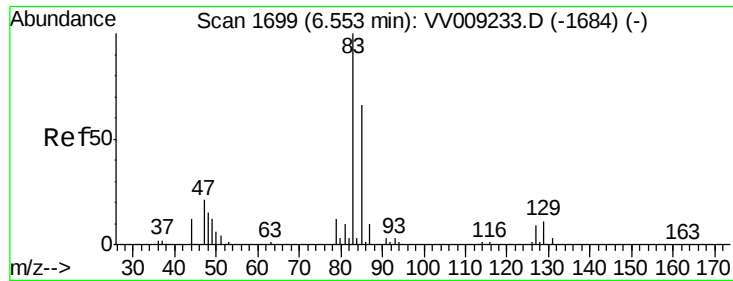
MMDadoda
 1/25/2019 10:01:31 AM



#46
 Dibromomethane
 Concen: 51.182 ug/l
 RT: 6.35 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Tgt Ion: 93 Resp: 25689
 Ion Ratio Lower Upper
 93 100
 95 81.6 64.6 97.0
 174 96.2 74.0 111.0





#47

Bromodichloromethane

Concen: 44.396 ug/l

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

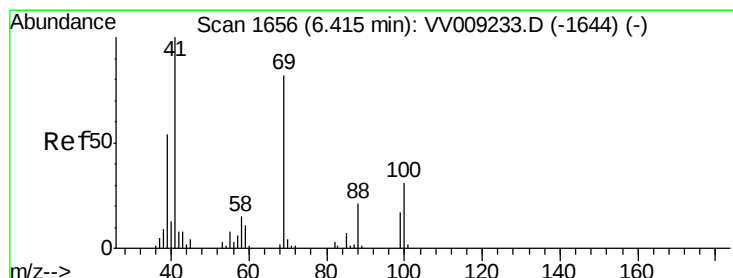
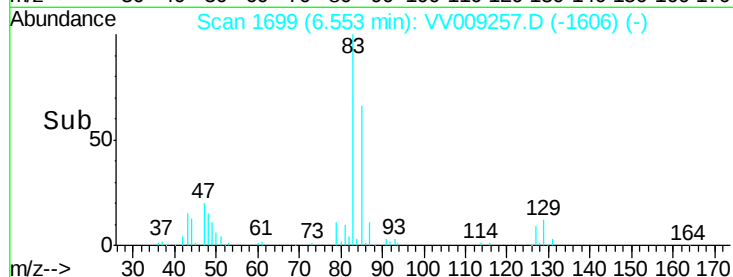
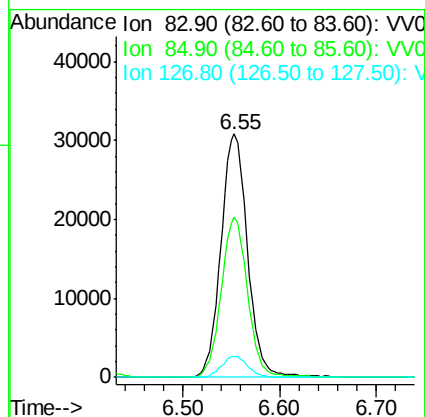
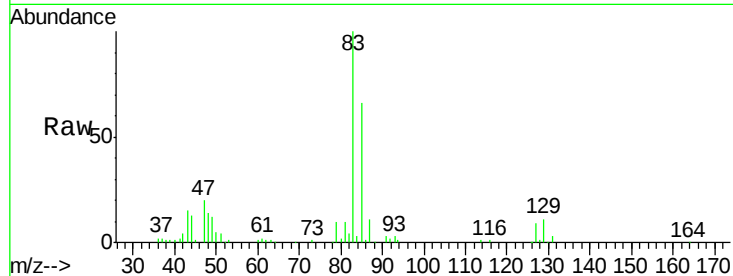
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	58883
Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.6	78.8
127	8.8	7.0	10.6

Manual Integrations
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MMDadoda
1/25/2019 10:01:31 AM



#48

Methyl methacrylate

Concen: 54.306 ug/l

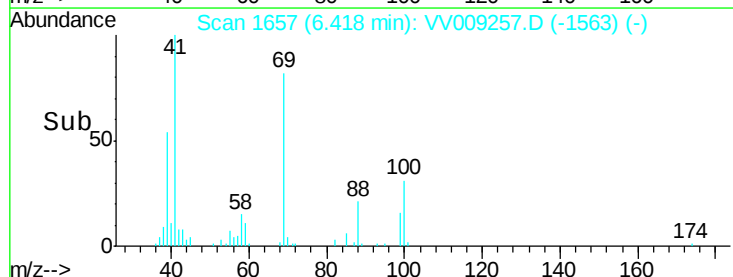
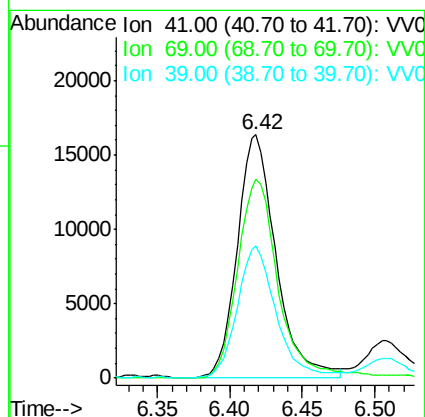
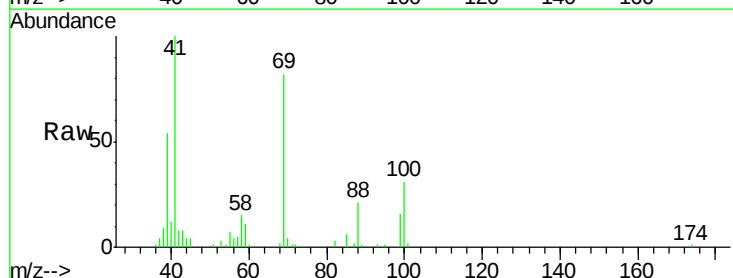
RT: 6.42 min Scan# 1657

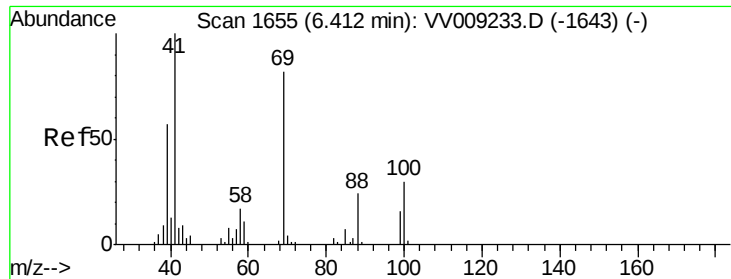
Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Tgt Ion:	41	Resp:	30458
Ion	Ratio	Lower	Upper
41	100		
69	85.8	65.8	98.6
39	54.0	43.4	65.0





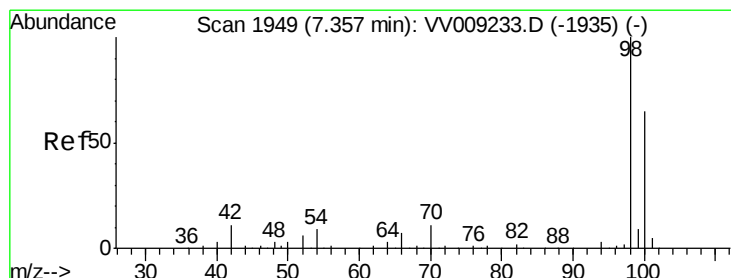
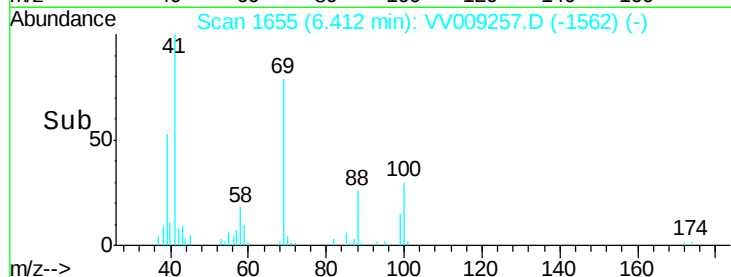
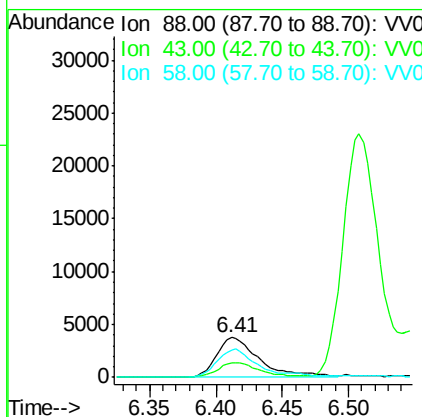
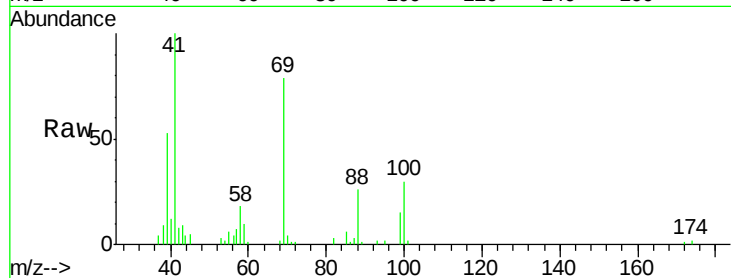
#49
1,4-Dioxane
Concen: 1334.627 ug/l
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.4	31.9	47.9
58	62.5	62.0	93.0

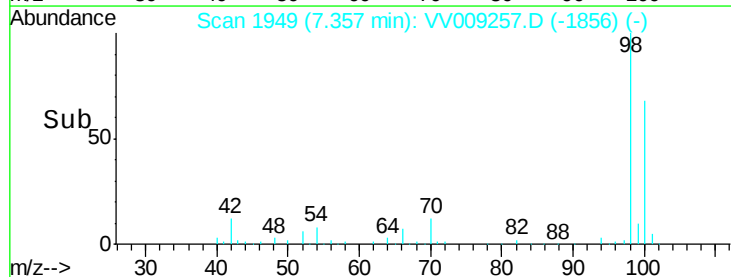
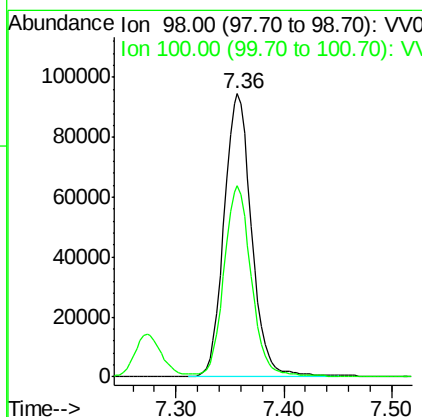
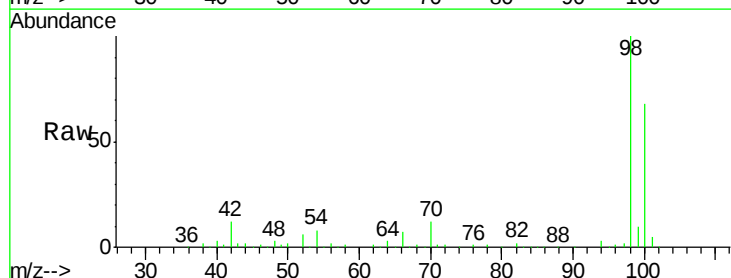
Manual Integrations
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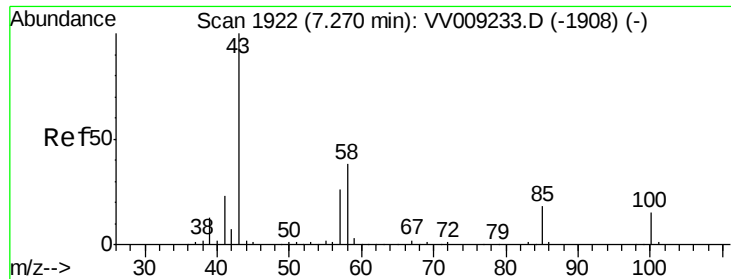
MMDadoda
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#50
Toluene-d8
Concen: 50.785 ug/l
RT: 7.36 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 290.090 ug/l

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 161812

Ion Ratio Lower Upper

43 100

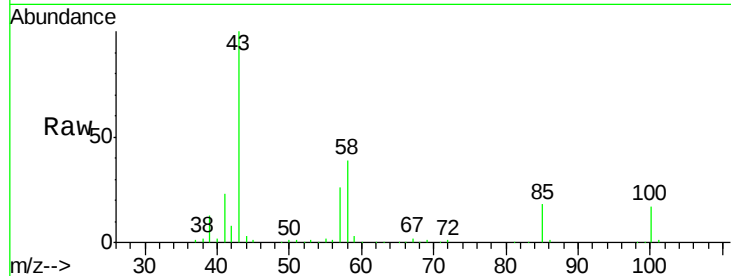
58 38.1 30.4 45.6

Manual Integrations

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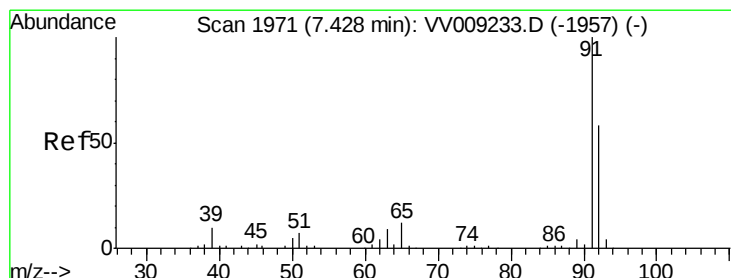
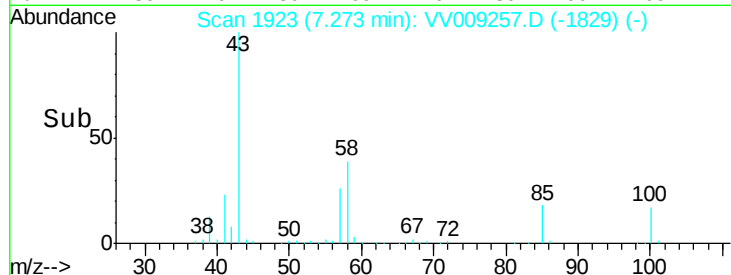
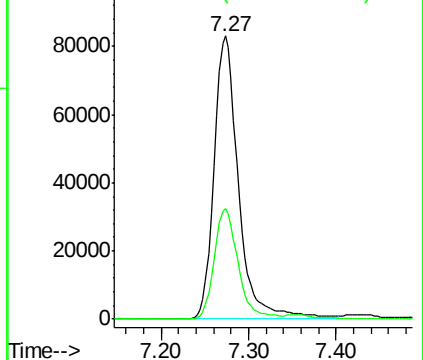
MMDadoda

1/25/2019 10:01:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#52

Toluene

Concen: 43.775 ug/l

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV009257.D

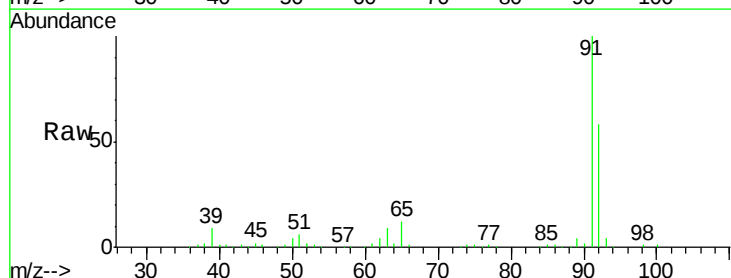
Acq: 24 Jan 2019 13:48

Tgt Ion: 92 Resp: 112606

Ion Ratio Lower Upper

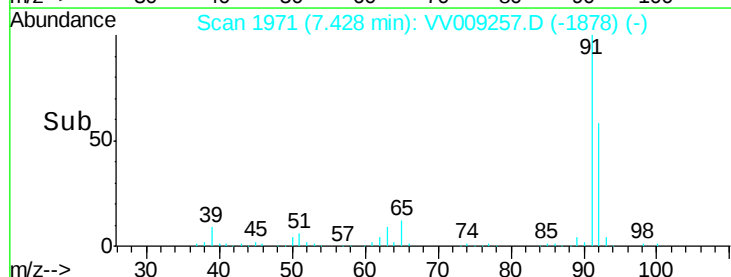
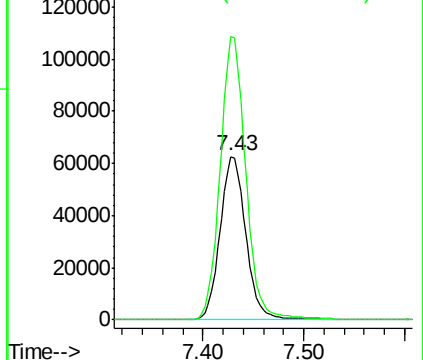
92 100

