

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011819\
 Data File : VV009223.D
 Acq On : 18 Jan 2019 16:27
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00 G/5ML/MSVOA V/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 10:45:21 AM

Quant Time: Jan 19 03:17:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\82V011819S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 19 02:50:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.73	168	89476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.66	114	156426	50.00	ug/l	0.00
63) Chlorobenzene-d5	8.89	117	147763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.30	152	74260	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.08	65	26567	22.21	ug/l	0.00
Spiked Amount			Recovery	=	44.42%	
35) Dibromofluoromethane	4.64	113	22308	21.72	ug/l	0.00
Spiked Amount			Recovery	=	43.44%	
50) Toluene-d8	7.36	98	85239	21.93	ug/l	0.00
Spiked Amount			Recovery	=	43.86%	
62) 4-Bromofluorobenzene	10.12	95	33161	21.92	ug/l	0.00
Spiked Amount			Recovery	=	43.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.14	85	13405	19.401	ug/l	95
3) Chloromethane	1.25	50	21816	22.266	ug/l	99
4) Vinyl Chloride	1.33	62	19538	20.290	ug/l	100
5) Bromomethane	1.53	94	12942	20.551	ug/l	100
6) Chloroethane	1.60	64	12645	21.033	ug/l	99
7) Trichlorofluoromethane	1.76	101	10812	19.303	ug/l	100
8) Diethyl Ether	1.96	74	9892	21.150	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.14	101	18065	20.766	ug/l	97
10) Methyl Iodide	2.26	142	30303	21.606	ug/l	100
11) Tert butyl alcohol	2.66	59	8524	122.897	ug/l	95
12) 1,1-Dichloroethene	2.14	96	18218	21.748	ug/l	92
13) Acrolein	2.06	56	7227	126.978	ug/l	99
14) Allyl chloride	2.42	41	32218	21.322	ug/l	98
15) Acrylonitrile	2.76	53	21488	109.533	ug/l	99
16) Acetone	2.18	43	30397	123.409	ug/l	99
17) Carbon Disulfide	2.32	76	53284	20.541	ug/l	98
18) Methyl Acetate	2.45	43	15994	24.723	ug/l	96
19) Methyl tert-butyl Ether	2.79	73	28955	21.146	ug/l	96
20) Methylene Chloride	2.53	84	21426	22.424	ug/l	92
21) trans-1,2-Dichloroethene	2.78	96	19571	21.174	ug/l	99
22) Diisopropyl ether	3.33	45	74160	21.555	ug/l	97
23) Vinyl Acetate	3.30	43	203248	108.596	ug/l	99
24) 1,1-Dichloroethane	3.22	63	43603	21.535	ug/l	99
25) 2-Butanone	4.02	43	35813	115.890	ug/l	99
26) 2,2-Dichloropropane	3.95	77	23208	20.542	ug/l	98
27) cis-1,2-Dichloroethene	3.95	96	24786	20.940	ug/l	98
28) Bromochloromethane	4.29	49	17380	20.436	ug/l	99
29) Tetrahydrofuran	4.39	42	21074	113.889	ug/l	94
30) Chloroform	4.42	83	44908	21.047	ug/l	97
31) Cyclohexane	4.72	56	36232	20.966	ug/l	94
32) 1,1,1-Trichloroethane	4.65	97	35342	20.429	ug/l	99
36) 1,1-Dichloropropene	4.87	75	32386	21.207	ug/l	97
37) Ethyl Acetate	4.13	43	14301	22.151	ug/l	98
38) Carbon Tetrachloride	4.87	117	32460	20.854	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.17	83	36636	19.962	ug/l	99
40) Benzene	5.14	78	93175	20.973	ug/l	100
41) Methacrylonitrile	4.31	41	8374	22.124	ug/l	97
42) 1,2-Dichloroethane	5.18	62	32379	21.740	ug/l	99
43) Isopropyl Acetate	5.33	43	28355	22.434	ug/l	100
44) Trichloroethene	5.96	130	23833	21.336	ug/l	98
45) 1,2-Dichloropropane	6.22	63	22209	20.026	ug/l	98
46) Dibromomethane	6.35	93	12665	21.624	ug/l	98
47) Bromodichloromethane	6.55	83	33673	21.658	ug/l	100
48) Methyl methacrylate	6.42	41	14030	21.154	ug/l	98
49) 1,4-Dioxane	6.41	88	3219	408.754	ug/l #	88
51) 4-Methyl-2-Pentanone	7.27	43	70848	107.198	ug/l	99
52) Toluene	7.43	92	57599	20.450	ug/l	96
53) t-1,3-Dichloropropene	7.69	75	31230	20.482	ug/l	95
54) cis-1,3-Dichloropropene	7.07	75	35783	20.315	ug/l	98
55) 1,1,2-Trichloroethane	7.88	97	17481	22.293	ug/l	97
56) Ethyl methacrylate	7.83	69	20172	20.467	ug/l	95
57) 1,3-Dichloropropane	8.06	76	31764	21.483	ug/l	99
58) 2-Chloroethyl Vinyl ether	6.94	63	1152	130.079	ug/l #	80
59) 2-Hexanone	8.18	43	52505	110.816	ug/l	97
60) Dibromochloromethane	8.29	129	20156	20.875	ug/l	99
61) 1,2-Dibromoethane	8.40	107	17045	21.749	ug/l	99
64) Tetrachloroethene	8.02	164	19153	20.899	ug/l	96
65) Chlorobenzene	8.93	112	64695	20.804	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.02	131	22216	20.117	ug/l	98
67) Ethyl Benzene	9.05	91	114606	20.439	ug/l	100
68) m/p-Xylenes	9.18	106	86628	41.407	ug/l	99
69) o-Xylene	9.59	106	40362	20.106	ug/l	96
70) Styrene	9.60	104	66290	20.132	ug/l	99
71) Bromoform	9.78	173	10640	19.906	ug/l #	98
73) Isopropylbenzene	9.97	105	113286	20.499	ug/l	99
74) N-amyl acetate	9.84	43	24507	20.864	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.29	83	21240	21.594	ug/l	99
76) 1,2,3-Trichloropropane	10.32	75	16451m	22.165	ug/l	
77) Bromobenzene	10.26	156	25384	21.034	ug/l	97
78) n-propylbenzene	10.40	91	134897	20.438	ug/l	100
79) 2-Chlorotoluene	10.47	91	81735	20.745	ug/l	99
80) 1,3,5-Trimethylbenzene	10.59	105	97588	20.758	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.05	75	5703	20.194	ug/l	97
82) 4-Chlorotoluene	10.58	91	101035	21.292	ug/l	98
83) tert-Butylbenzene	10.91	119	90740	20.372	ug/l	98
84) 1,2,4-Trimethylbenzene	10.96	105	100219	20.848	ug/l	99
85) sec-Butylbenzene	11.13	105	116681	20.383	ug/l	100
86) p-Isopropyltoluene	11.29	119	104469	20.531	ug/l	100
87) 1,3-Dichlorobenzene	11.23	146	51706	21.183	ug/l	99
88) 1,4-Dichlorobenzene	11.32	146	53064	21.543	ug/l	99
89) n-Butylbenzene	11.70	91	101311	20.284	ug/l	100
90) Hexachloroethane	11.95	117	18806	20.152	ug/l	96
91) 1,2-Dichlorobenzene	11.69	146	46858	21.347	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.48	75	3675	21.326	ug/l	97

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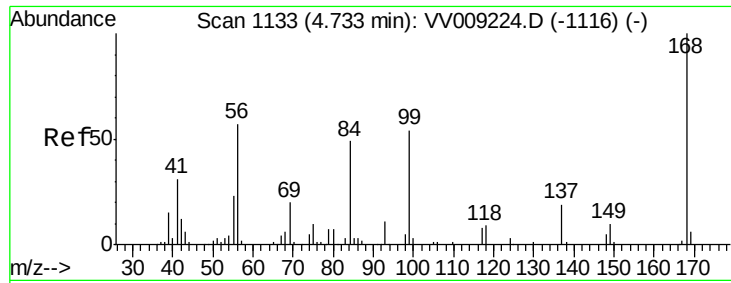
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.31	180	30936	21.184	ug/l	98
94) Hexachlorobutadiene	13.50	225	17396	20.807	ug/l	99
95) Naphthalene	13.55	128	52342	19.895	ug/l	99
96) 1,2,3-Trichlorobenzene	13.79	180	26243	20.386	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.73 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 89476

Ion Ratio Lower Upper

168 100

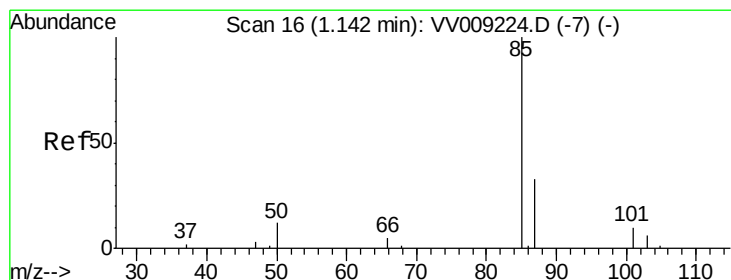
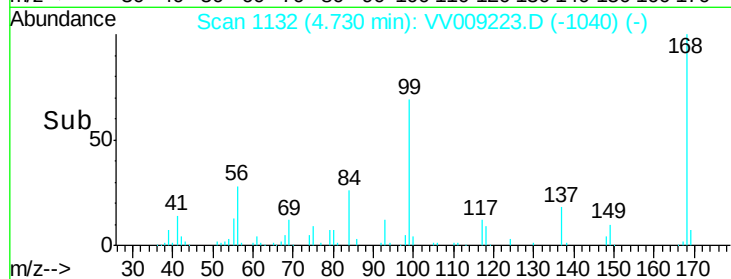
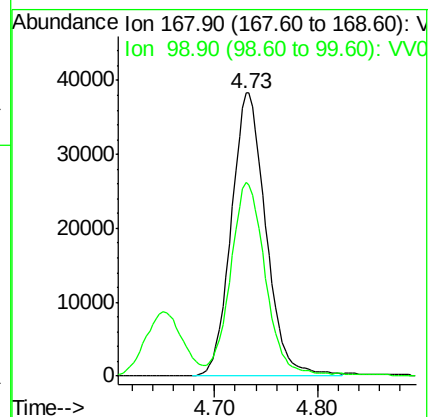
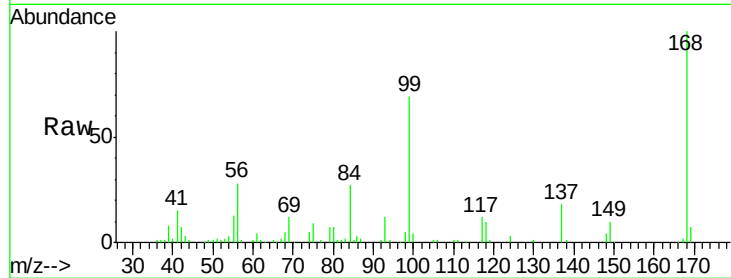
99 67.7 54.7 82.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 19.401 ug/l