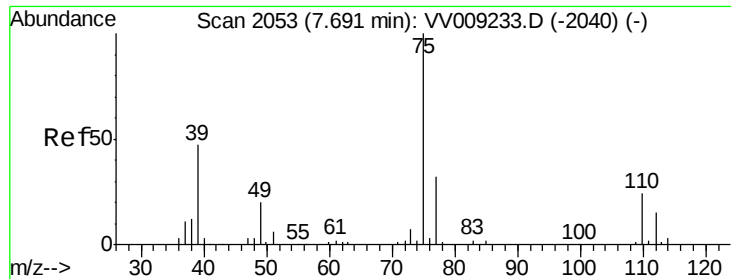
91 171.5 137.2 205.8



Abundance Ion 92.00 (91.70 to 92.70): VV0

Ion 91.00 (90.70 to 91.70): VV0





#53

t-1,3-Dichloropropene

Concen: 46.757 ug/l

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 75 Resp: 60358

Ion Ratio Lower Upper

75 100

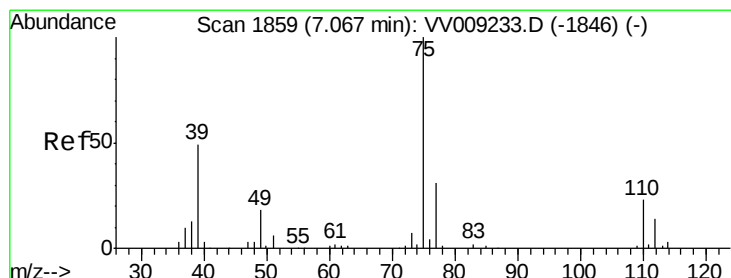
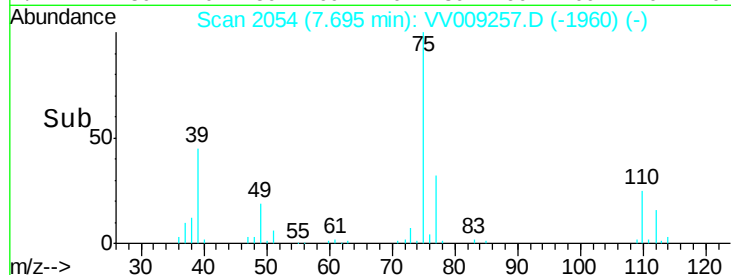
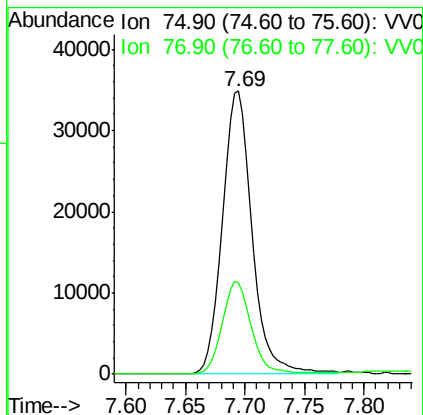
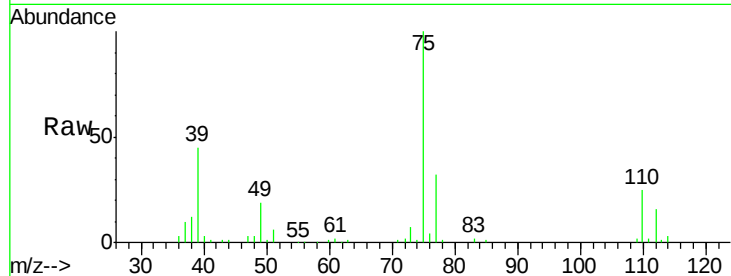
77 32.4 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 46.016 ug/l

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

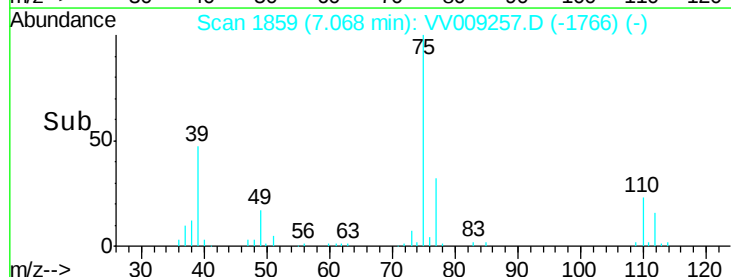
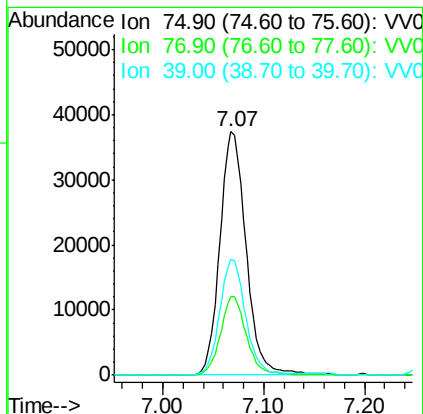
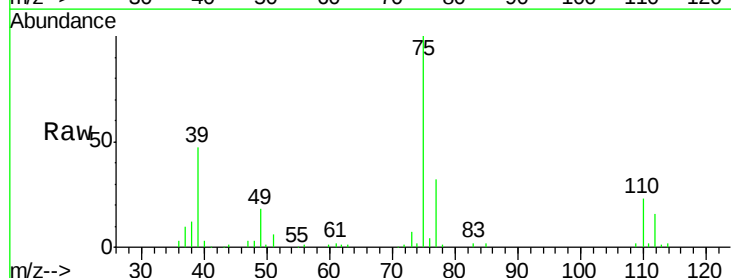
Tgt Ion: 75 Resp: 68400

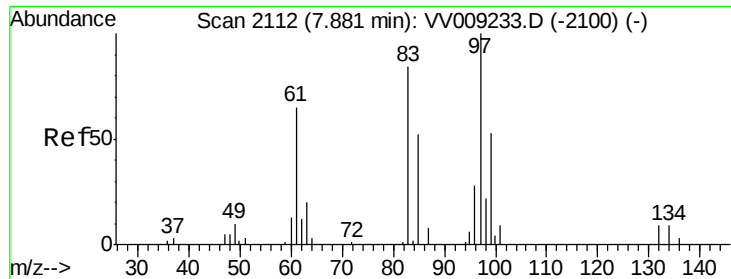
Ion Ratio Lower Upper

75 100

77 32.2 25.1 37.7

39 47.5 38.8 58.2





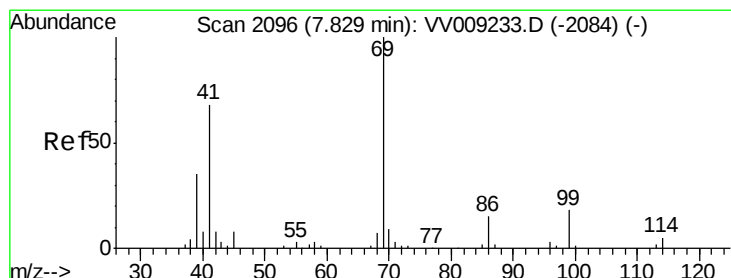
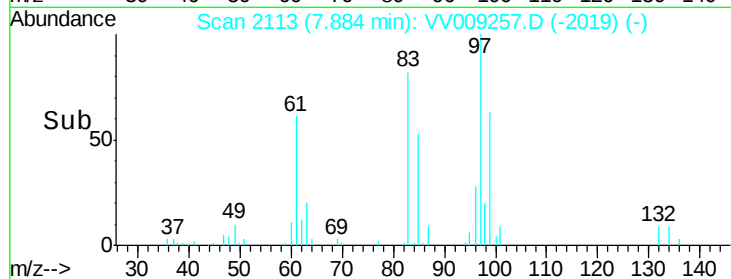
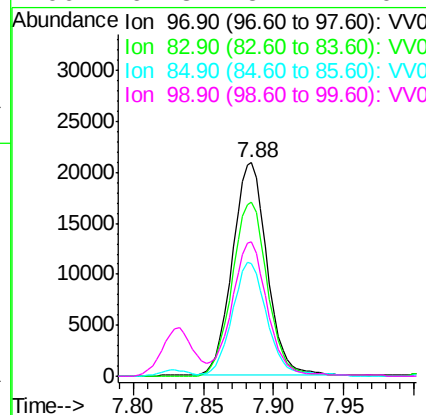
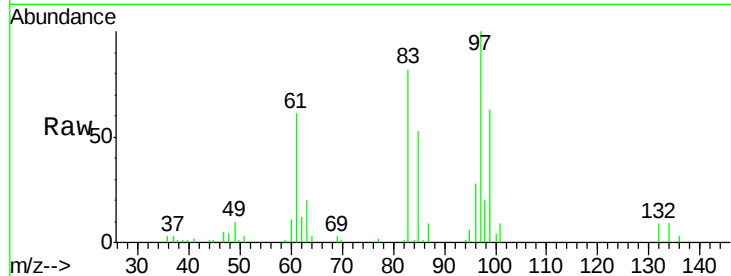
#55
1,1,2-Trichloroethane
Concen: 50.641 ug/l
RT: 7.88 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		35812		
83	82.0	67.4	101.0		
85	52.3	42.6	64.0		
99	62.3	51.1	76.7		

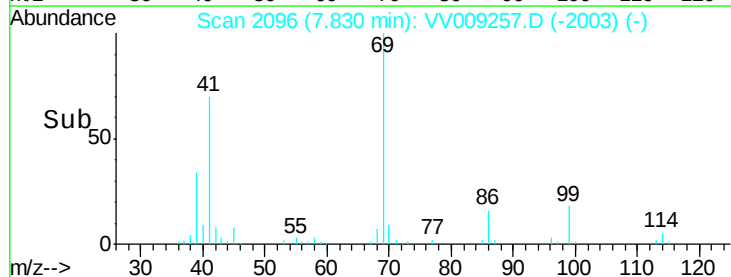
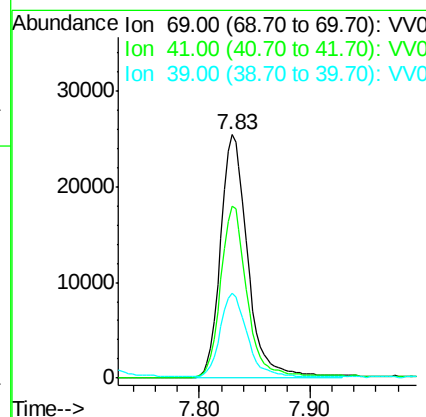
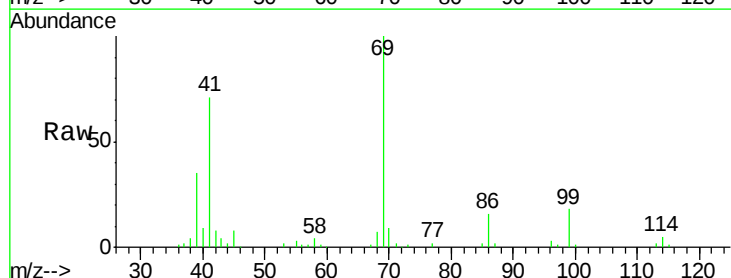
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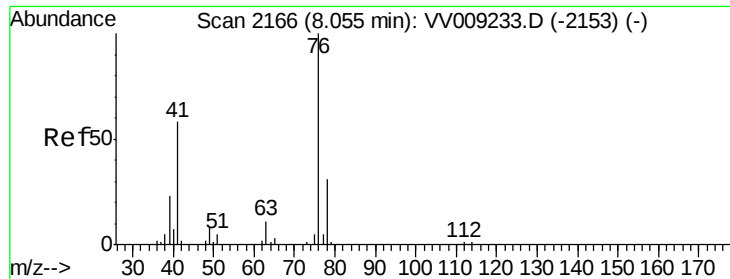
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1/25/2019 10:01:31 AM



#56
Ethyl methacrylate
Concen: 53.059 ug/l
RT: 7.83 min Scan# 2096
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		43716		
41	68.2	54.0	81.0		
39	33.7	26.8	40.2		





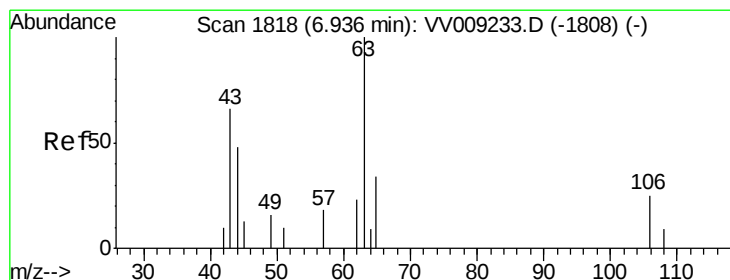
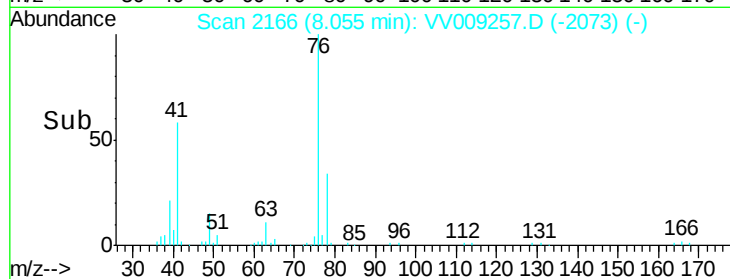
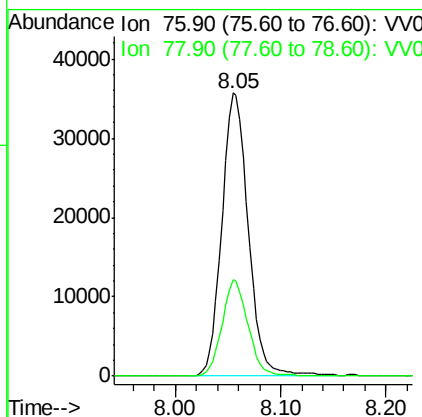
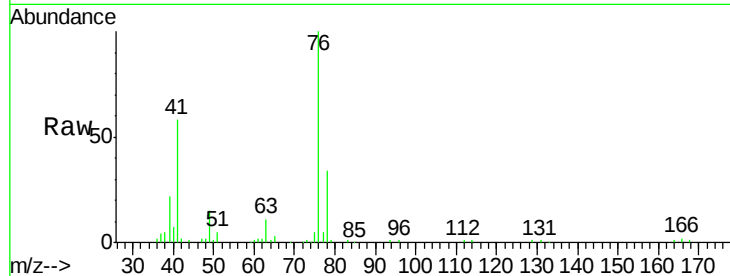
#57
 1,3-Dichloropropane
 Concen: 48.509 ug/l
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion: 76 Resp: 62111
 Ion Ratio Lower Upper
 76 100
 78 33.3 25.5 38.3

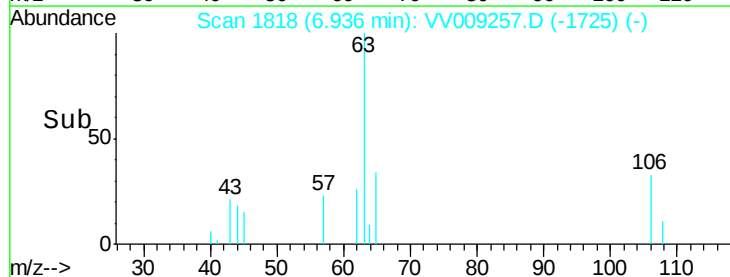
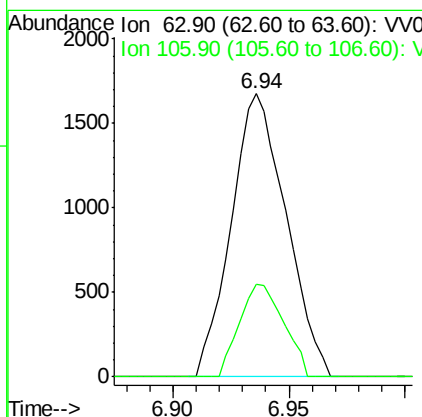
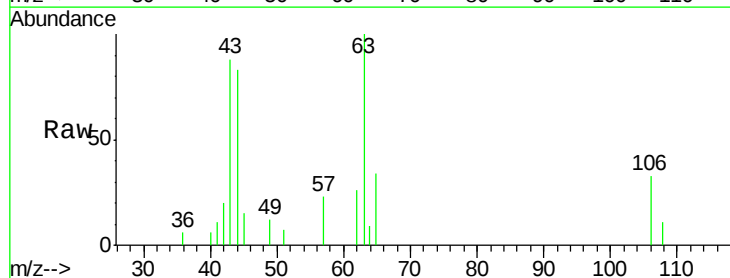
Manual Integrations
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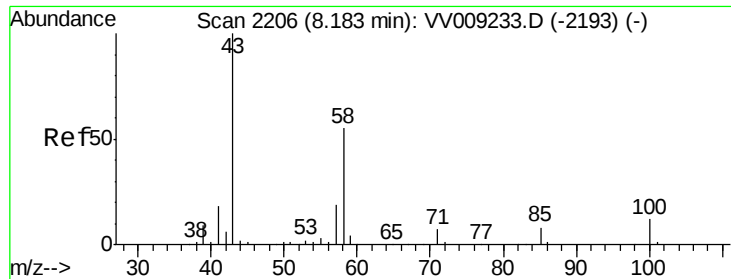
MMDadoda
 1/25/2019 10:01:31 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 213.895 ug/l
 RT: 6.94 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Tgt Ion: 63 Resp: 2754
 Ion Ratio Lower Upper
 63 100
 106 26.3 19.0 28.6





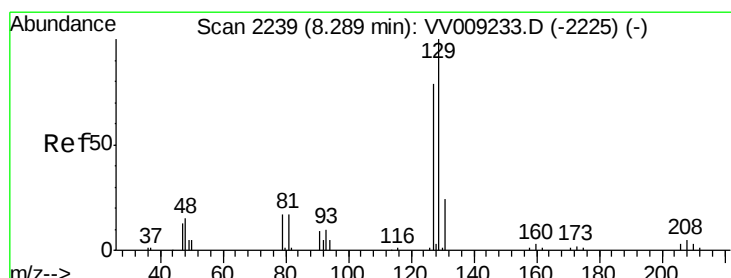
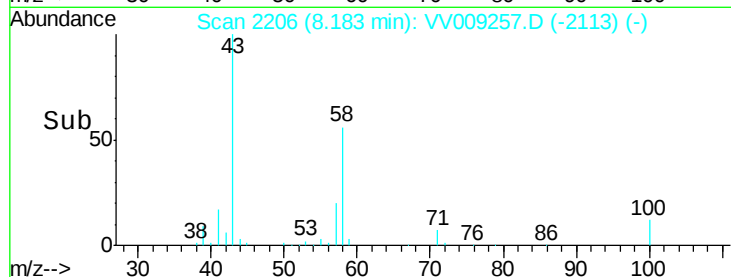
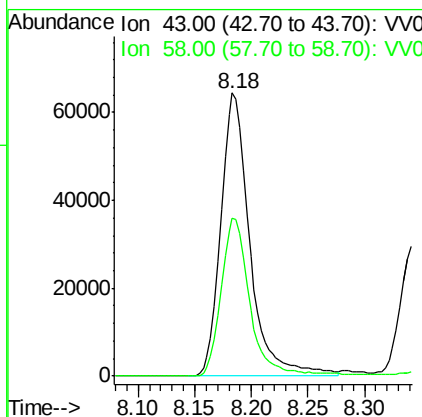
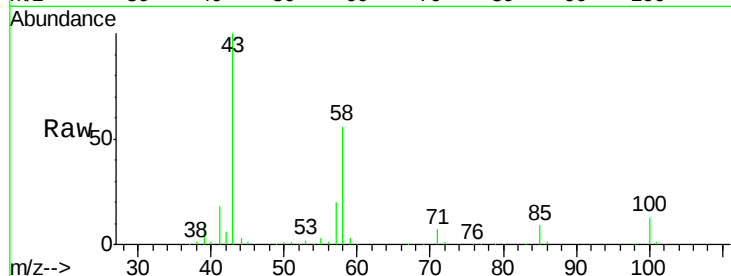
#59
2-Hexanone
Concen: 286.455 ug/l
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion: 43 Resp: 115569
Ion Ratio Lower Upper
43 100
58 55.8 27.5 82.5

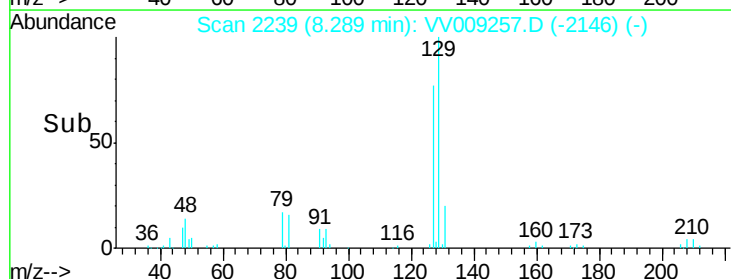
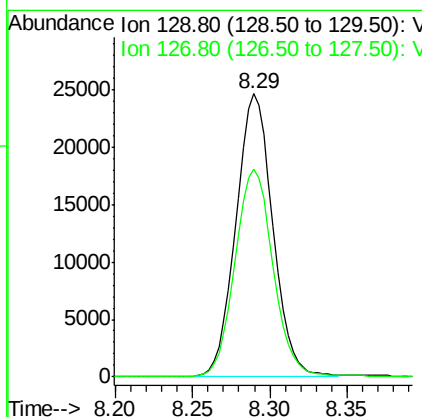
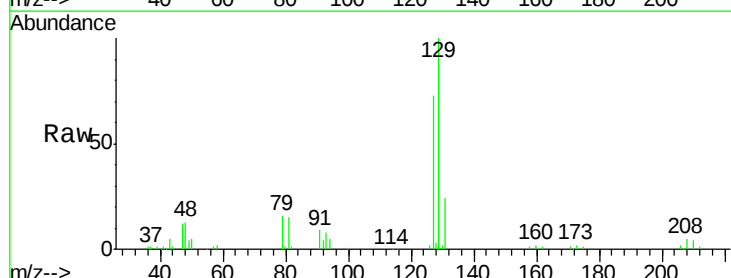
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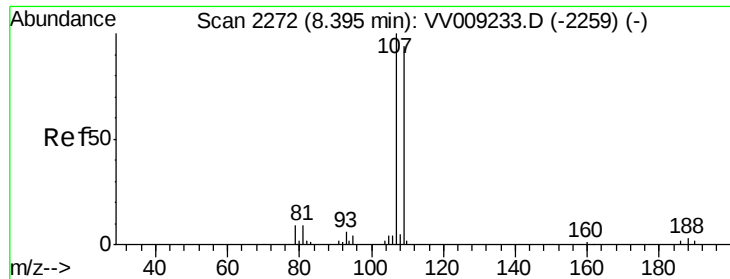
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#60
Dibromochloromethane
Concen: 49.374 ug/l
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion: 129 Resp: 40882
Ion Ratio Lower Upper
129 100
127 75.7 38.8 116.4





#61

1,2-Dibromoethane

Concen: 51.313 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion:107 Resp: 35486

Ion Ratio Lower Upper

107 100

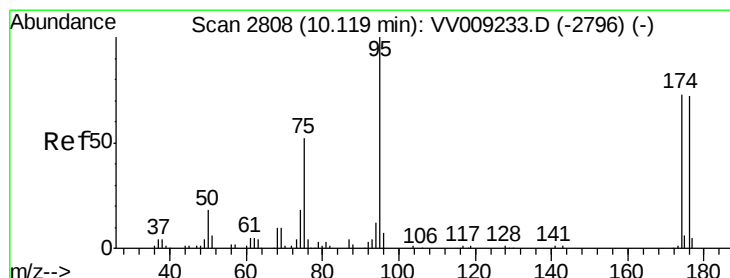
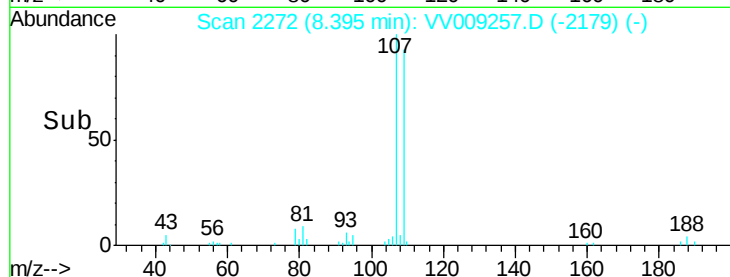
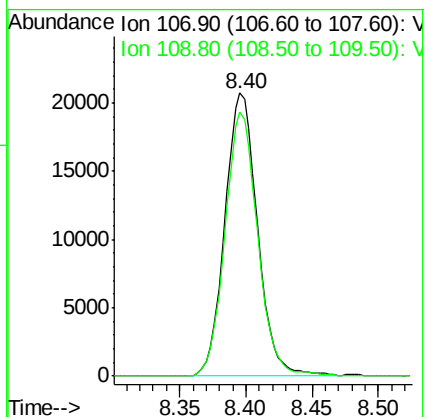
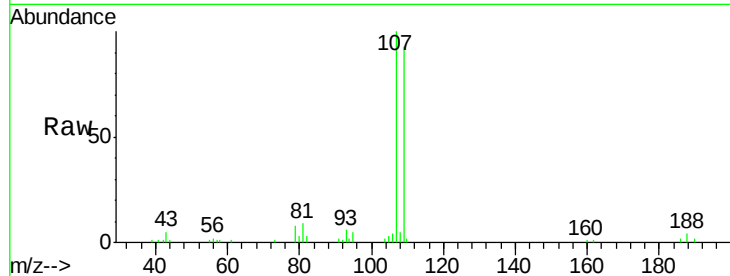
109 93.4 76.2 114.2

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#62

4-Bromofluorobenzene

Concen: 51.821 ug/l

RT: 10.12 min Scan# 2808

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

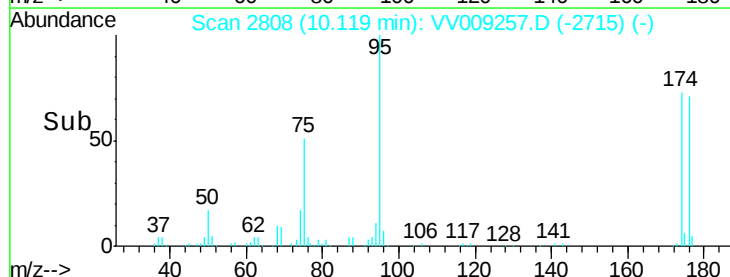
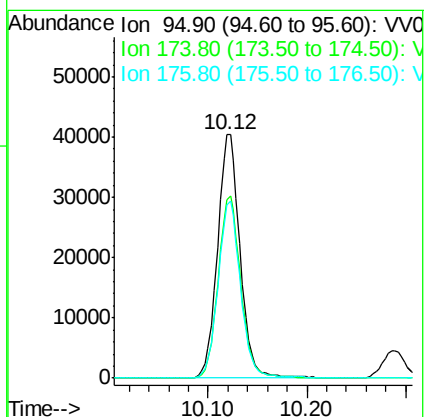
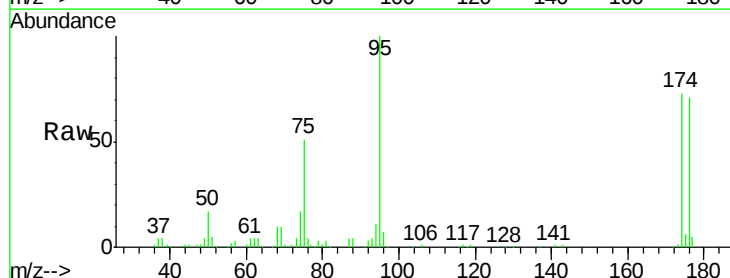
Tgt Ion: 95 Resp: 64762

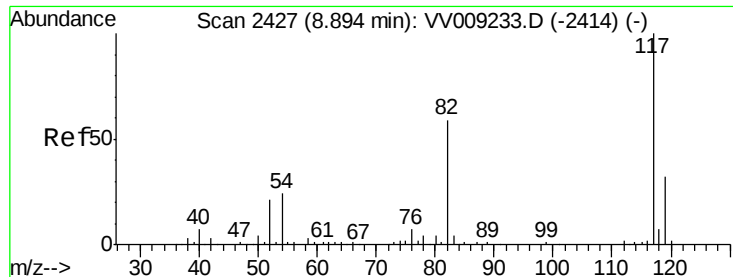
Ion Ratio Lower Upper

95 100

174 75.0 0.0 148.2

176 72.0 0.0 143.0





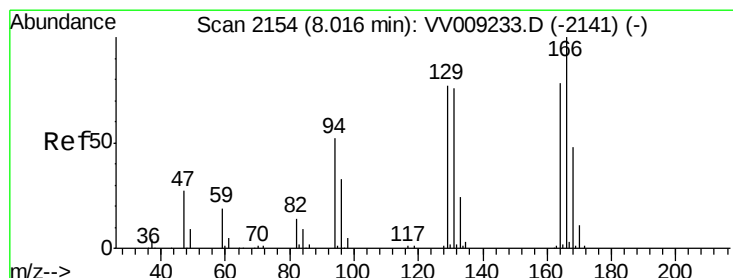
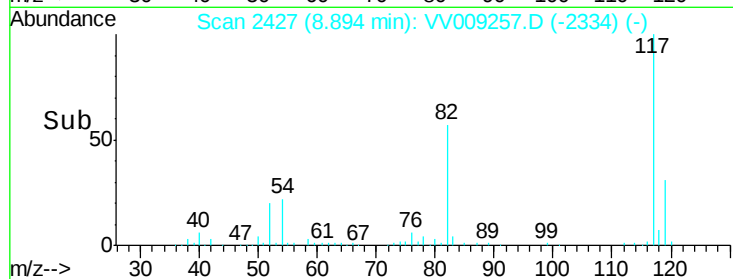
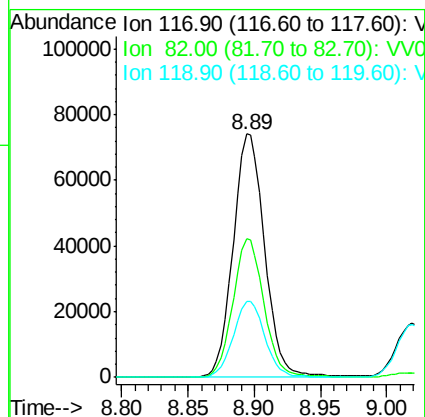
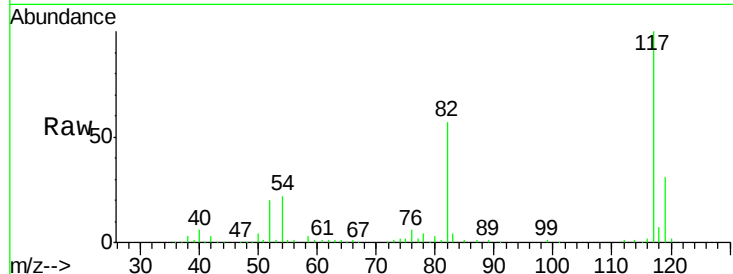
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.89 min Scan# 2427
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.0	70.6
119	31.0	25.4	38.2

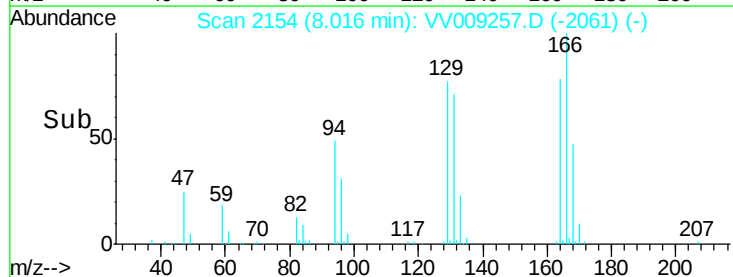
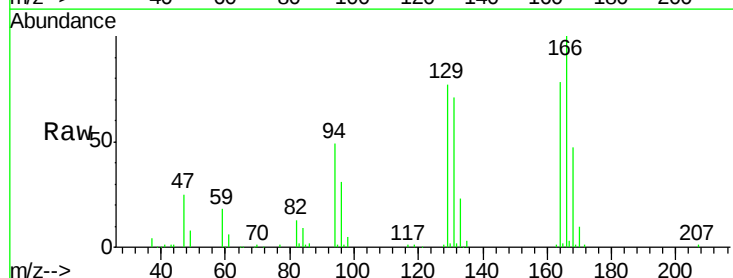
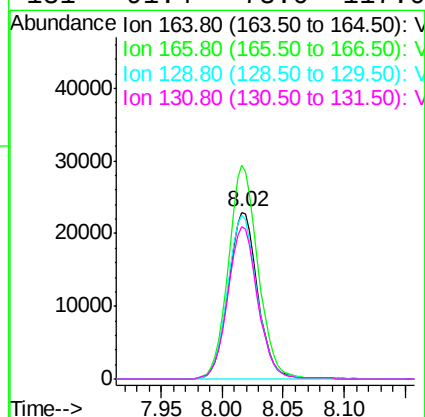
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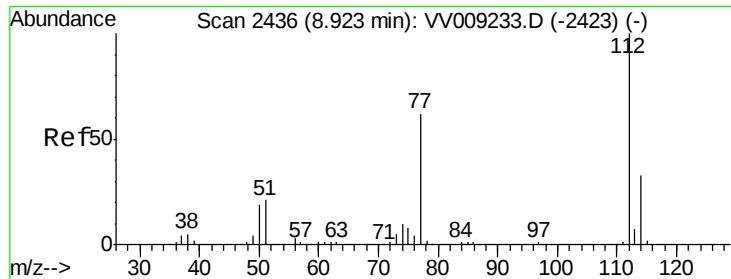
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#64
Tetrachloroethene
Concen: 44.437 ug/l
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	102.1	153.1
129	98.2	78.1	117.1
131	91.4	78.0	117.0