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV009223.D

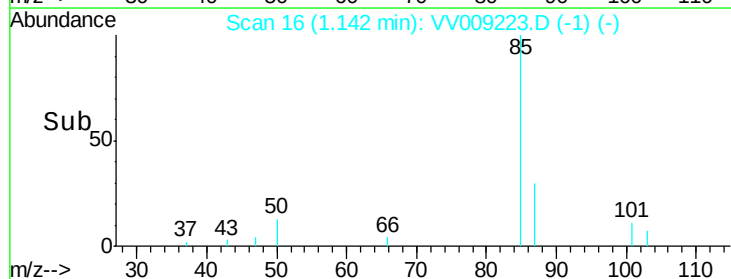
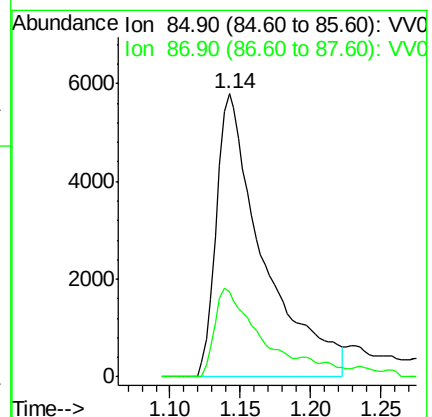
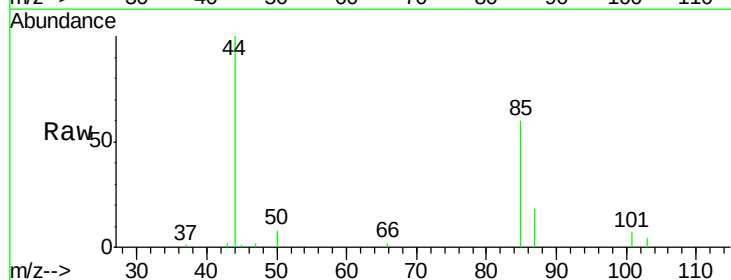
Acq: 18 Jan 2019 16:27

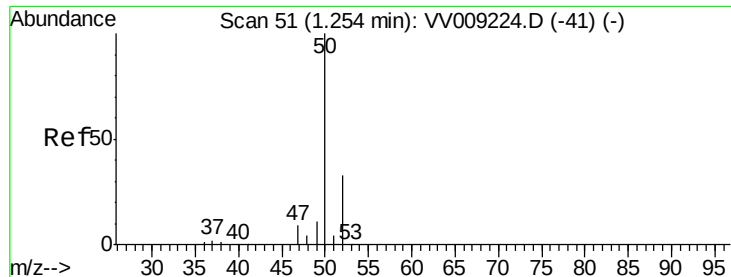
Tgt Ion: 85 Resp: 13405

Ion Ratio Lower Upper

85 100

87 30.0 16.4 49.4





#3

Chloromethane

Concen: 22.266 ug/l

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 21816

Ion Ratio Lower Upper

50 100

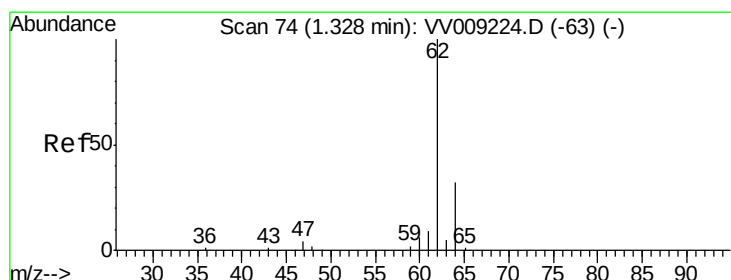
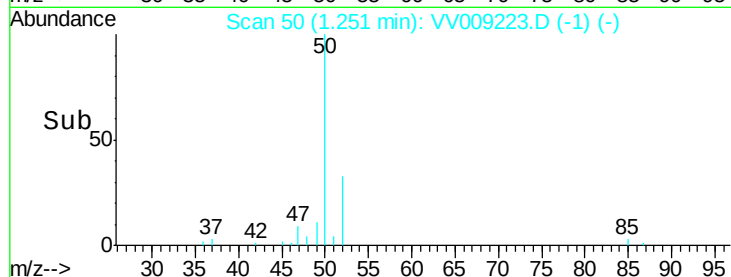
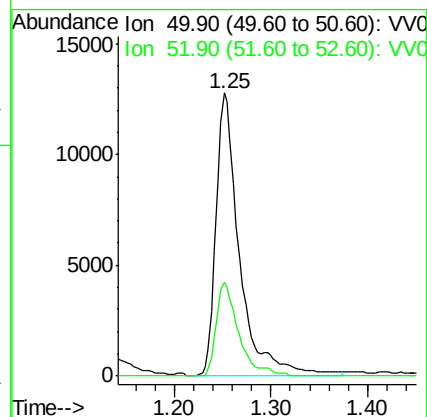
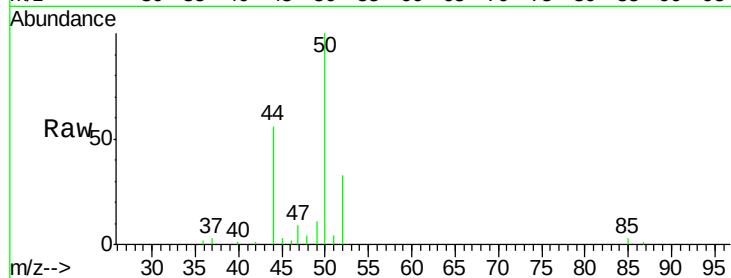
52 33.2 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.290 ug/l

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV009223.D

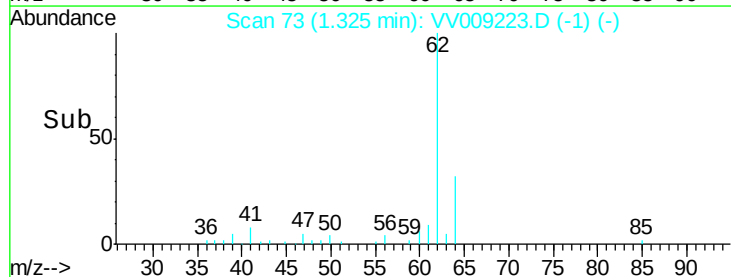
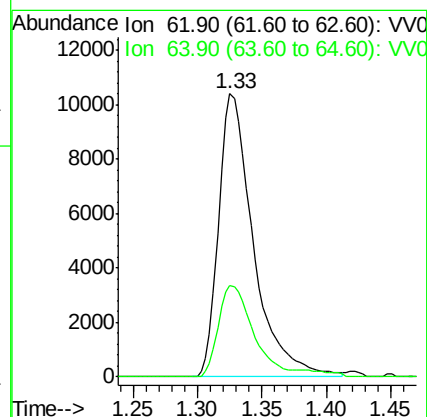
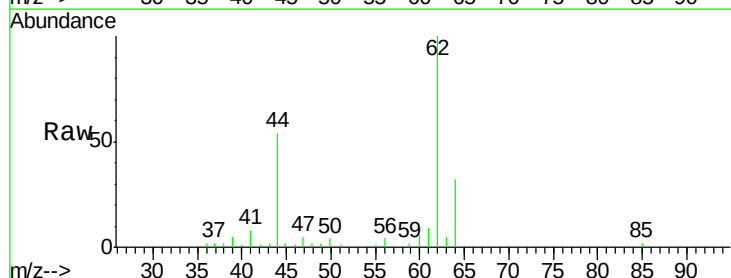
Acq: 18 Jan 2019 16:27

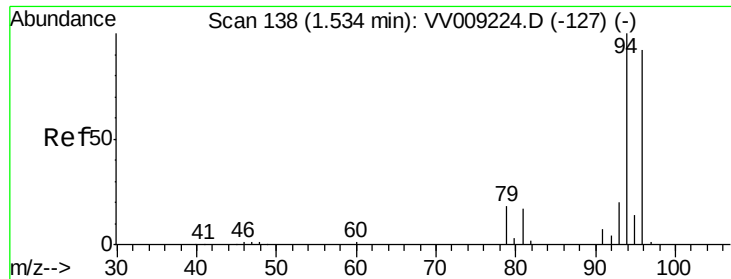
Tgt Ion: 62 Resp: 19538

Ion Ratio Lower Upper

62 100

64 32.2 25.7 38.5





#5

Bromomethane

Concen: 20.551 ug/l

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

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Tot Ion: 94 Resp: 12942

Ion Ratio Lower Upper

94 100

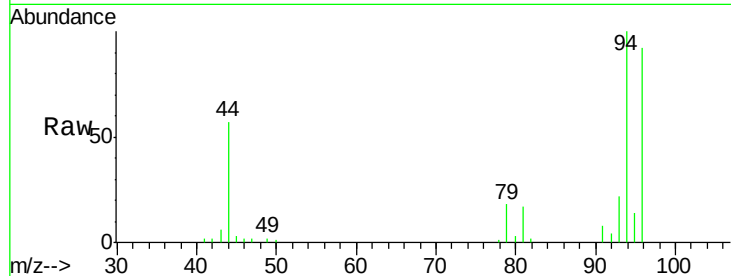
96 92.2 73.9 110.9

Manual Integrations

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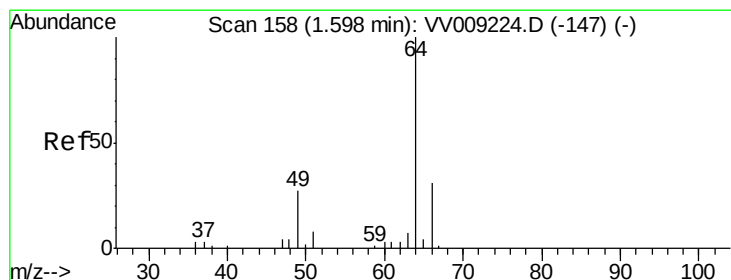
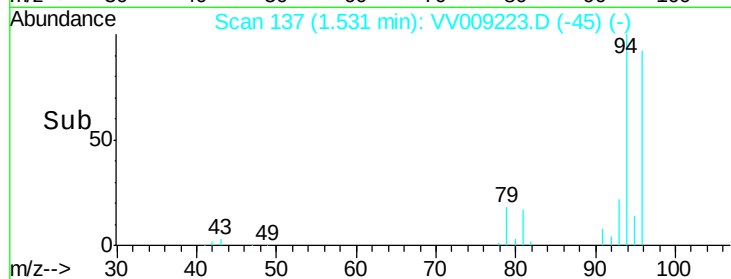
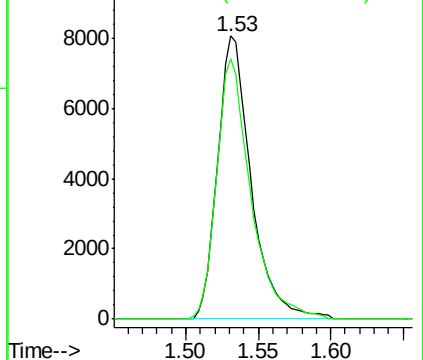
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Abundance Ion 93.90 (93.60 to 94.60): VV0

Ion 95.90 (95.60 to 96.60): VV0



#6

Chloroethane

Concen: 21.033 ug/l

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV009223.D

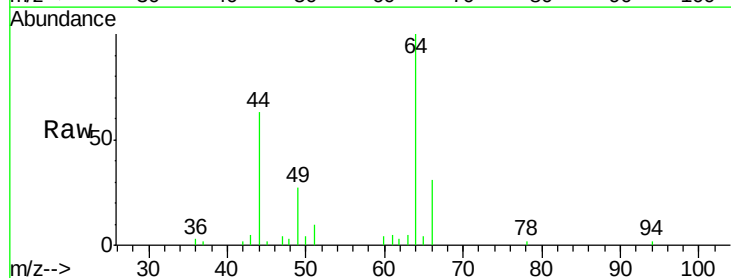
Acq: 18 Jan 2019 16:27

Tgt Ion: 64 Resp: 12645

Ion Ratio Lower Upper

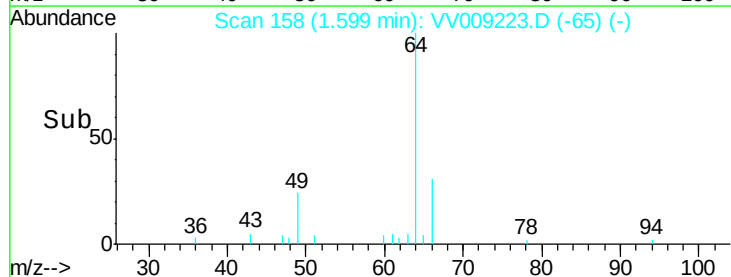
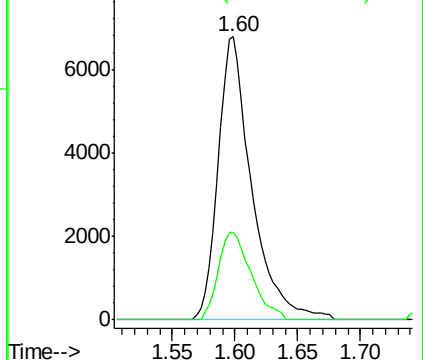
64 100

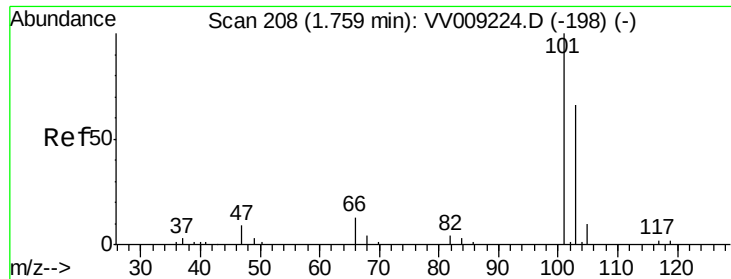
66 30.9 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VV0

Ion 65.90 (65.60 to 66.60): VV0





#7

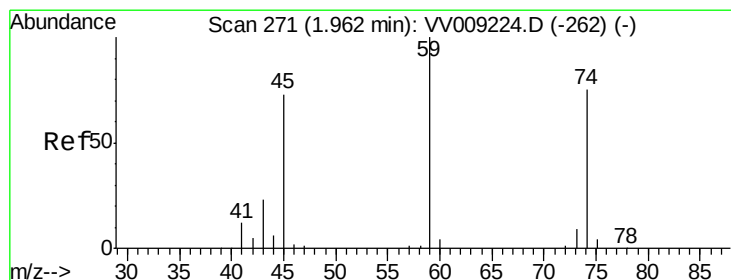
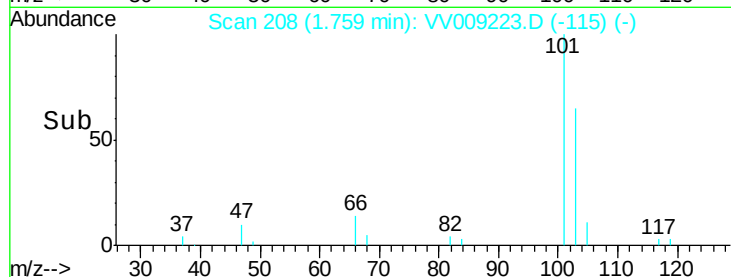
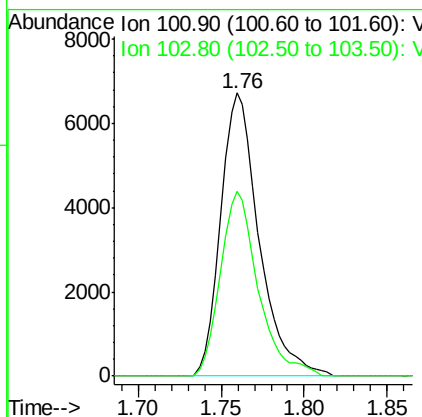
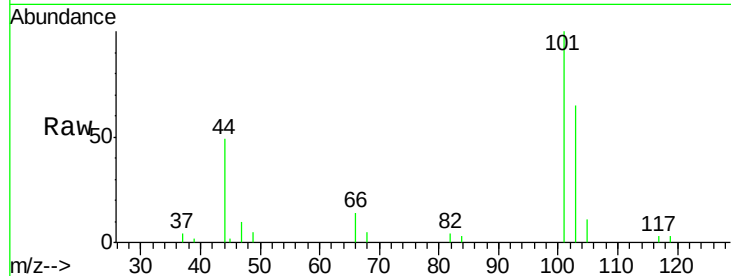
Trichlorofluoromethane
 Concen: 19.303 ug/l
 RT: 1.76 min Scan# 208
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	52.6	79.0

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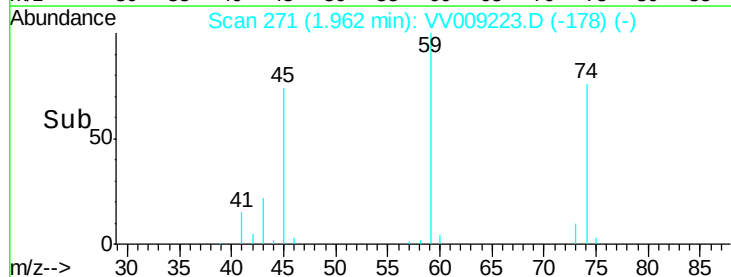
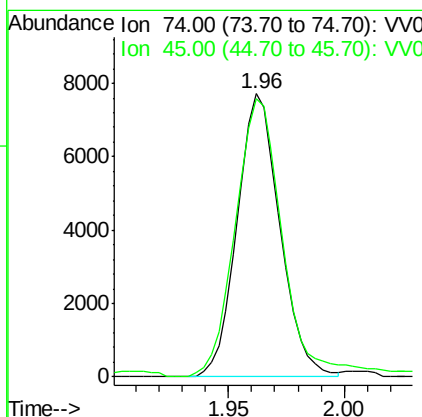
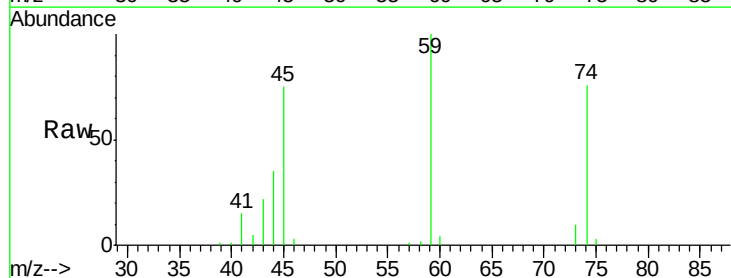
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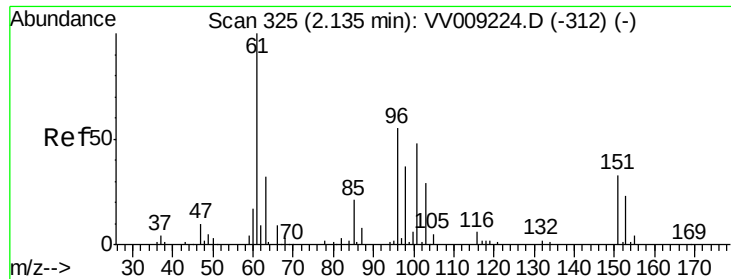