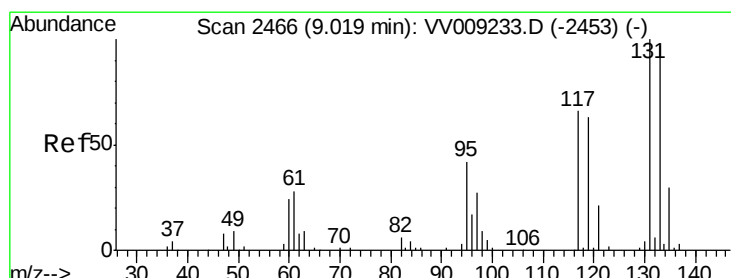
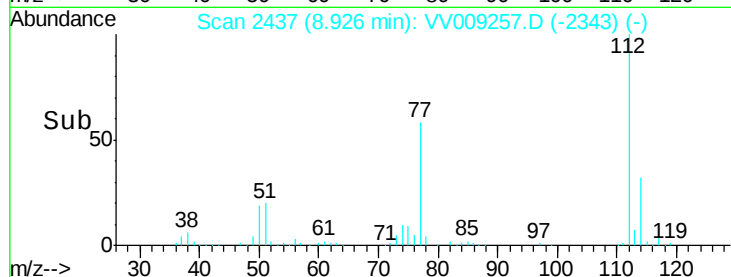
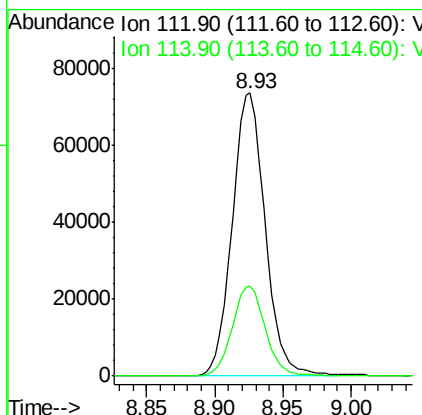
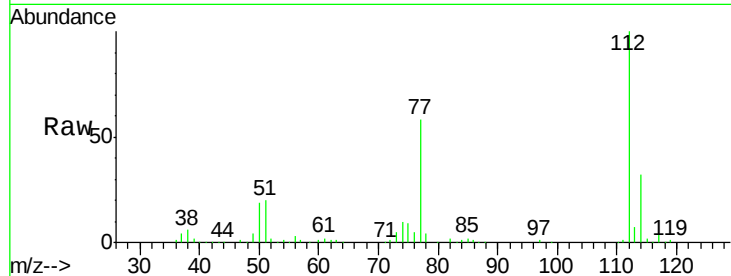
#65
Chlorobenzene
Concen: 43.472 ug/l
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion:112 Resp: 123860
Ion Ratio Lower Upper
112 100
114 32.0 26.0 39.0

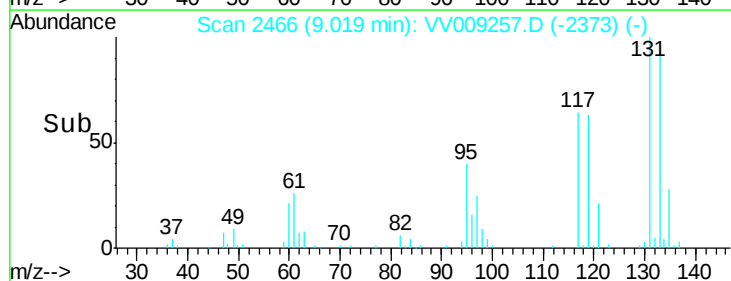
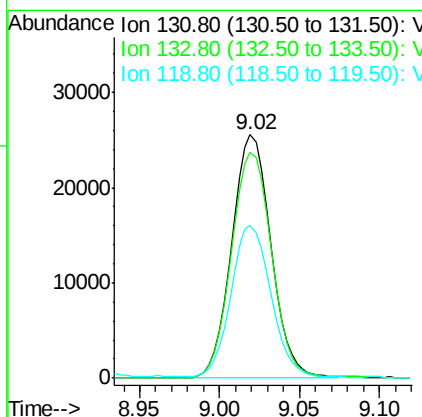
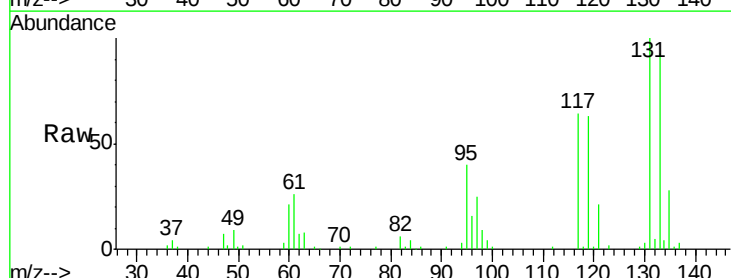
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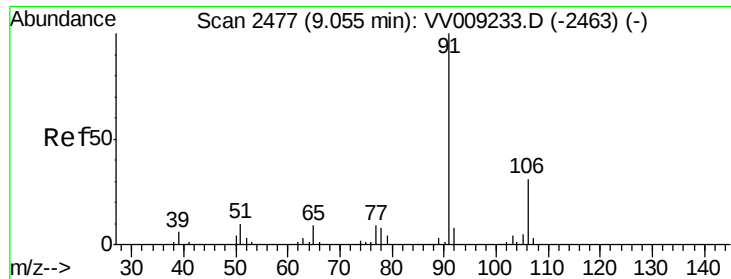
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#66
1,1,1,2-Tetrachloroethane
Concen: 43.948 ug/l
RT: 9.02 min Scan# 2466
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion:131 Resp: 42795
Ion Ratio Lower Upper
131 100
133 95.4 48.3 144.9
119 64.8 31.2 93.6





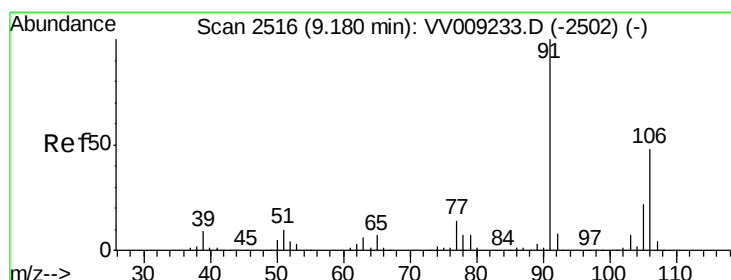
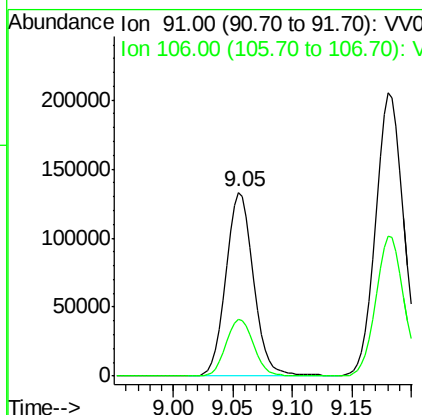
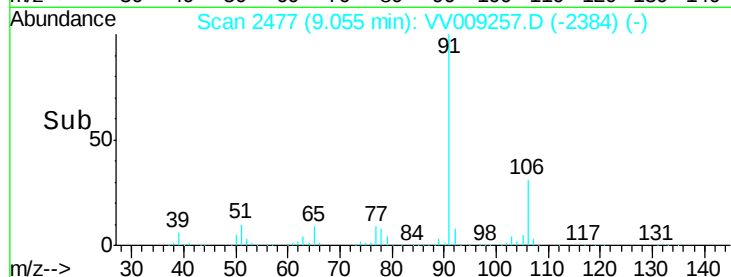
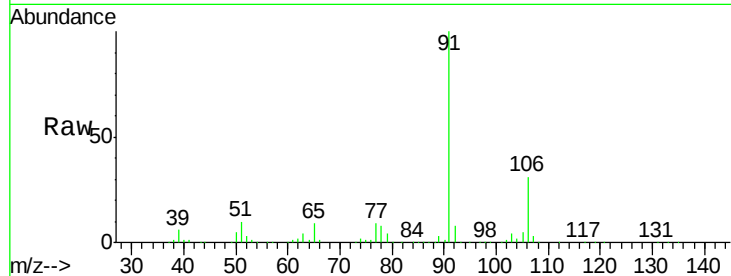
#67
Ethyl Benzene
Concen: 42.477 ug/l
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion: 91 Resp: 215609
Ion Ratio Lower Upper
91 100
106 30.8 24.6 37.0

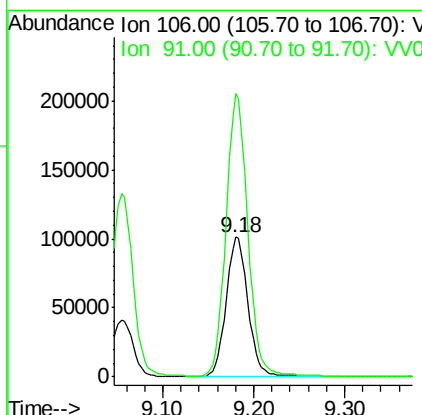
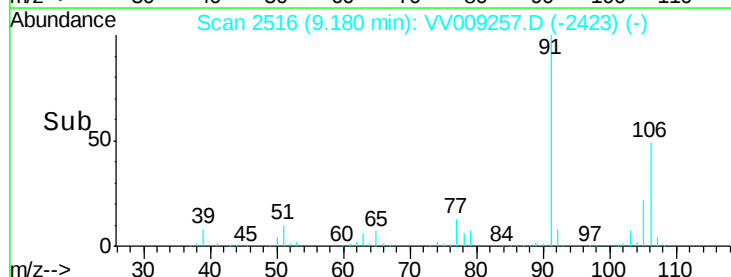
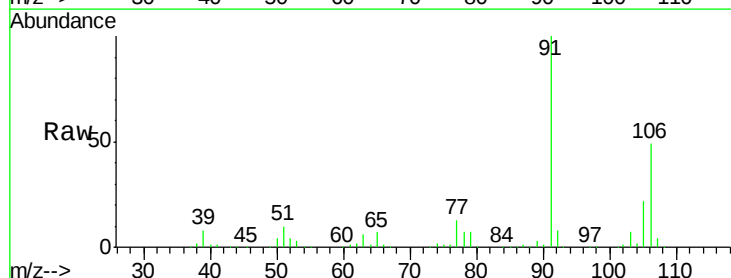
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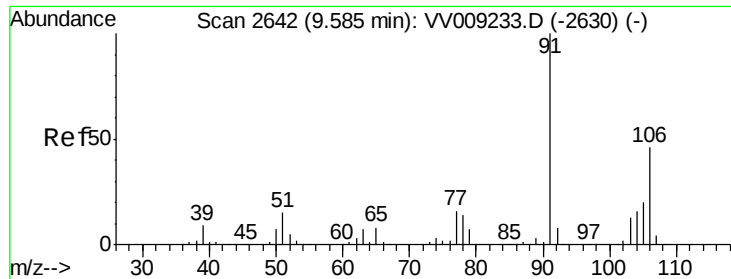
MMDadoda
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#68
m/p-Xylenes
Concen: 87.636 ug/l
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion: 106 Resp: 168875
Ion Ratio Lower Upper
106 100
91 202.4 167.1 250.7





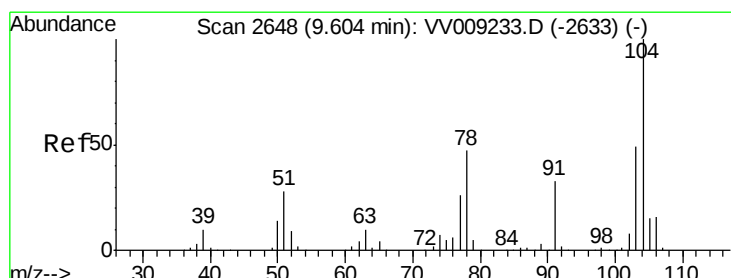
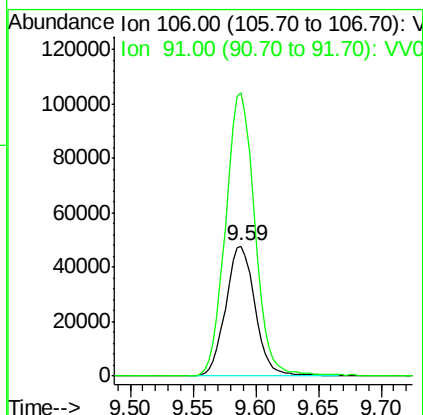
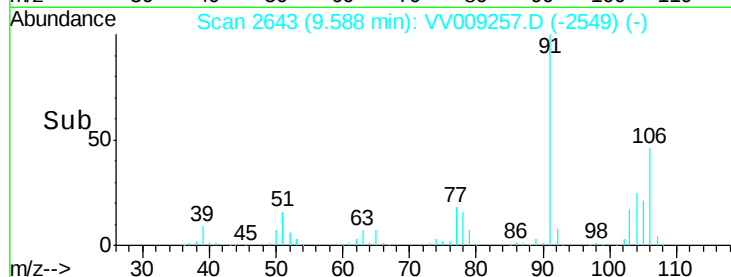
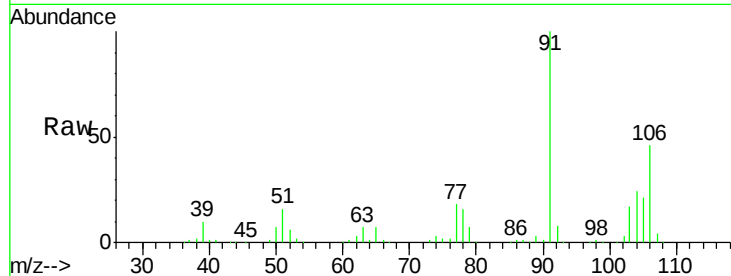
#69
o-Xylene
Concen: 43.538 ug/l
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion:106 Resp: 77782
Ion Ratio Lower Upper
106 100
91 216.6 109.3 327.8

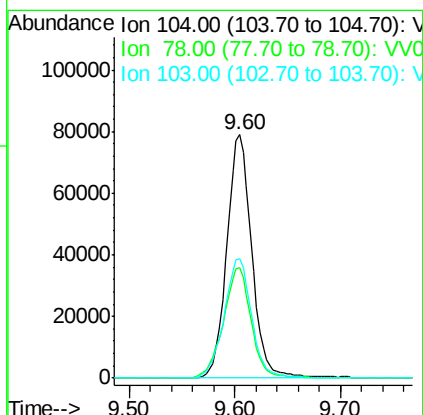
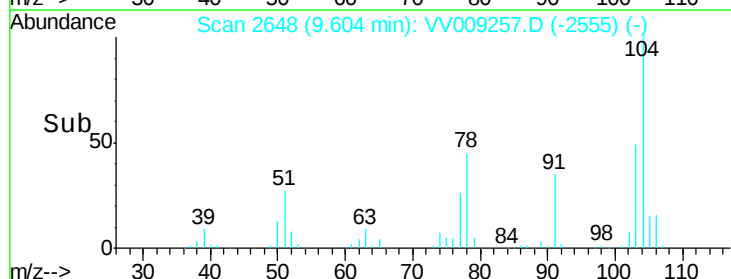
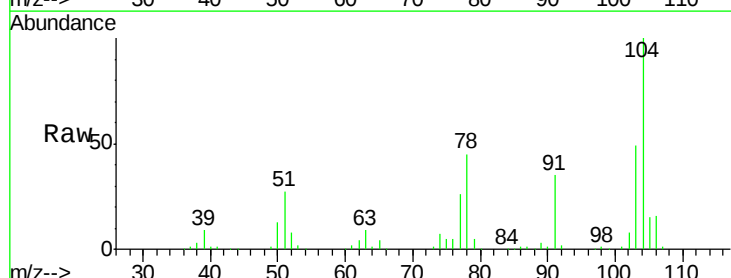
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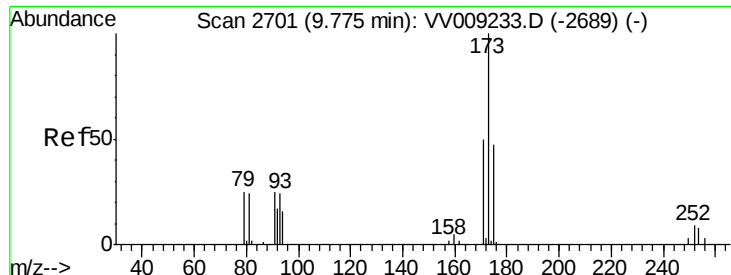
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#70
Styrene
Concen: 45.333 ug/l
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion:104 Resp: 129256
Ion Ratio Lower Upper
104 100
78 50.7 43.1 64.7
103 54.1 43.8 65.8