#8

Diethyl Ether
 Concen: 21.150 ug/l
 RT: 1.96 min Scan# 271
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.6	49.4	148.2





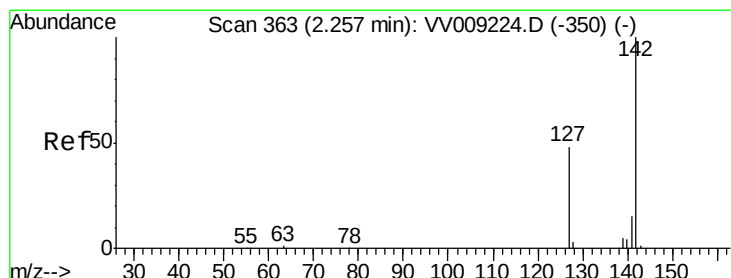
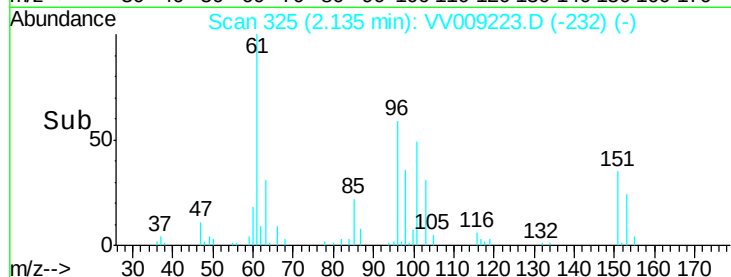
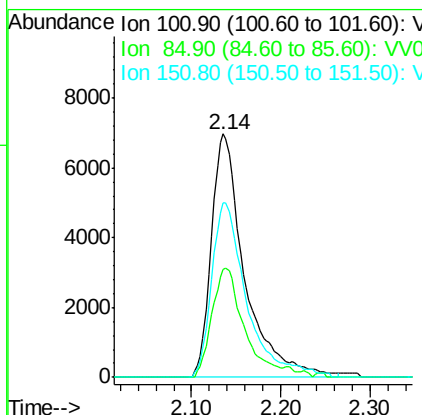
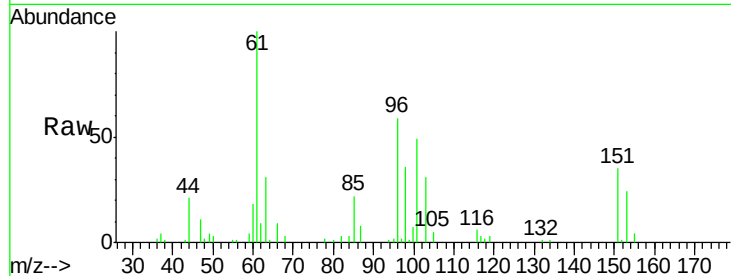
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.766 ug/l
 RT: 2.14 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VV009223.D
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Tot Ion	Ratio	Lower	Upper
101	100		
85	42.8	36.2	54.4
151	74.8	57.9	86.9

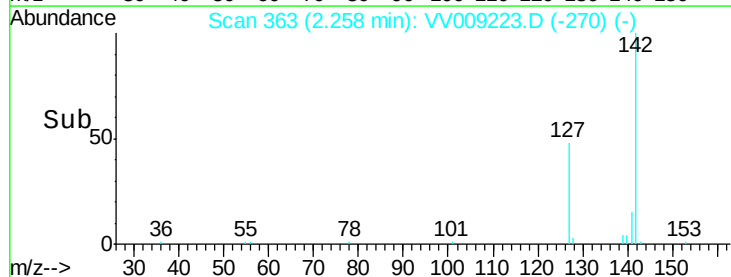
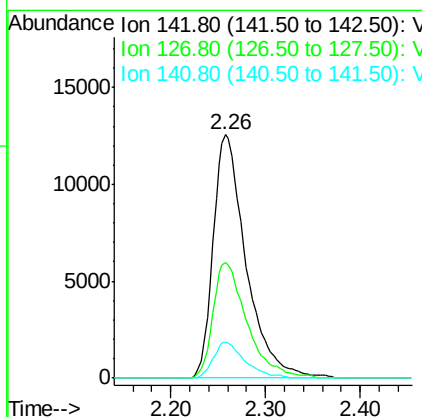
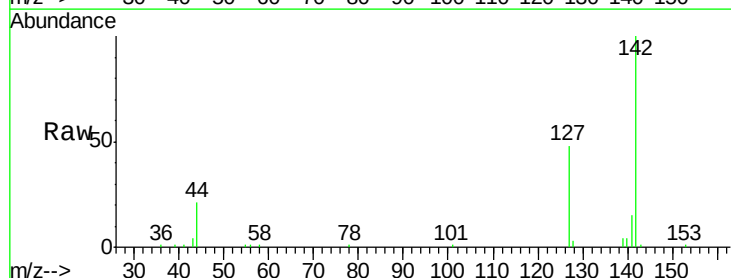
Manual Integrations
 APPROVED

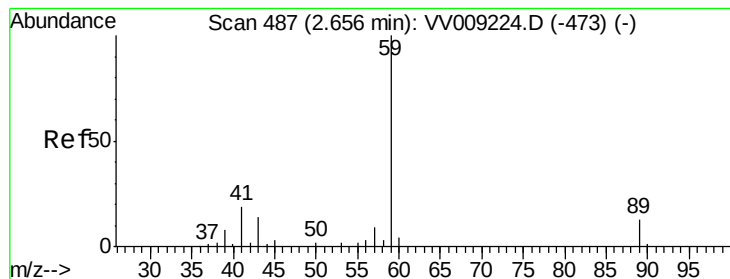
MMDadoda
 1/21/2019 10:45:21 AM



#10
 Methyl Iodide
 Concen: 21.606 ug/l
 RT: 2.26 min Scan# 363
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
142	100		
127	49.0	39.0	58.4
141	14.2	11.4	17.0





#11

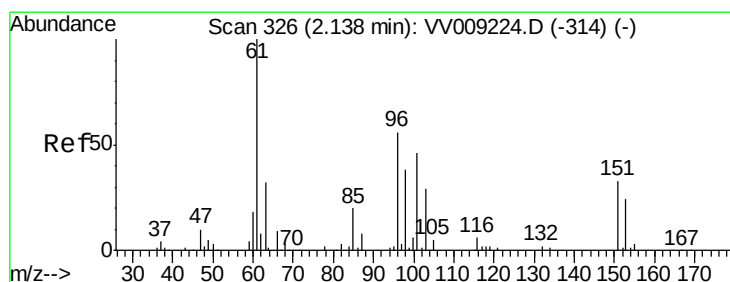
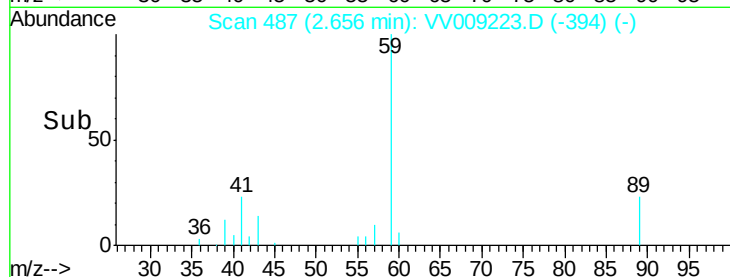
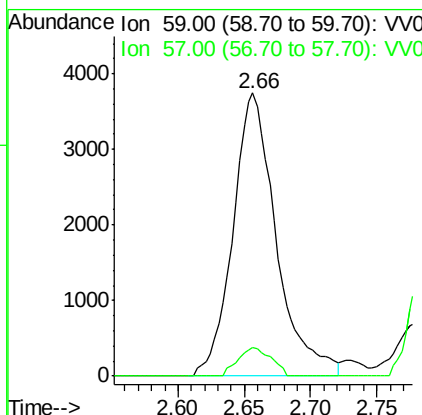
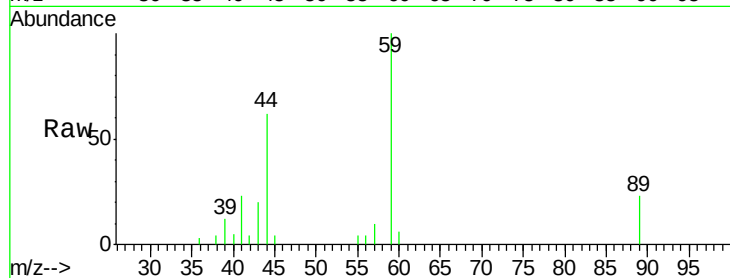
Tert butyl alcohol
 Concen: 122.897 ug/l
 RT: 2.66 min Scan# 487
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	8524		
57	57	7.7		7.5	11.3

Manual Integrations
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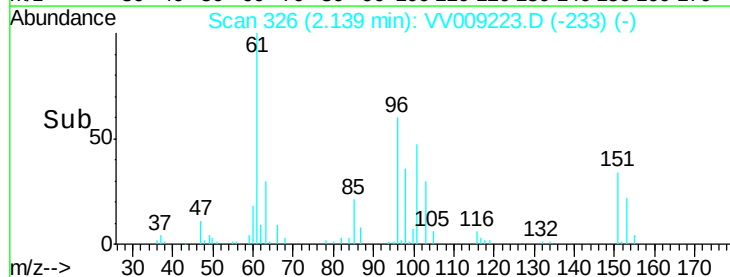
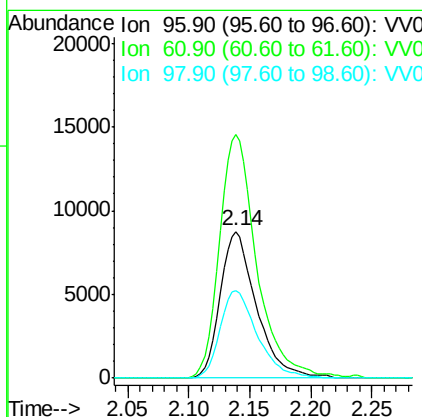
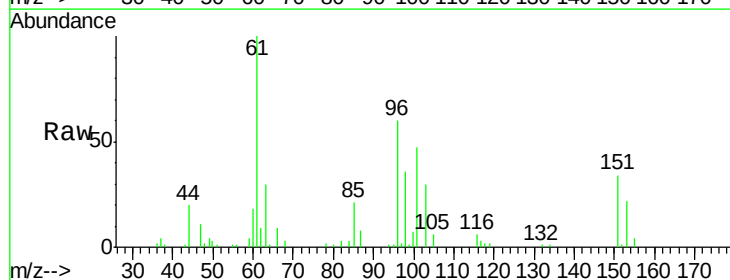
MMDadoda
 1/21/2019 10:45:21 AM

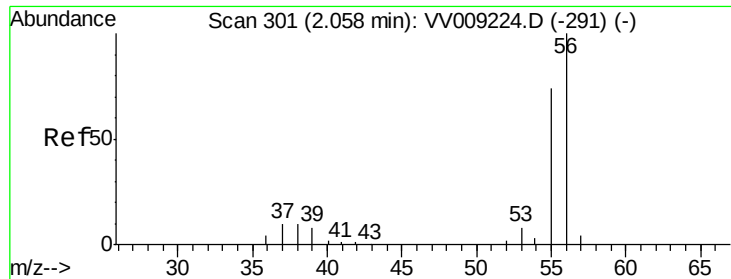


#12

1,1-Dichloroethene
 Concen: 21.748 ug/l
 RT: 2.14 min Scan# 326
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	18218		
61	61	165.7		141.9	212.9
98	98	59.8		53.3	79.9





#13

Acrolein

Concen: 126.978 ug/l

RT: 2.06 min Scan# 301

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 7227

Ion Ratio Lower Upper

56 100

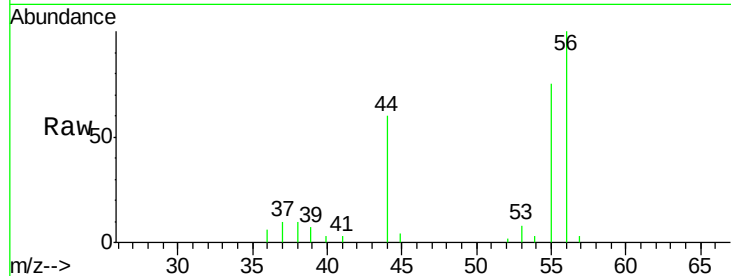
55 69.4 56.0 84.0

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Abundance Ion 56.00 (55.70 to 56.70): VV009223.D (-208) (-)

Ion 55.00 (54.70 to 55.70): VV009223.D (-208) (-)

2.06

4000

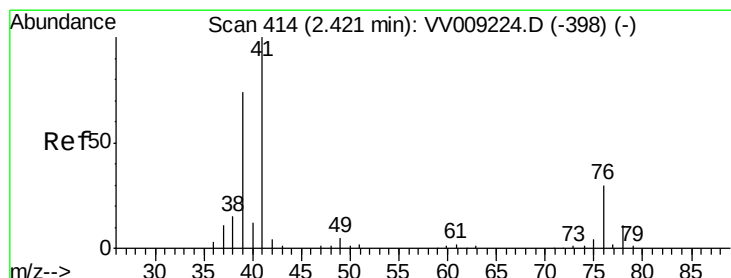
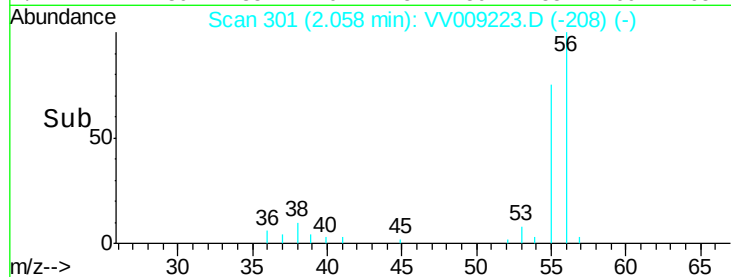
3000

2000

1000

0

Time-->



#14

Allyl chloride

Concen: 21.322 ug/l

RT: 2.42 min Scan# 414

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

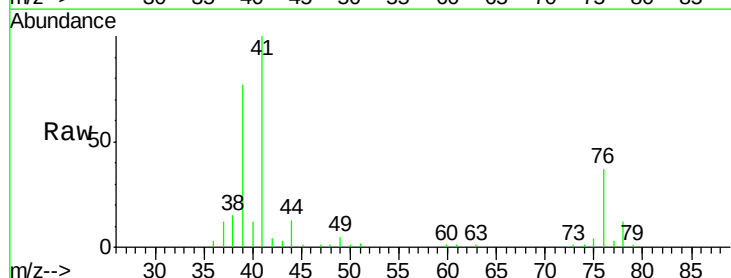
Tgt Ion: 41 Resp: 32218

Ion Ratio Lower Upper

41 100

39 73.9 58.2 87.2

76 34.6 29.4 44.2



Abundance Ion 41.00 (40.70 to 41.70): VV009223.D (-321) (-)

Ion 39.00 (38.70 to 39.70): VV009223.D (-321) (-)

Ion 75.90 (75.60 to 76.60): VV009223.D (-321) (-)

2.42

30000

25000

20000

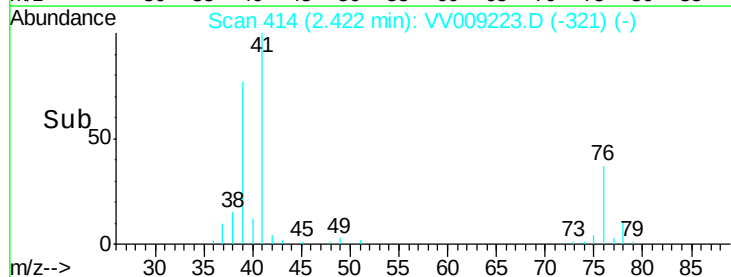
15000

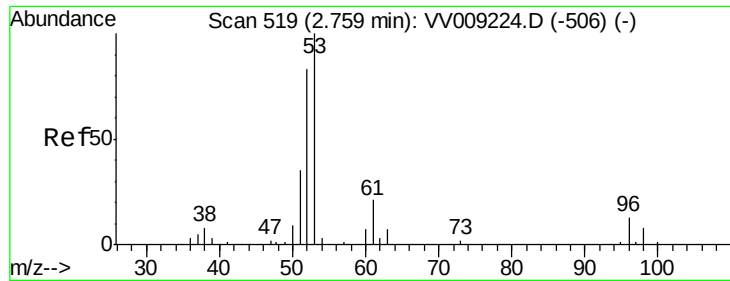
10000

5000

0

Time-->





#15

Acrylonitrile

Concen: 109.533 ug/l

RT: 2.76 min Scan# 519

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

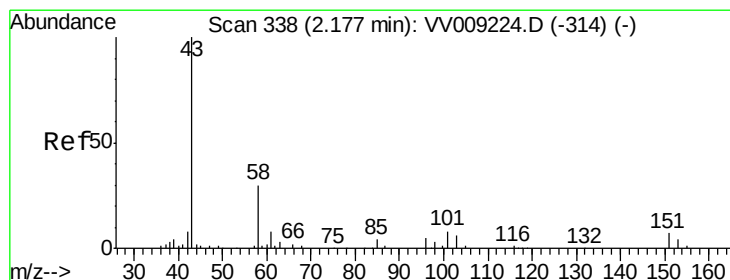
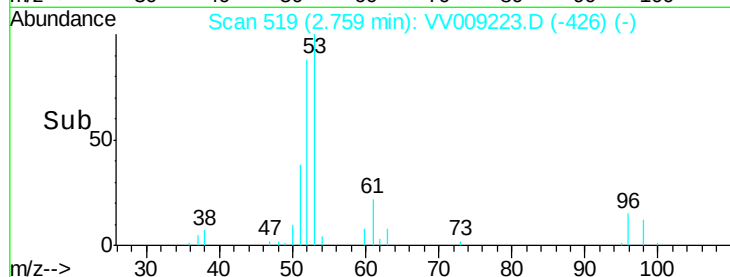
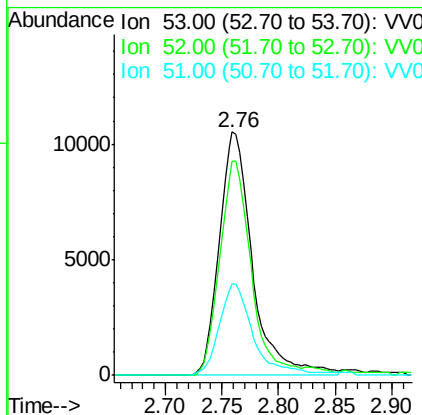
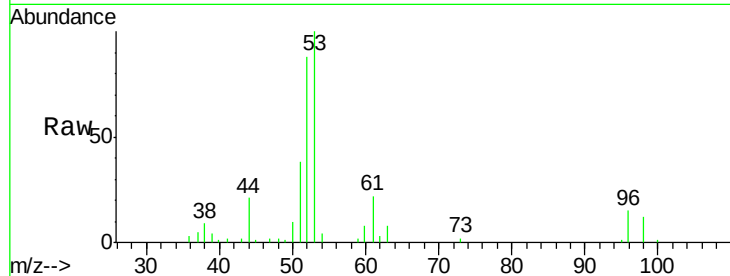
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	21488
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.8	98.6
51	37.9	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 123.409 ug/l