#71

Bromoform

Concen: 51.539 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

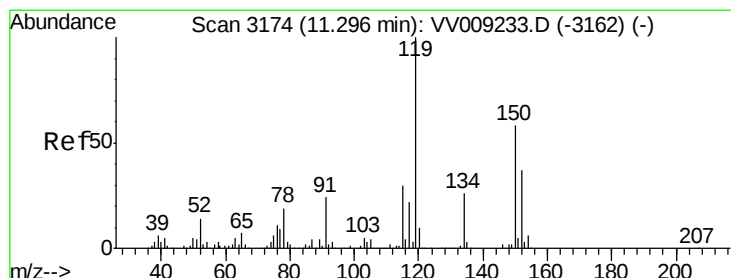
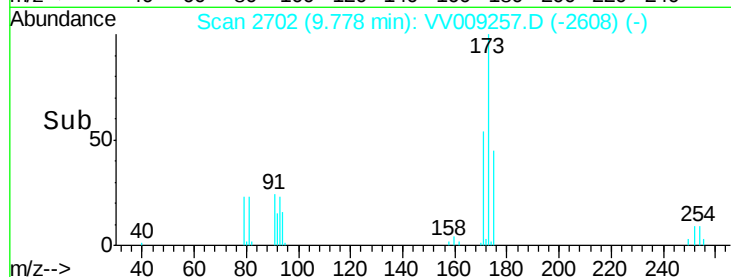
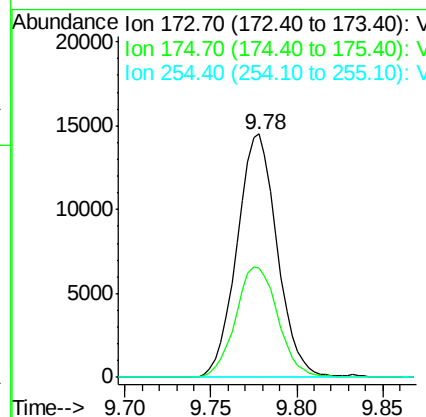
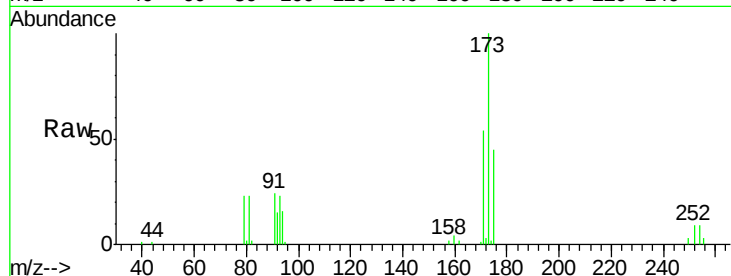
ClientSampleId :

VSTDICCC050

Tot Ion:173	Resp:	23666
Ion Ratio	Lower	Upper
173 100		
175 47.8	23.4	70.0
254 0.0	0.0	0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

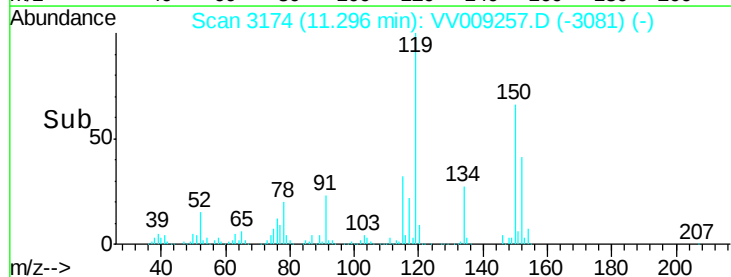
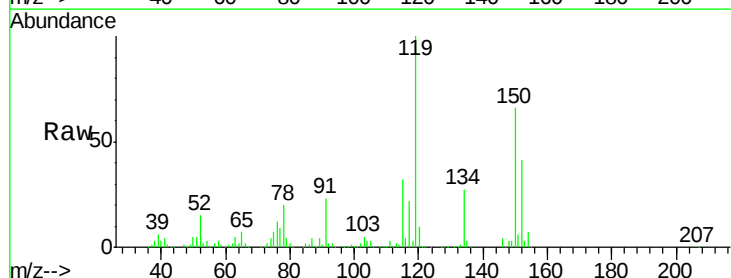
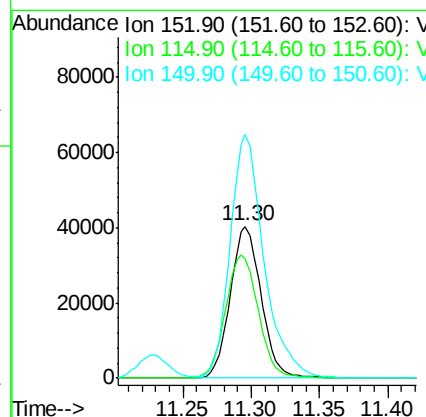
RT: 11.30 min Scan# 3174

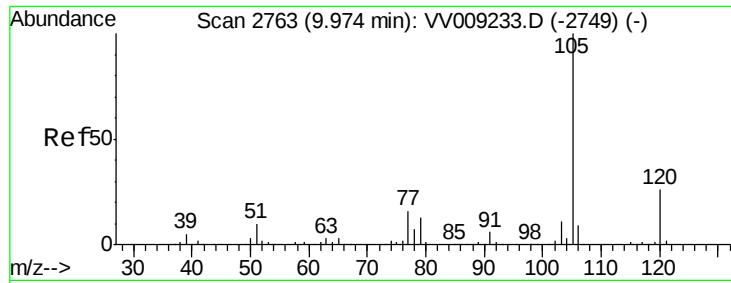
Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Tgt Ion:152	Resp:	63658
Ion Ratio	Lower	Upper
152 100		
115 85.9	45.0	134.8
150 176.0	0.0	346.4





#73

Isopropylbenzene

Concen: 41.441 ug/l

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 217841

Ion Ratio Lower Upper

105 100

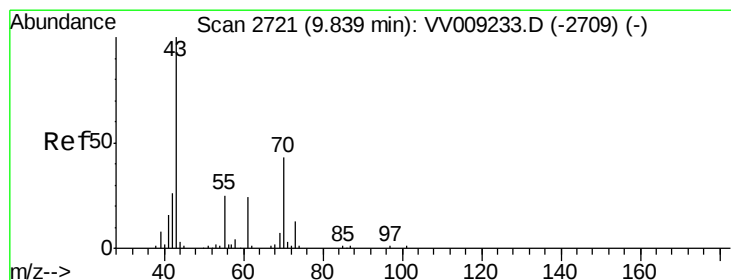
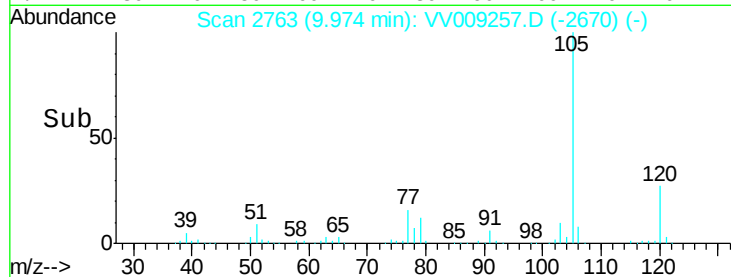
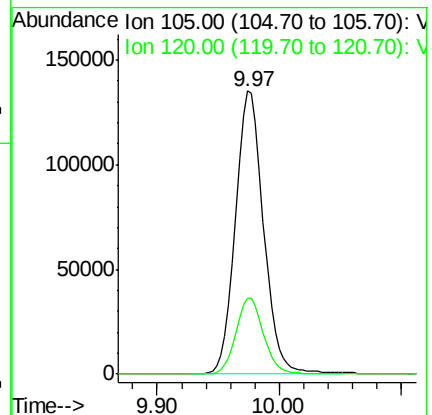
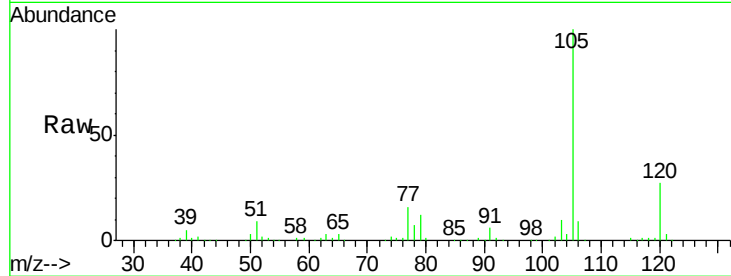
120 26.2 12.9 38.7

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#74

N-ethyl acetate

Concen: 52.918 ug/l

RT: 9.84 min Scan# 2721

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Tgt Ion: 43 Resp: 51440

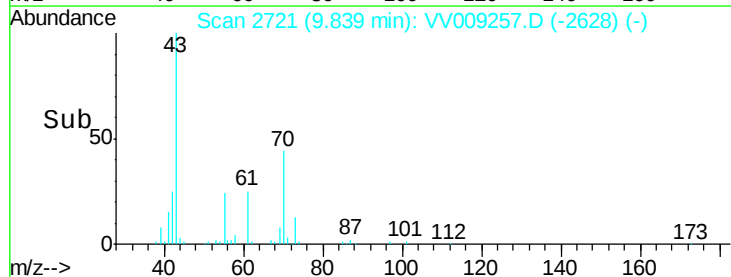
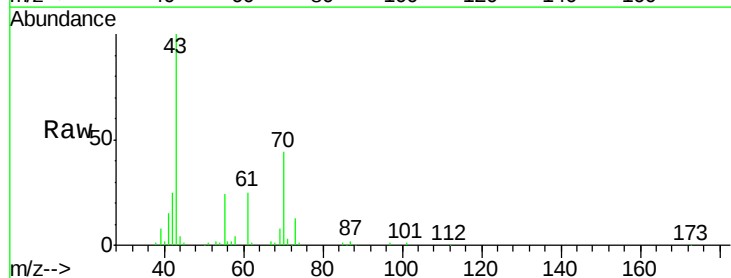
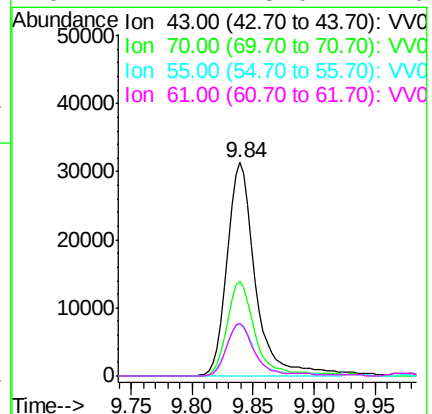
Ion Ratio Lower Upper

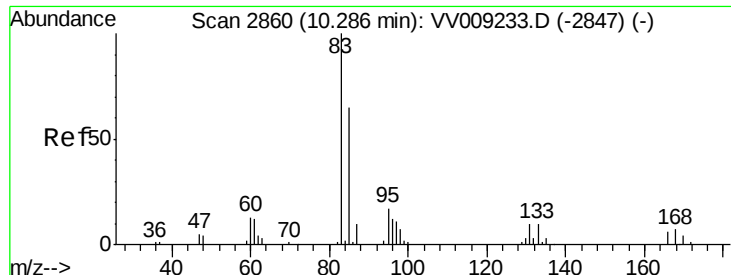
43 100

70 44.2 33.0 49.6

55 25.5 18.7 28.1

61 24.1 18.0 27.0





#75

1,1,2,2-Tetrachloroethane

Concen: 51.791 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

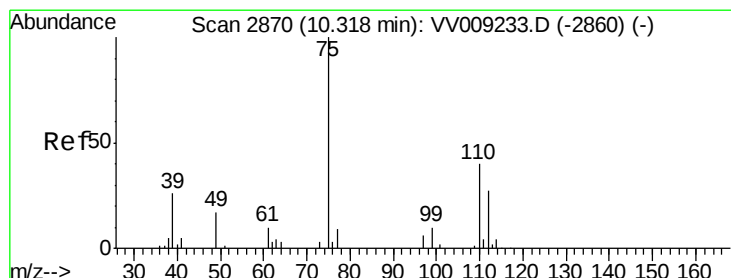
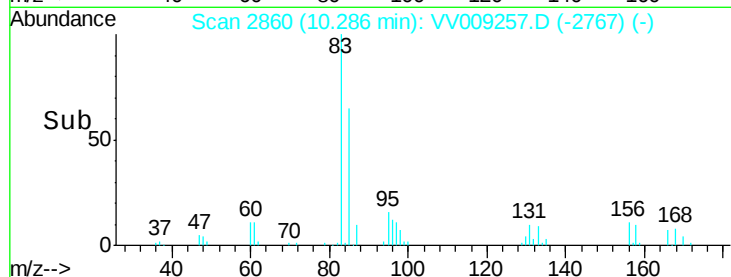
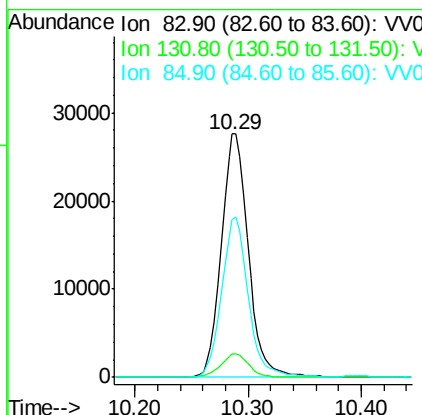
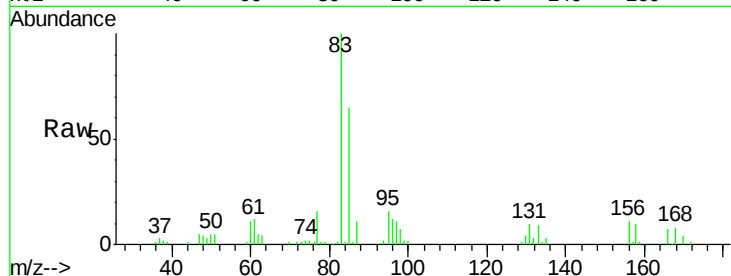
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	45897
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.1	15.3
85	64.8	32.6	98.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 52.005 ug/l m

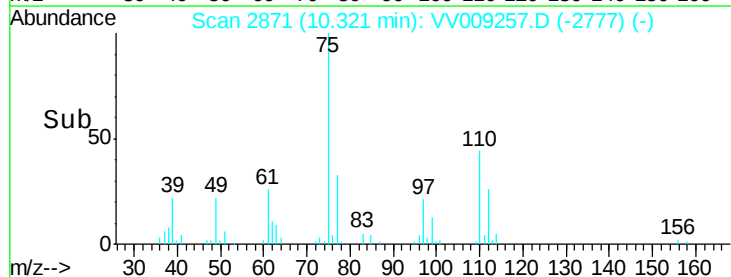
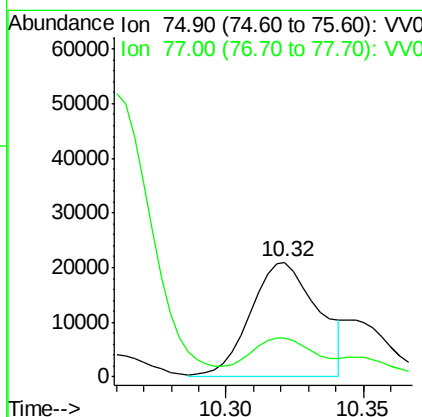
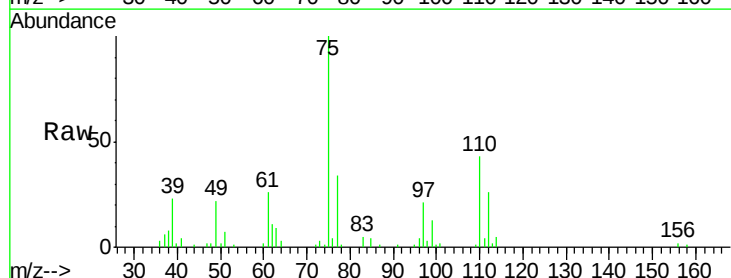
RT: 10.32 min Scan# 2871

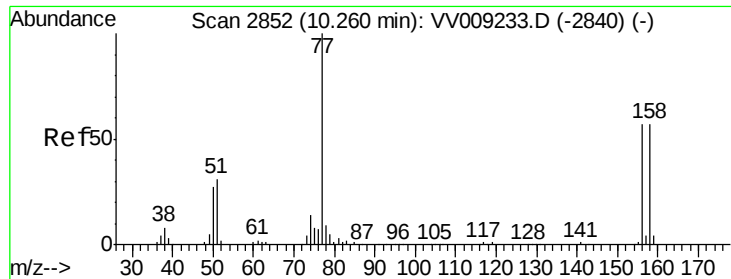
Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Tgt Ion:	75	Resp:	36245
Ion Ratio	Lower	Upper	
75	100		
77	11.6	24.6	73.8#





#77

Bromobenzene

Concen: 44.803 ug/l

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion:156 Resp: 50375

Ion Ratio Lower Upper

156 100

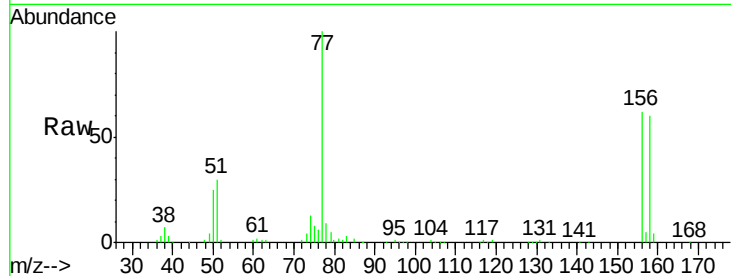
77 163.3 86.0 258.0

158 96.7 49.8 149.3

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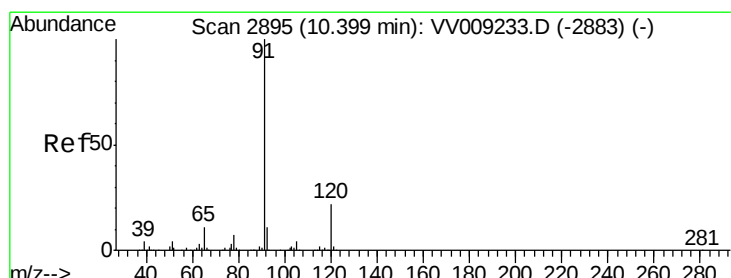
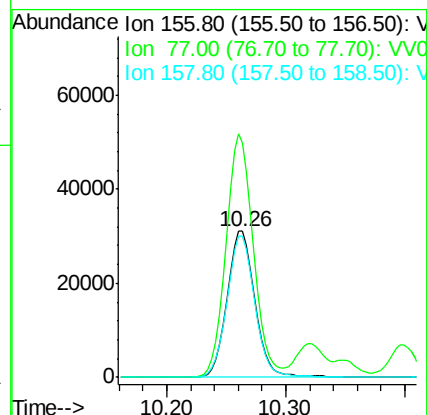
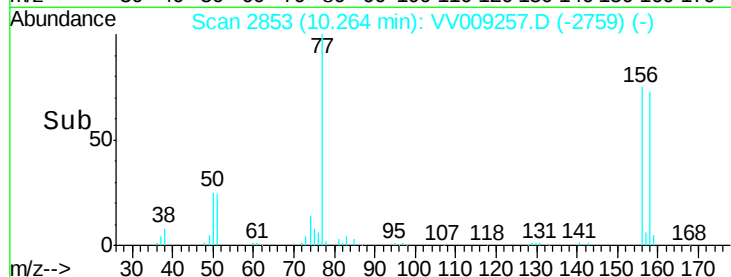
1/25/2019 10:01:31 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 41.383 ug/l