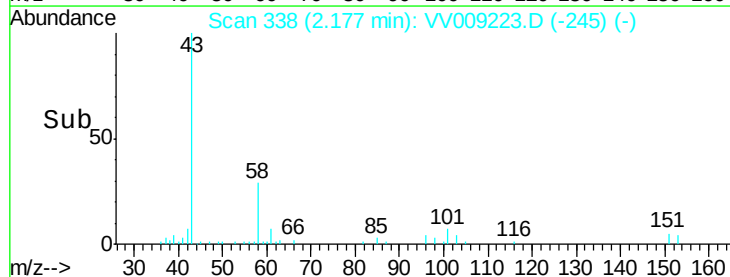
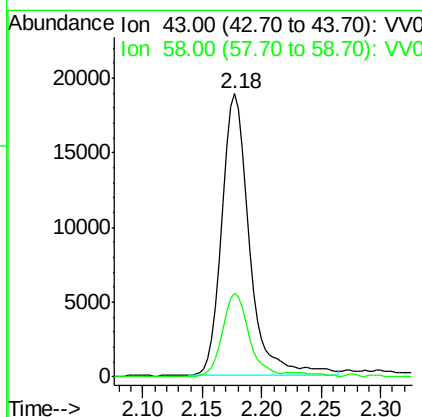
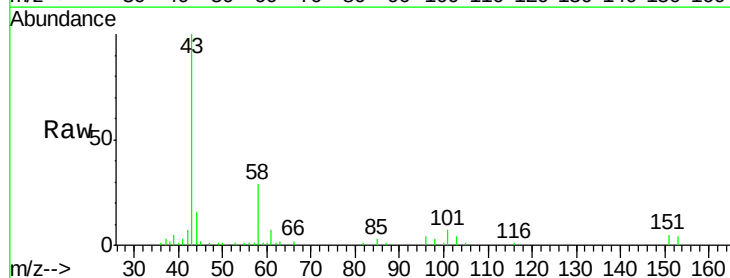
RT: 2.18 min Scan# 338

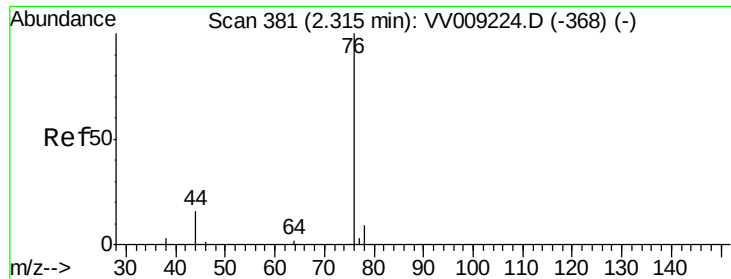
Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion:	43	Resp:	30397
Ion	Ratio	Lower	Upper
43	100		
58	29.6	23.9	35.9





#17

Carbon Disulfide

Concen: 20.541 ug/l

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 53284

Ion Ratio Lower Upper

76 100

78 9.7

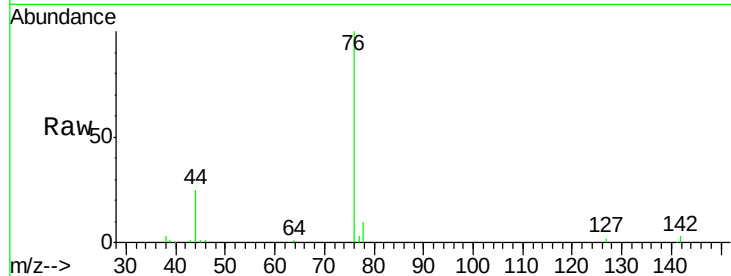
7.3 10.9

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VV009223.D (-288) (-)

Ion 77.90 (77.60 to 78.60): VV009223.D (-288) (-)

25000

20000

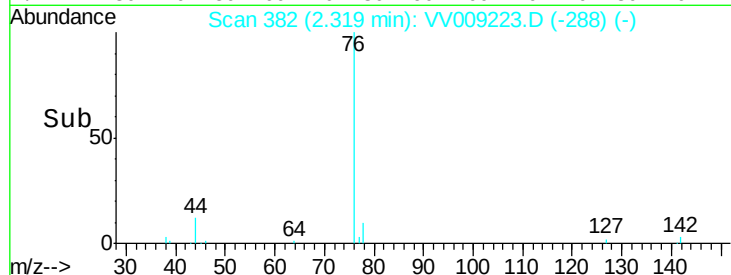
15000

10000

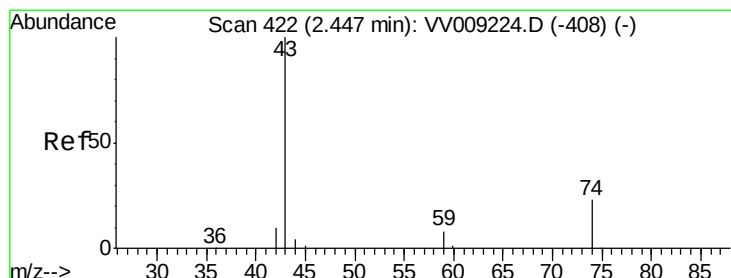
5000

0

Time-->



Time-->



#18

Methyl Acetate

Concen: 24.723 ug/l

RT: 2.45 min Scan# 422

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

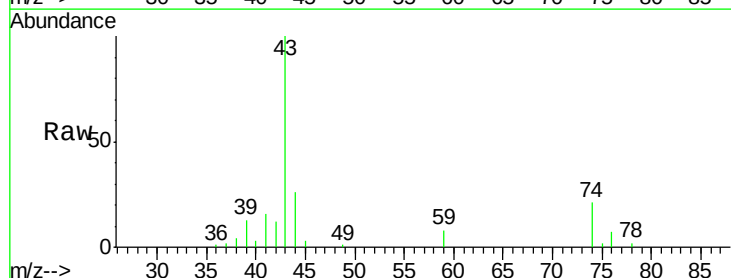
Tgt Ion: 43 Resp: 15994

Ion Ratio Lower Upper

43 100

74 22.2

19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VV009223.D (-329) (-)

Ion 74.00 (73.70 to 74.70): VV009223.D (-329) (-)

10000

8000

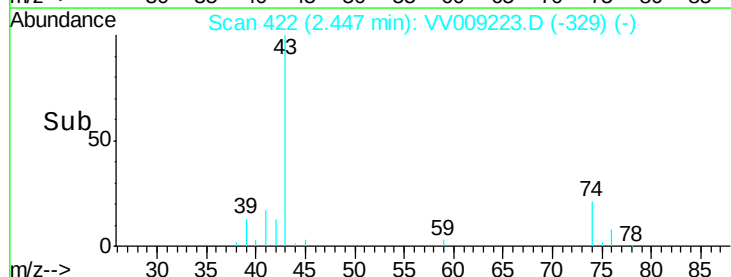
6000

4000

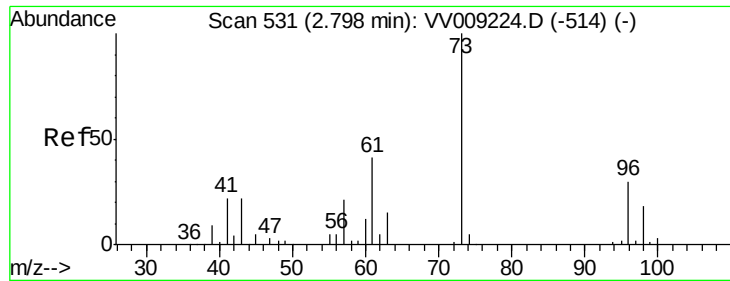
2000

0

Time-->



Time-->



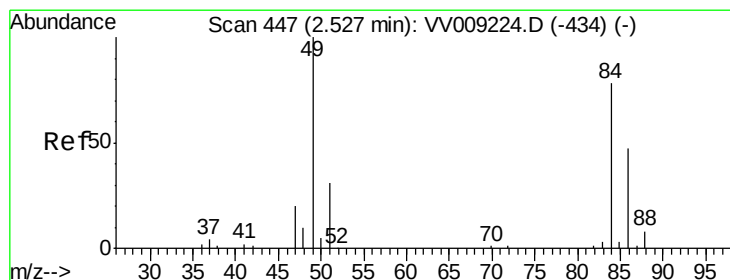
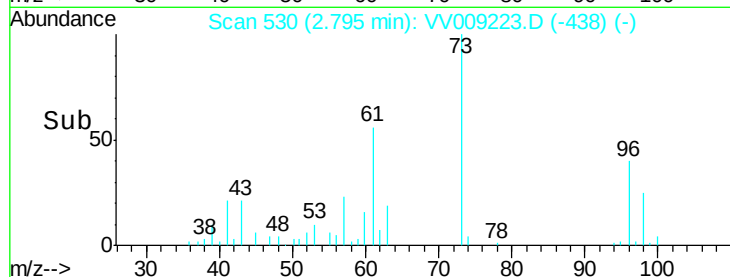
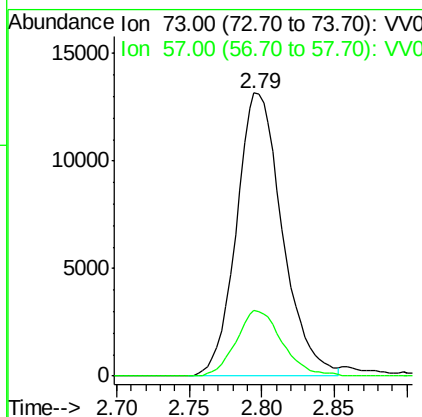
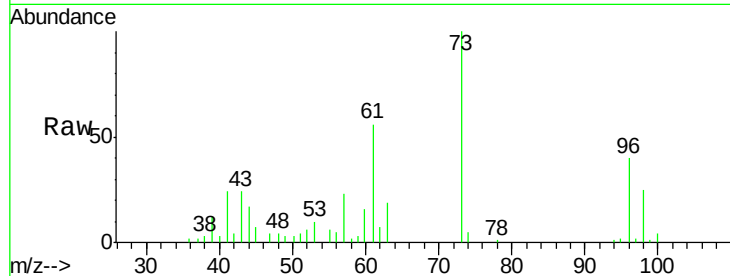
#19
Methyl tert-butyl Ether
Concen: 21.146 ug/l
RT: 2.79 min Scan# 530
Delta R.T. -0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 28955
Ion Ratio Lower Upper
73 100
57 23.5 17.1 25.7

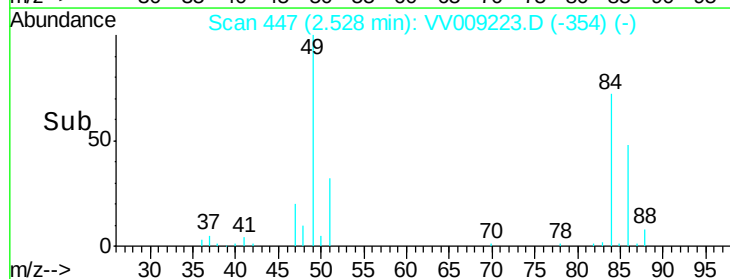
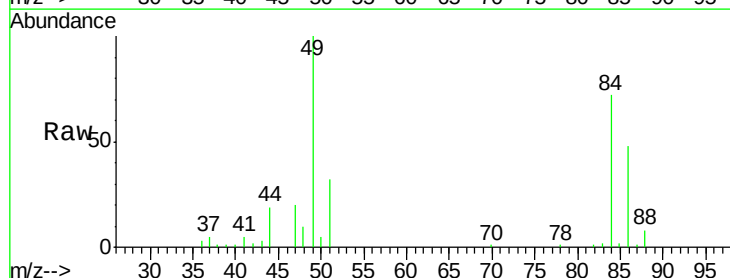
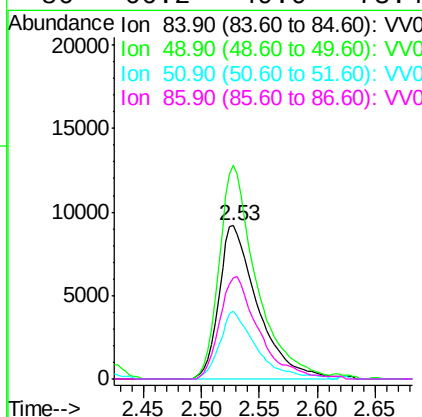
Manual Integrations
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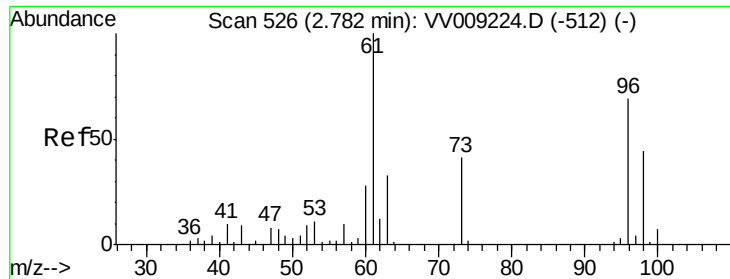
MMDadoda
1/21/2019 10:45:21 AM



#20
Methylene Chloride
Concen: 22.424 ug/l
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion: 84 Resp: 21426
Ion Ratio Lower Upper
84 100
49 139.3 103.1 154.7
51 44.5 31.7 47.5
86 66.2 49.0 73.4





#21

trans-1,2-Dichloroethene

Concen: 21.174 ug/l

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 19571

Ion Ratio Lower Upper

96 100

61 145.9 116.2 174.2

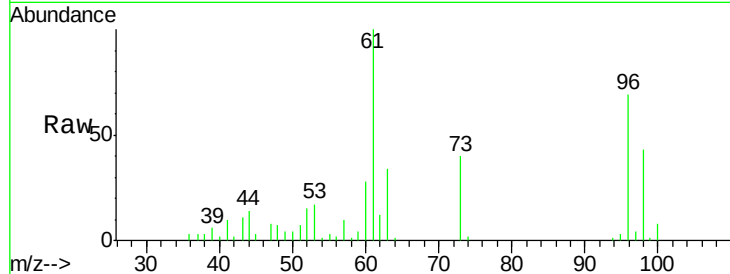
98 63.2 50.8 76.2

Manual Integrations

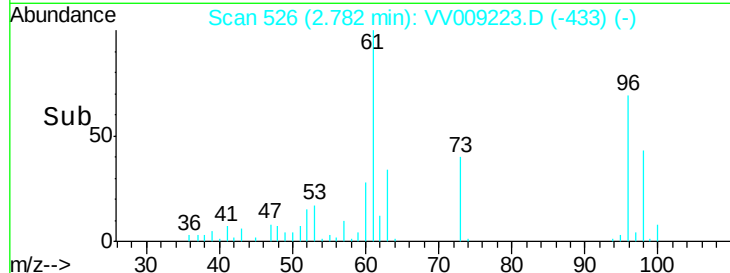
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Abundance Ion 95.90 (95.60 to 96.60): VV009223.D (-433) (-)



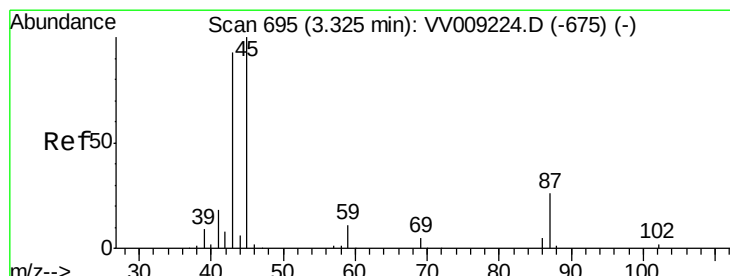
Ion 60.90 (60.60 to 61.60): VV009223.D (-433) (-)

Ion 97.90 (97.60 to 98.60): VV009223.D (-433) (-)

Time-->

2.70 2.75 2.80 2.85 2.90

2.78



#22

Diisopropyl ether

Concen: 21.555 ug/l

RT: 3.33 min Scan# 695

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion: 45 Resp: 74160

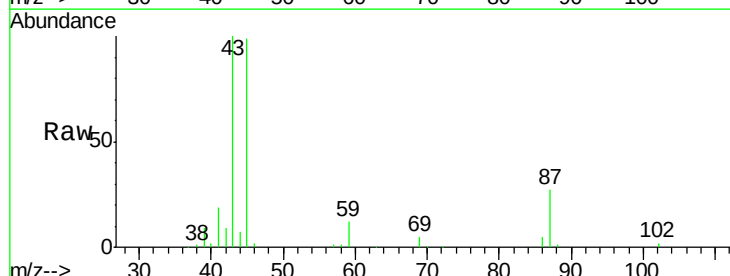
Ion Ratio Lower Upper

45 100

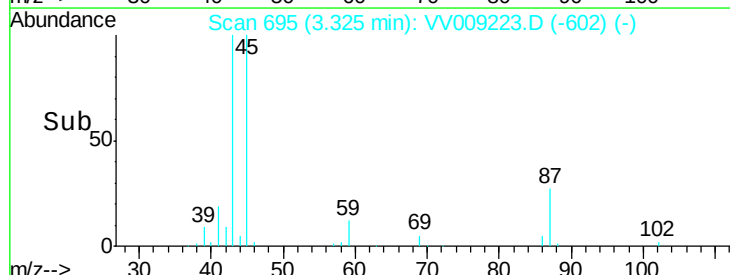
43 97.9 75.4 113.2

87 27.4 20.6 31.0

59 12.0 9.2 13.8



Abundance Ion 45.00 (44.70 to 45.70): VV009223.D (-602) (-)



Ion 43.00 (42.70 to 43.70): VV009223.D (-602) (-)

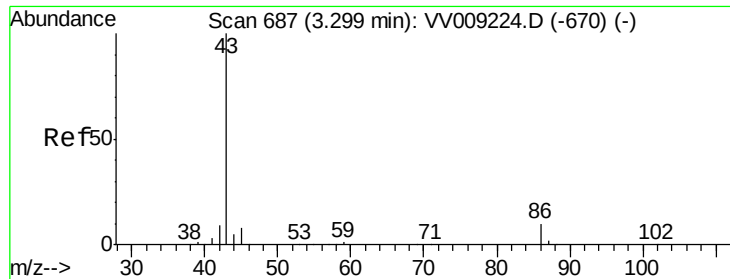
Ion 87.00 (86.70 to 87.70): VV009223.D (-602) (-)

Ion 59.00 (58.70 to 59.70): VV009223.D (-602) (-)