RT: 10.40 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VV009257.D

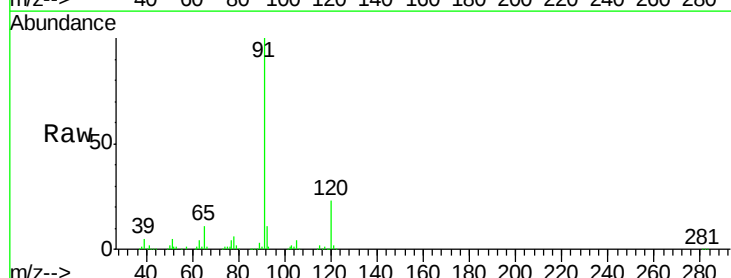
Acq: 24 Jan 2019 13:48

Tgt Ion: 91 Resp: 257885

Ion Ratio Lower Upper

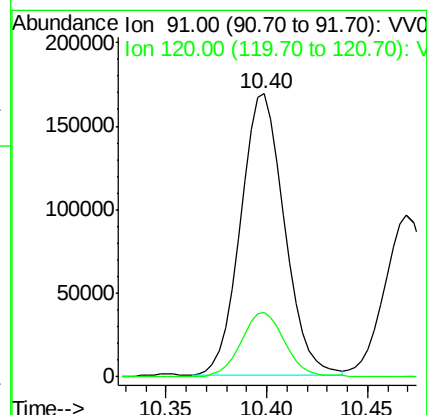
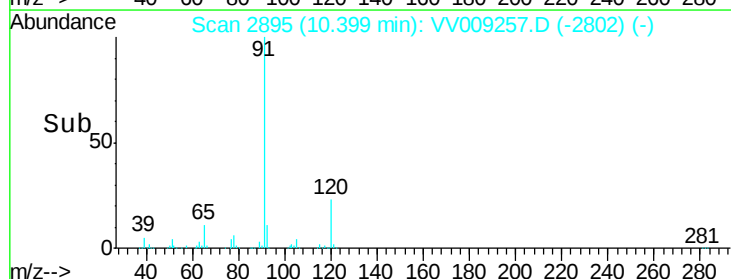
91 100

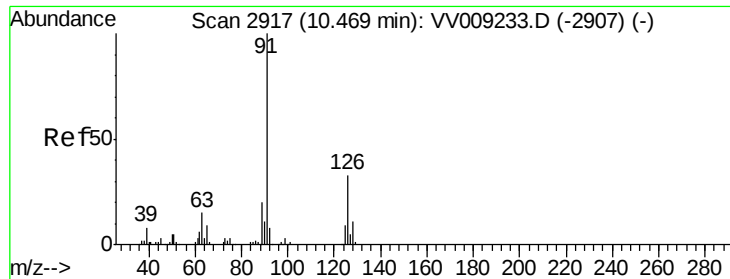
120 23.2 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 40.814 ug/l

RT: 10.47 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 153463

Ion Ratio Lower Upper

91 100

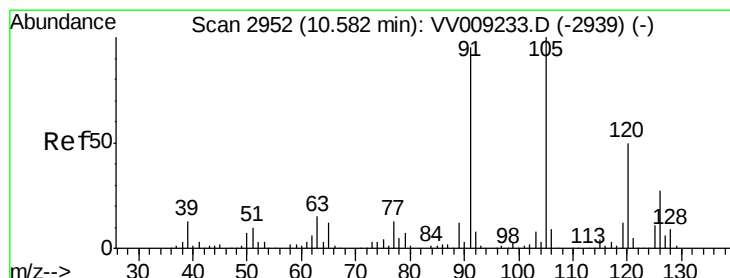
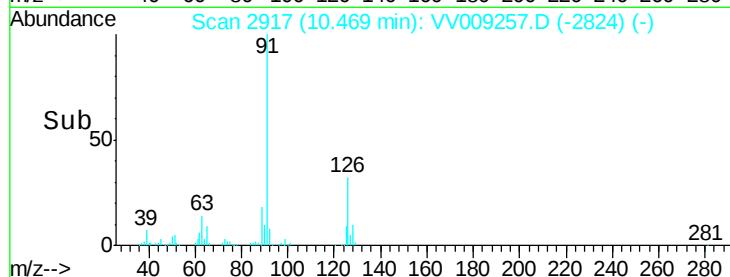
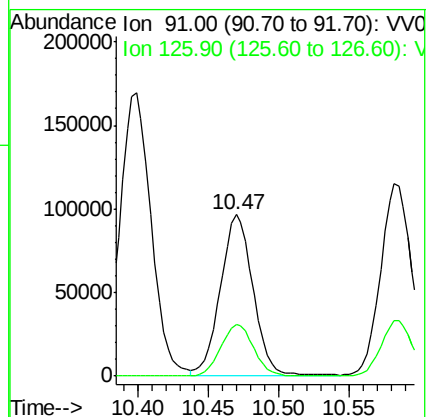
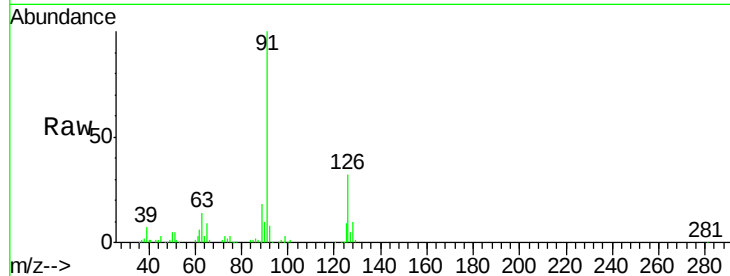
126 32.9 16.2 48.6

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#80

1,3,5-Trimethylbenzene

Concen: 41.803 ug/l

RT: 10.59 min Scan# 2953

Delta R.T. 0.00 min

Lab File: VV009257.D

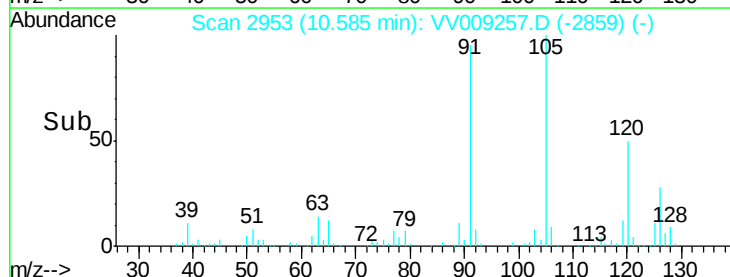
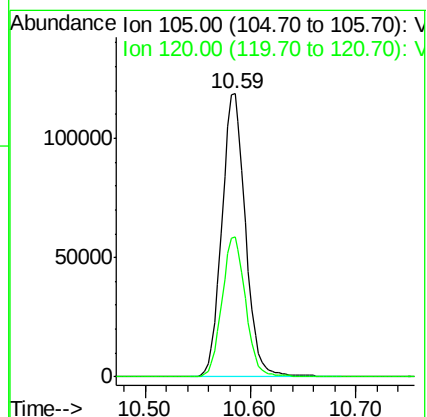
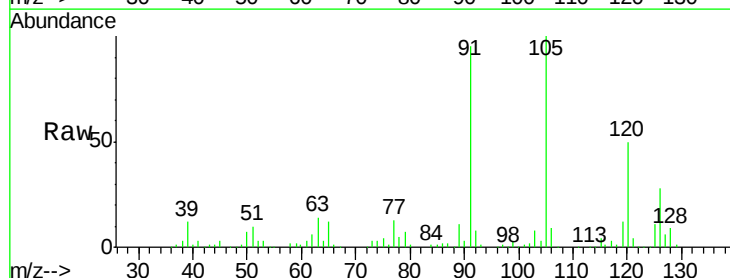
Acq: 24 Jan 2019 13:48

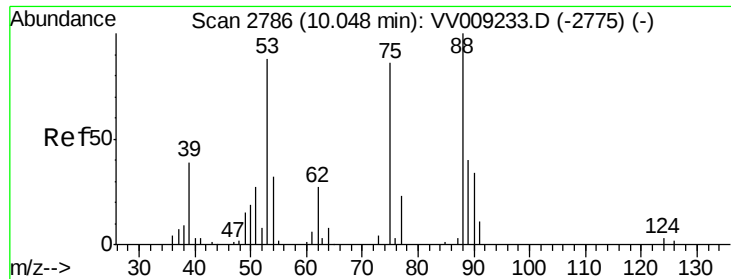
Tgt Ion: 105 Resp: 184292

Ion Ratio Lower Upper

105 100

120 49.5 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 52.733 ug/l

RT: 10.05 min Scan# 2786

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

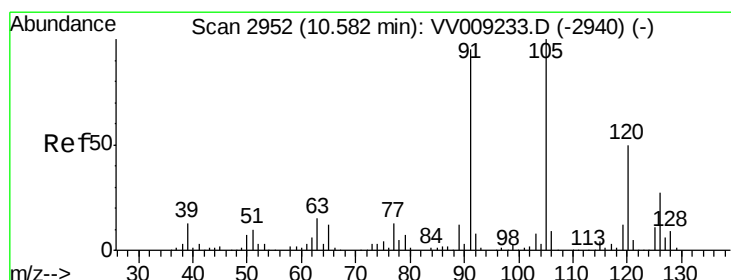
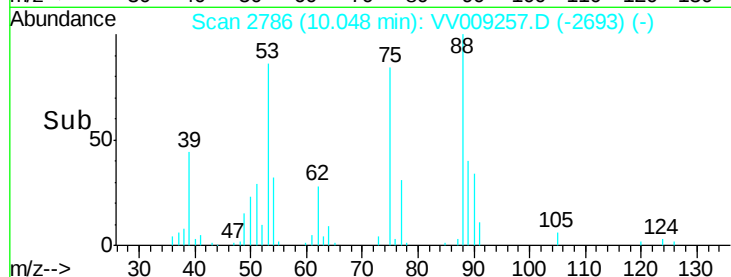
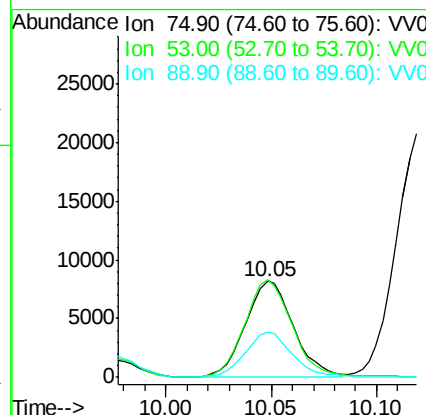
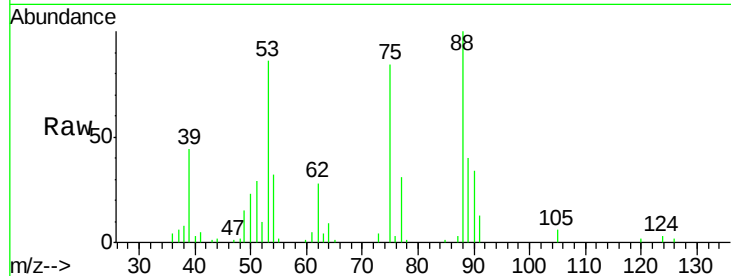
ClientSampleId :

VSTDICCC050

Tot Ion:	75	Resp:	12987
Ion	Ratio	Lower	Upper
75	100		
53	100.2	82.1	123.1
89	46.0	36.2	54.4

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#82

4-Chlorotoluene

Concen: 41.311 ug/l

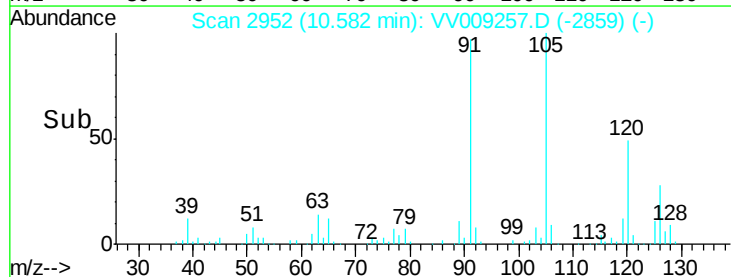
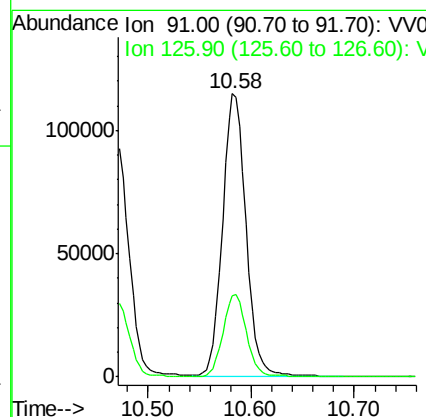
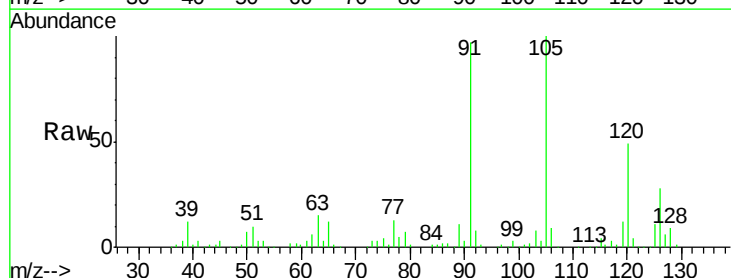
RT: 10.58 min Scan# 2952

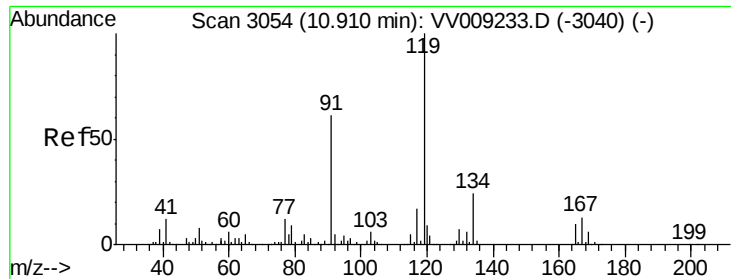
Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Tgt Ion:	91	Resp:	182956
Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.3	42.9





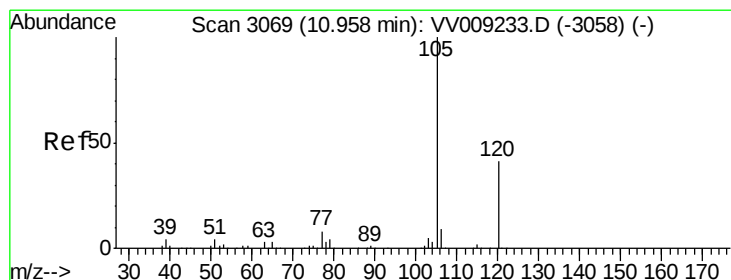
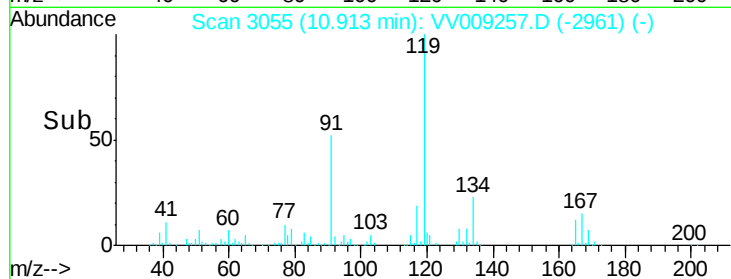
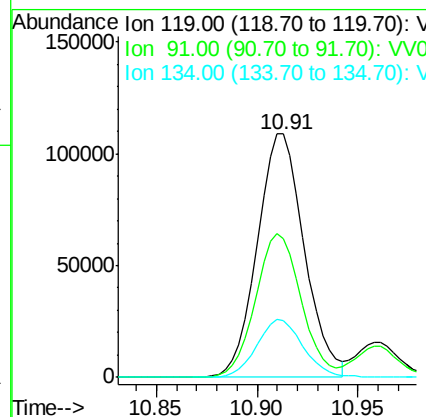
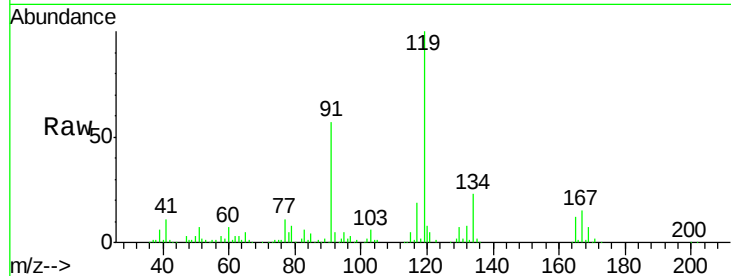
#83
tert-Butylbenzene
Concen: 42.196 ug/l
RT: 10.91 min Scan# 3055
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	177133		
91	57.2	30.0	90.1	
134	23.7	11.9	35.7	

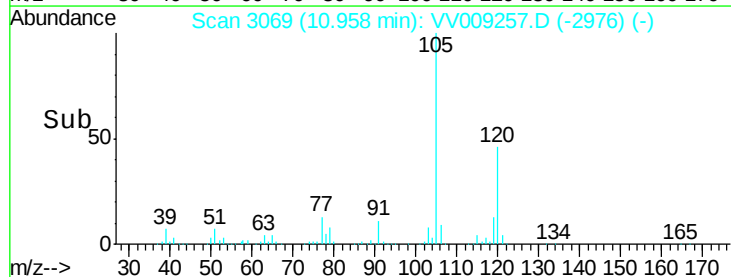
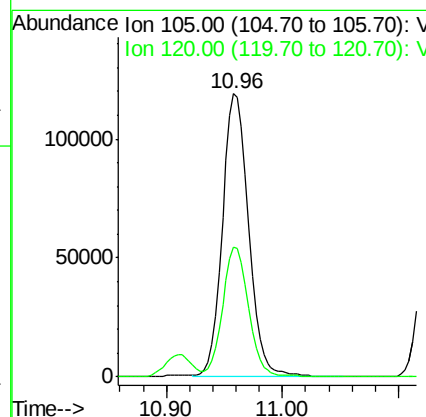
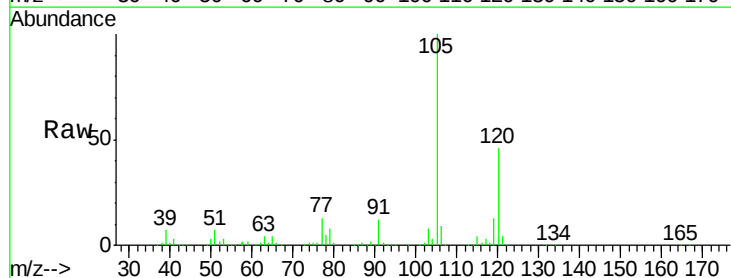
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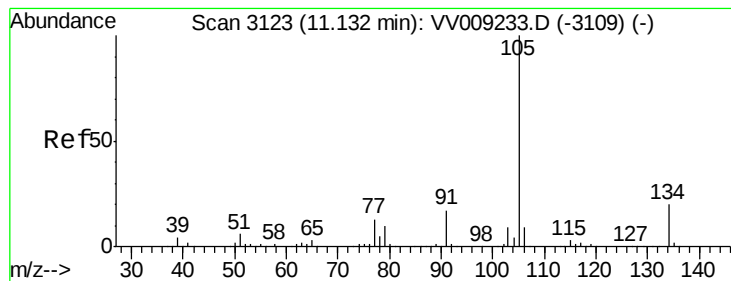
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#84
1,2,4-Trimethylbenzene
Concen: 42.164 ug/l
RT: 10.96 min Scan# 3069
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	187513		
120	45.4	22.6	67.7	





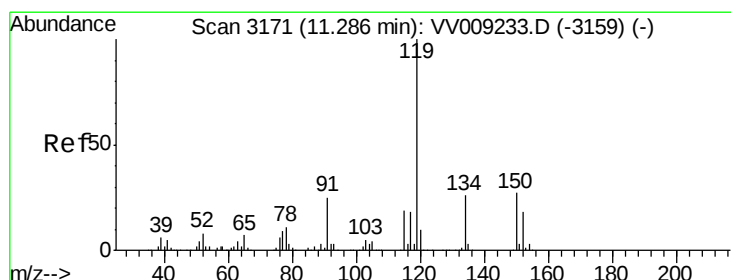
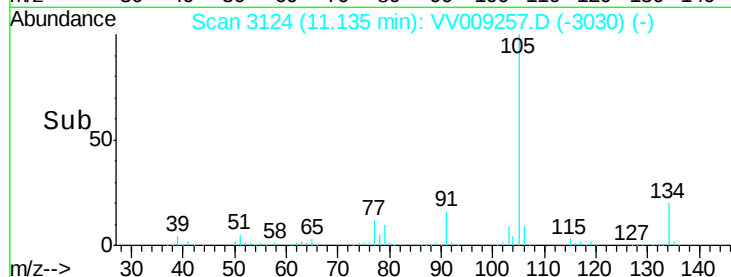
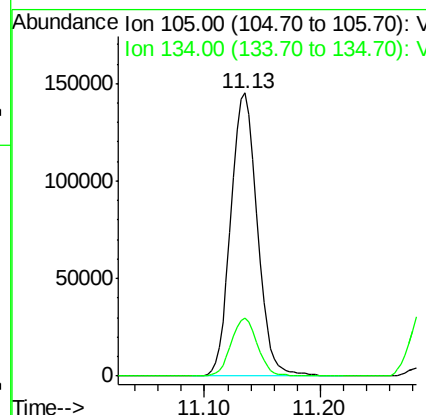
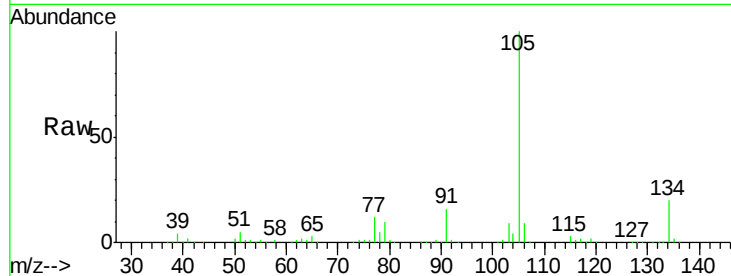
#85
 sec-Butylbenzene
 Concen: 41.624 ug/l
 RT: 11.13 min Scan# 3124
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion:105 Resp: 228857
 Ion Ratio Lower Upper
 105 100
 134 20.4 10.1 30.3

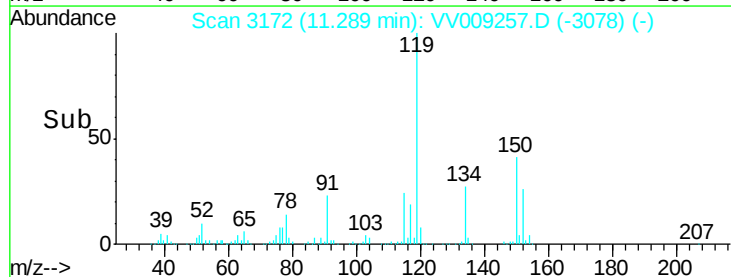
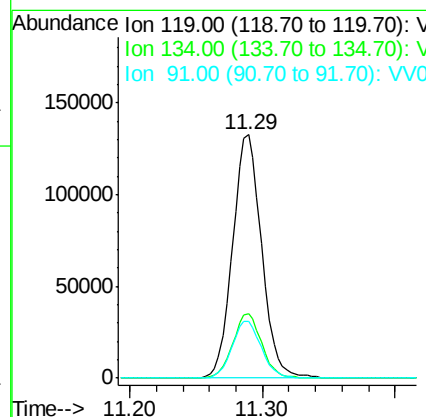
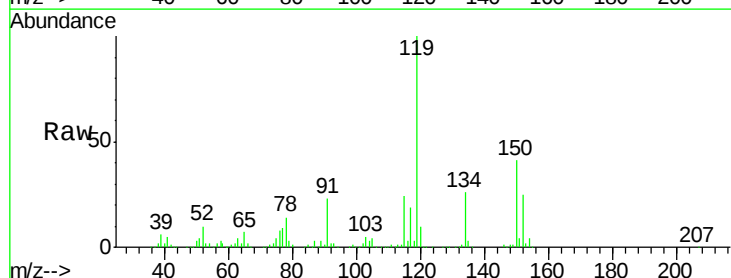
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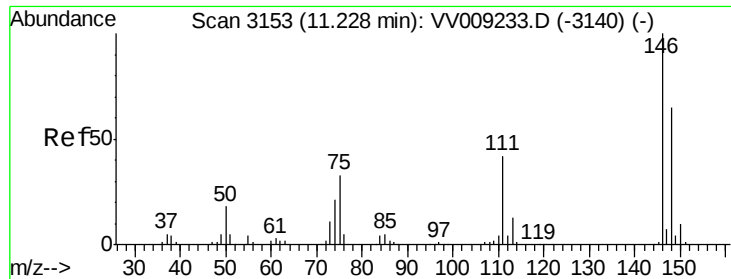
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#86
 p-Isopropyltoluene
 Concen: 41.944 ug/l
 RT: 11.29 min Scan# 3172
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Tgt Ion:119 Resp: 201924
 Ion Ratio Lower Upper
 119 100
 134 26.3 13.0 38.9
 91 23.8 12.4 37.2





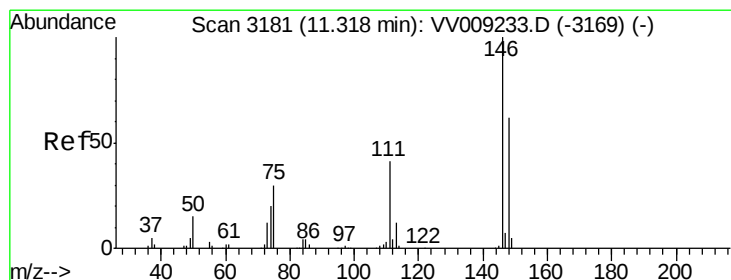
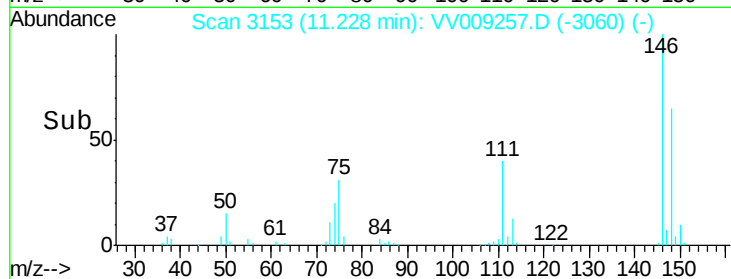
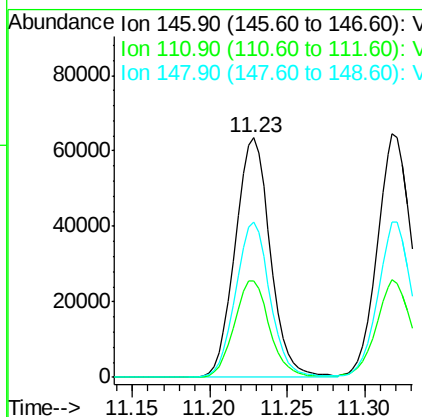
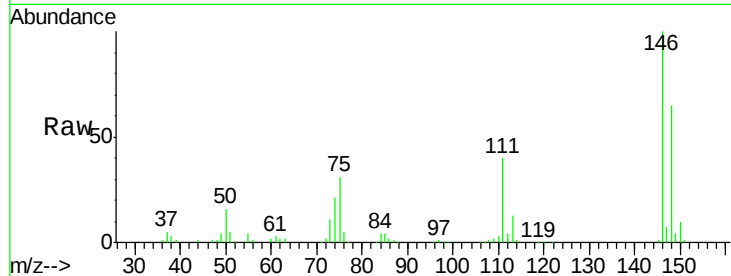
#87
 1,3-Dichlorobenzene
 Concen: 43.019 ug/l
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.1	63.4
148	63.5	32.1	96.3

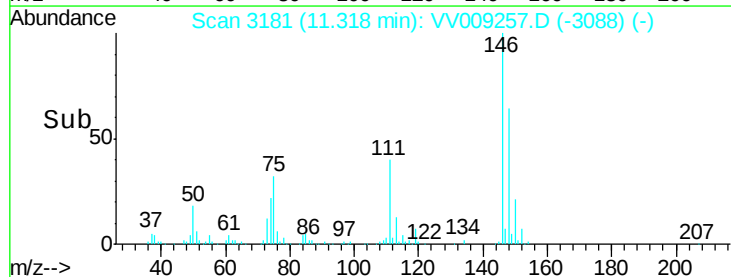
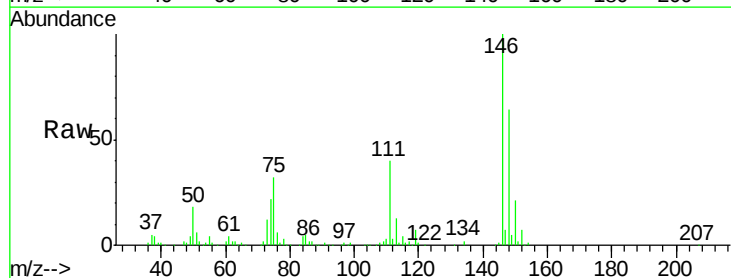
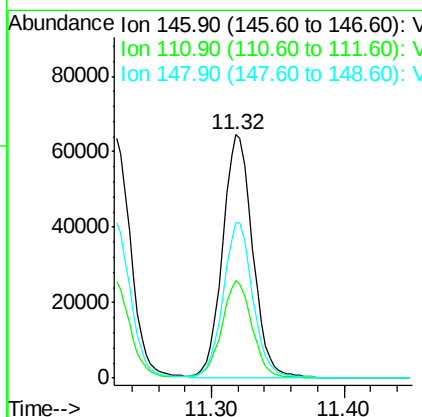
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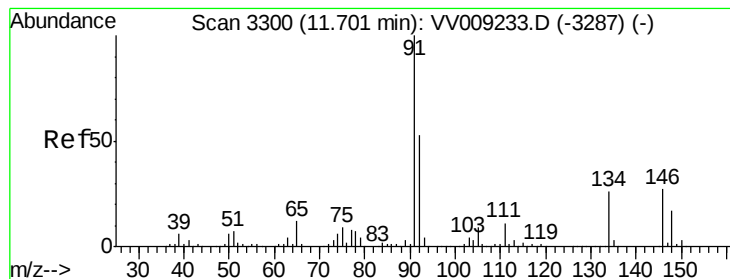
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#88
 1,4-Dichlorobenzene
 Concen: 43.279 ug/l
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.5	61.5
148	63.2	31.4	94.3





#89

n-Butylbenzene

Concen: 41.400 ug/l

RT: 11.70 min Scan# 3300

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 193459

Ion Ratio Lower Upper

91 100

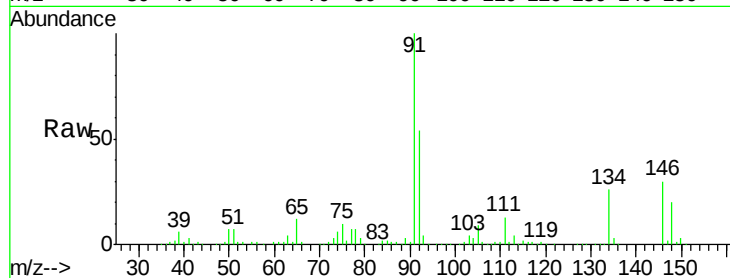
92 54.1 27.2 81.5

134 26.2 12.6 37.8

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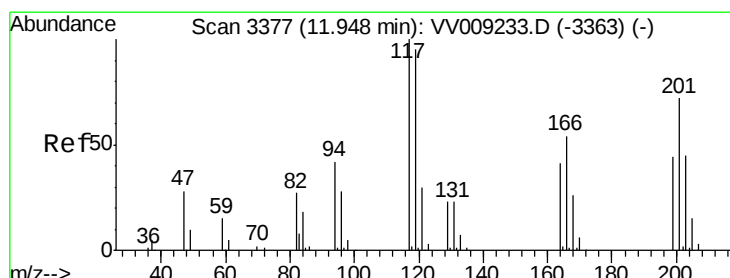
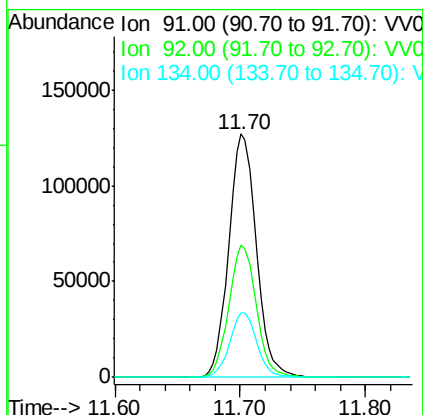
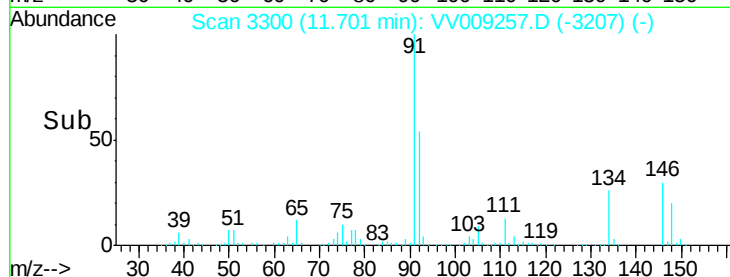


Abundance Ion 91.00 (90.70 to 91.70): VV009257.D (-3287) (-)

Ion 92.00 (91.70 to 92.70): VV009257.D (-3287) (-)

Ion 134.00 (133.70 to 134.70): VV009257.D (-3287) (-)

Time--> 11.60 11.70 11.80



#90

Hexachloroethane

Concen: 40.804 ug/l

RT: 11.95 min Scan# 3377

Delta R.T. 0.00 min

Lab File: VV009257.D

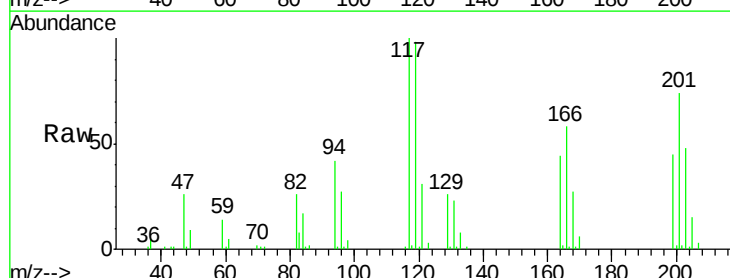
Acq: 24 Jan 2019 13:48

Tgt Ion: 117 Resp: 34932

Ion Ratio Lower Upper

117 100

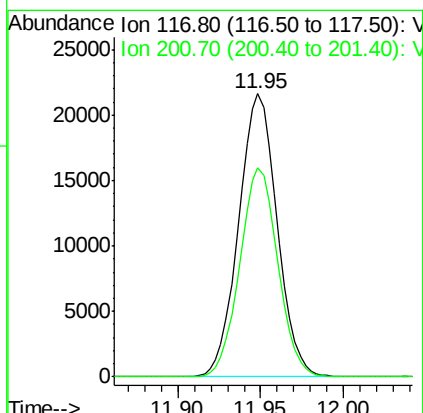
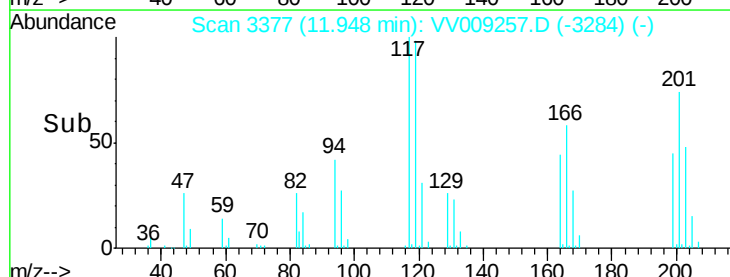
201 72.9 35.2 105.6

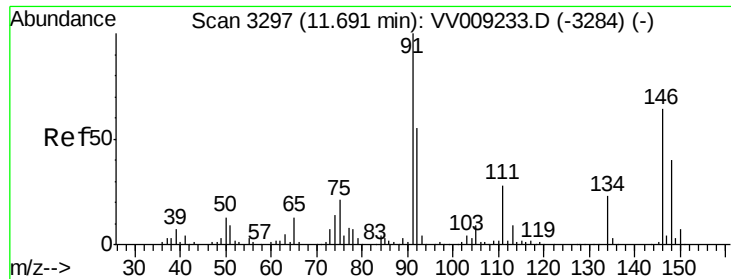


Abundance Ion 116.80 (116.50 to 117.50): VV009257.D (-3284) (-)

Ion 200.70 (200.40 to 201.40): VV009257.D (-3284) (-)

Time--> 11.90 11.95 12.00





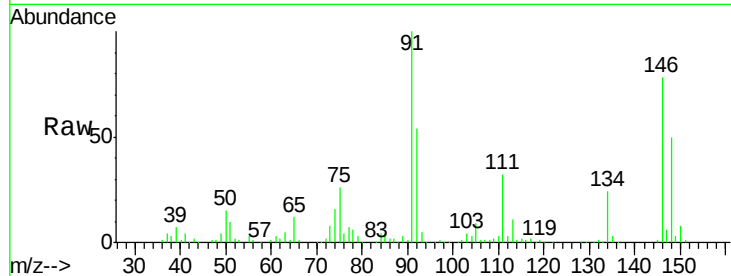
#91
 1,2-Dichlorobenzene
 Concen: 43.743 ug/l
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

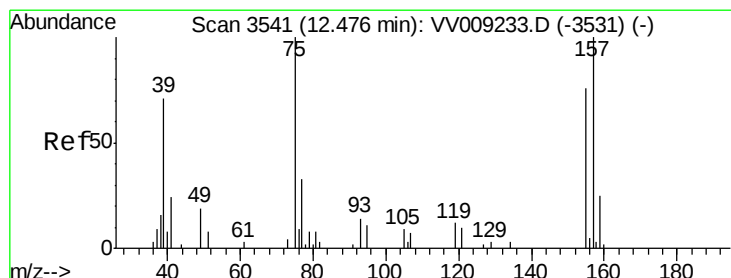
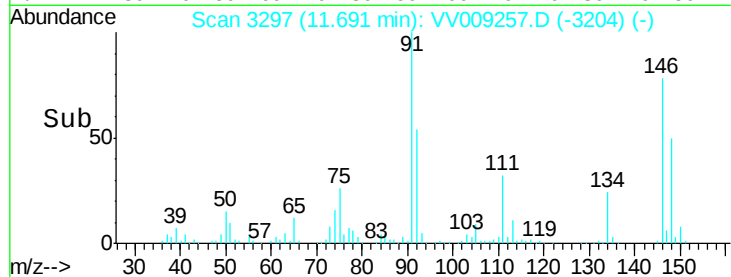
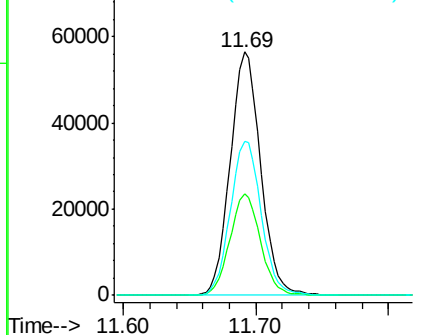
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.9	65.8
148	64.2	31.6	95.0

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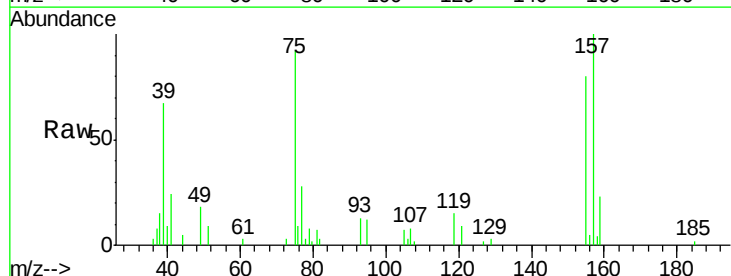


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

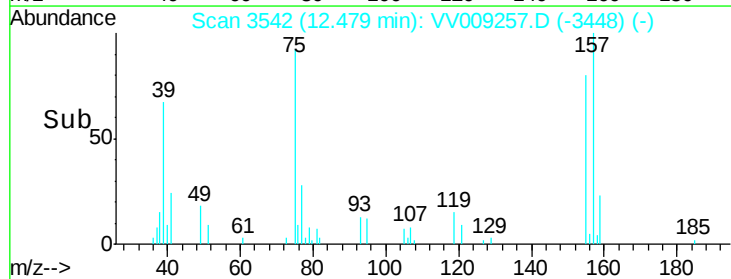
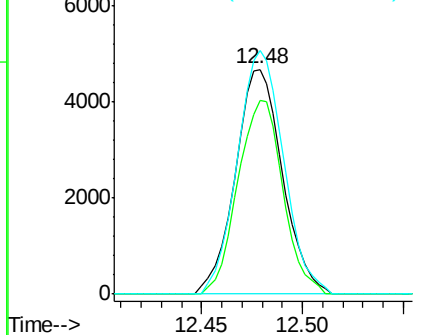


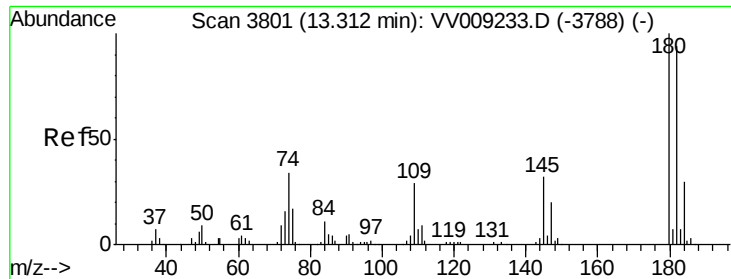
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.519 ug/l
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV009257.D
 Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.3	38.0	114.0
157	106.4	50.8	152.4



Abundance Ion 74.90 (74.60 to 75.60): VV0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





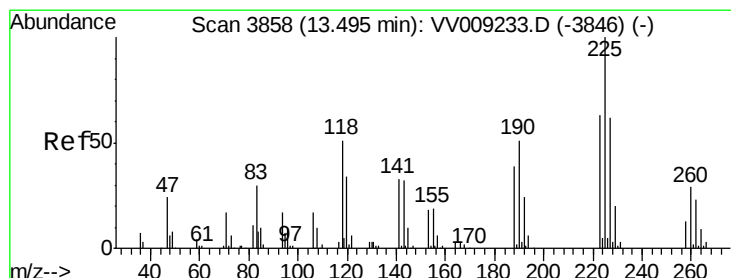
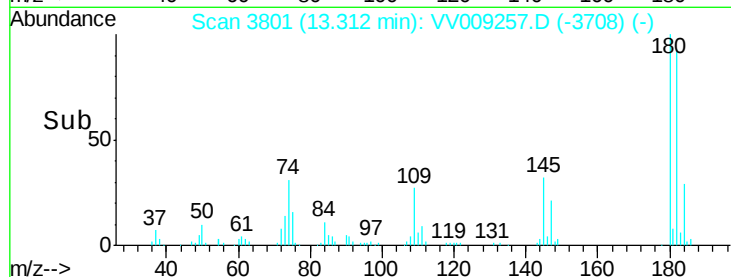
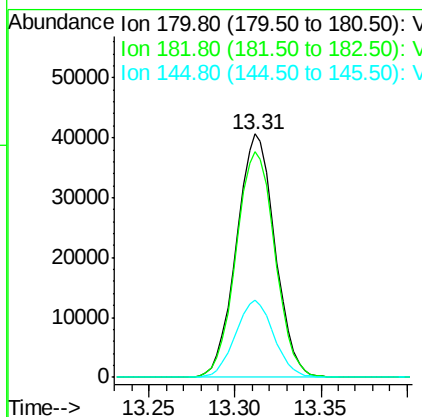
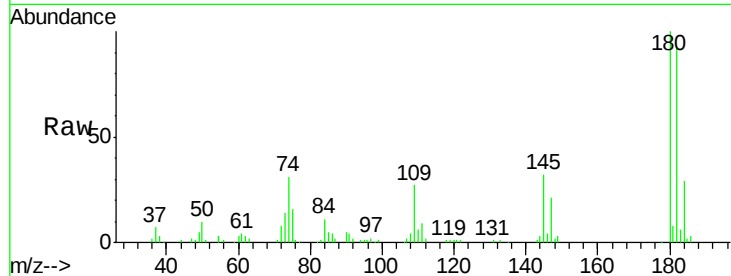
#93
1,2,4-Trichlorobenzene
Concen: 47.586 ug/l
RT: 13.31 min Scan# 3801
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.1	141.4
145	31.6	16.0	48.0

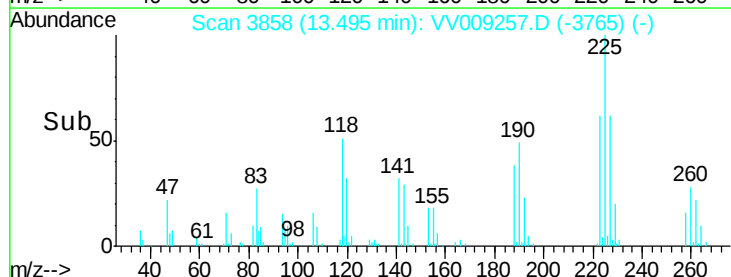
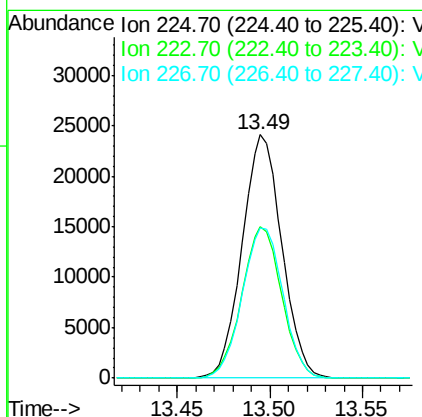
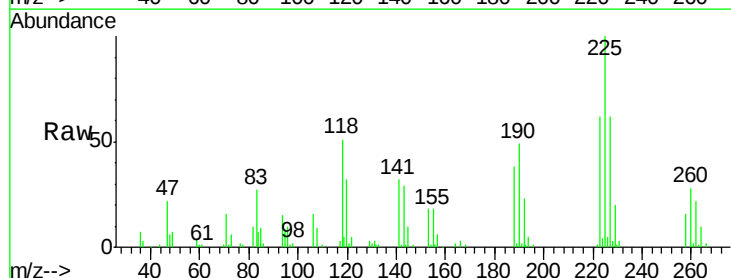
Manual Integrations
APPROVED

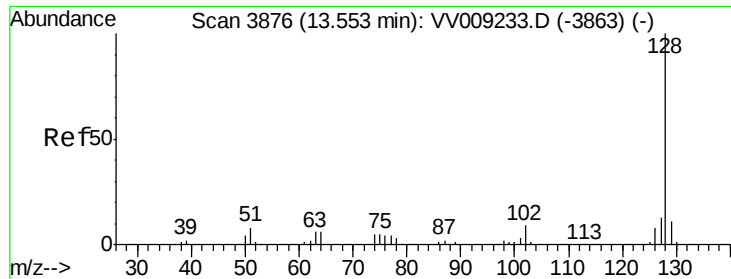
MMDadoda
1/25/2019 10:01:31 AM



#94
Hexachlorobutadiene
Concen: 43.733 ug/l
RT: 13.49 min Scan# 3858
Delta R.T. 0.00 min
Lab File: VV009257.D
Acq: 24 Jan 2019 13:48

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.7	95.1
227	63.1	31.6	95.0





#95

Naphthalene

Concen: 55.530 ug/l

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion:128 Resp: 127378

Ion Ratio Lower Upper

128 100

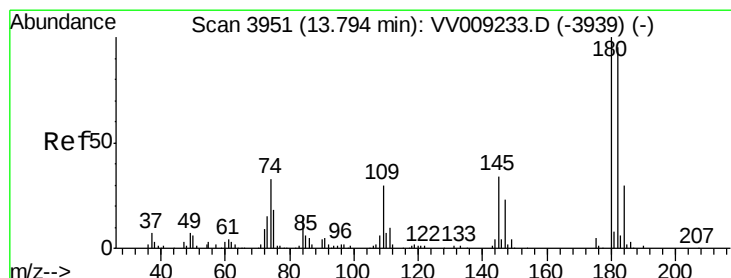
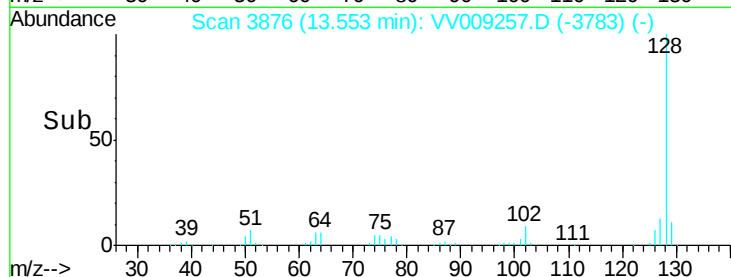
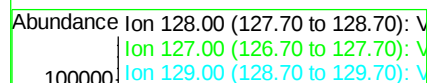
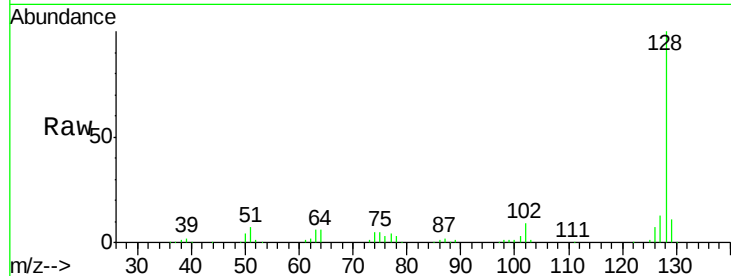
127 13.0 10.7 16.1

129 10.7 8.8 13.2

Manual Integrations
APPROVED

MMDadoda

1/25/2019 10:01:31 AM



#96

1,2,3-Trichlorobenzene

Concen: 49.750 ug/l

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009257.D

Acq: 24 Jan 2019 13:48

Tgt Ion:180 Resp: 55889

Ion Ratio Lower Upper

180 100

182 95.1 47.4 142.2

145 34.4 17.2 51.5