Time-->

3.20 3.30 3.40 3.50

3.33



#23

Vinyl Acetate

Concen: 108.596 ug/l

RT: 3.30 min Scan# 687

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 203248

Ion Ratio Lower Upper

43 100

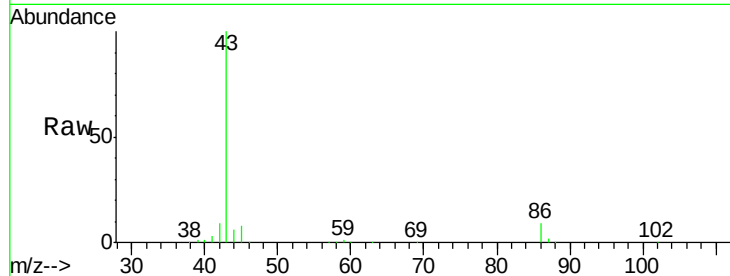
86 9.4 7.8 11.6

Manual Integrations

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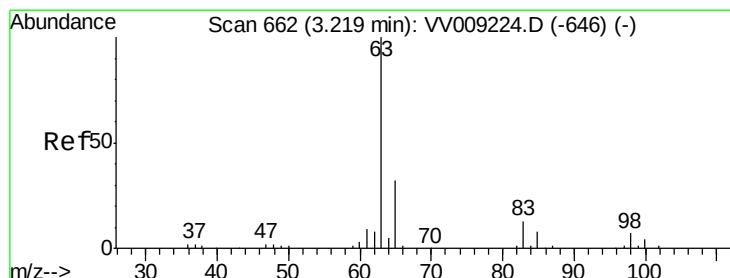
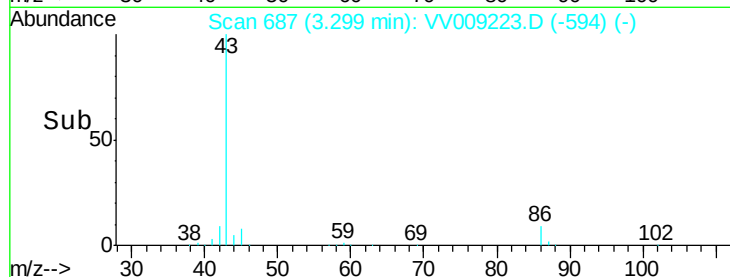
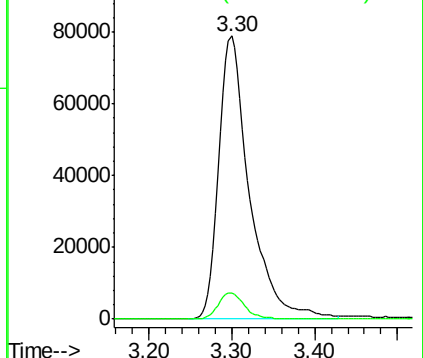
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 86.00 (85.70 to 86.70): VV0



#24

1,1-Dichloroethane

Concen: 21.535 ug/l

RT: 3.22 min Scan# 662

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

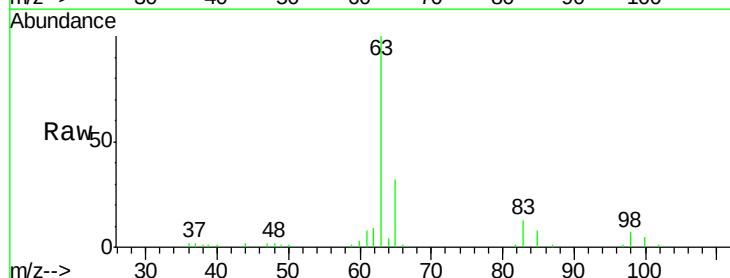
Tgt Ion: 63 Resp: 43603

Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.2

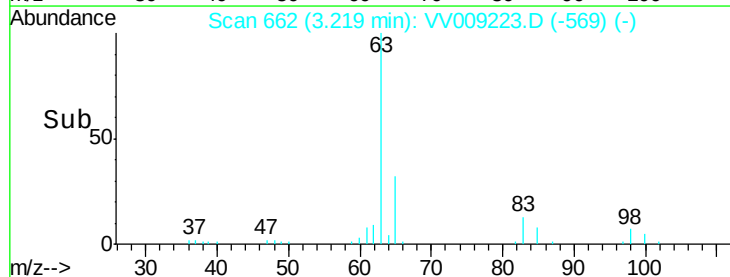
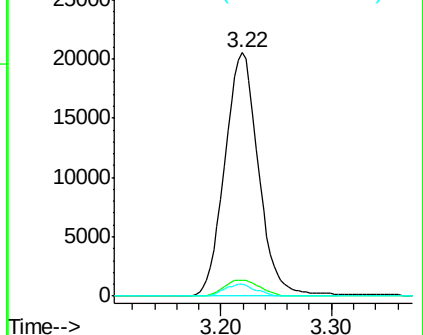
100 4.8 2.1 6.2

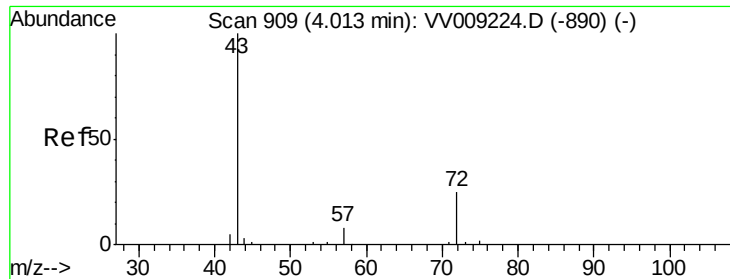


Abundance Ion 62.90 (62.60 to 63.60): VV0

Ion 97.90 (97.60 to 98.60): VV0

Ion 99.90 (99.60 to 100.60): VV0





#25

2-Butanone

Concen: 115.890 ug/l

RT: 4.02 min Scan# 910

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tot Ion: 43 Resp: 35813

Ion Ratio Lower Upper

43 100

72 24.1 19.7 29.5

Instrument :

MSVOA_V

ClientSampleId :

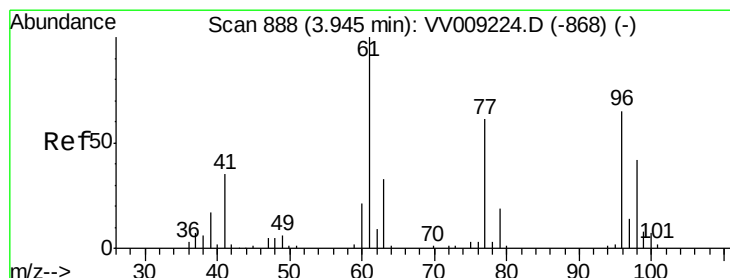
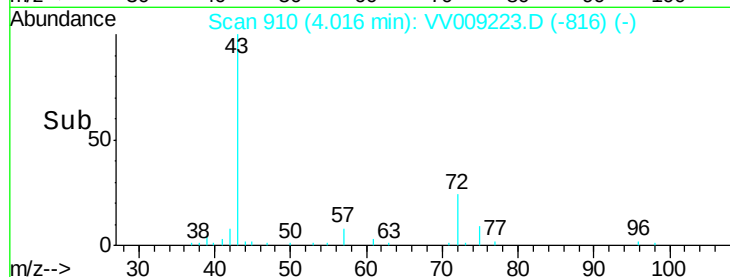
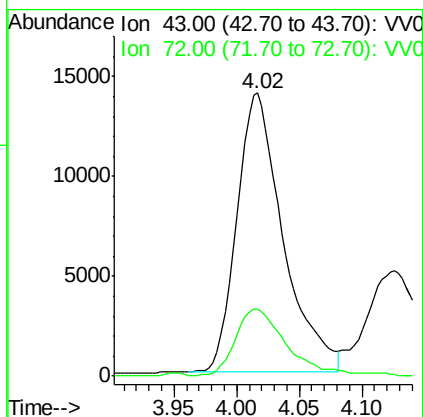
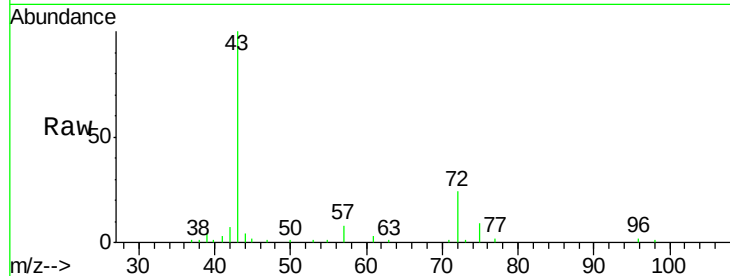
VSTDIC020

Manual Integrations

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MMDadoda

1/21/2019 10:45:21 AM



#26

2,2-Dichloropropane

Concen: 20.542 ug/l

RT: 3.95 min Scan# 890

Delta R.T. 0.01 min

Lab File: VV009223.D

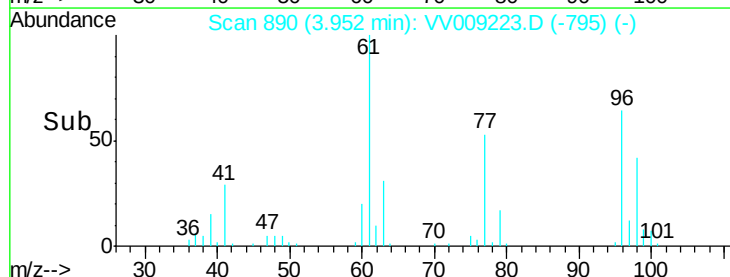
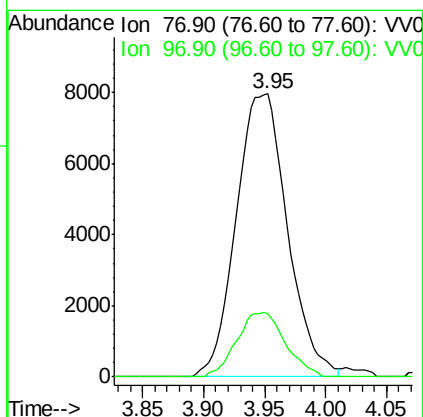
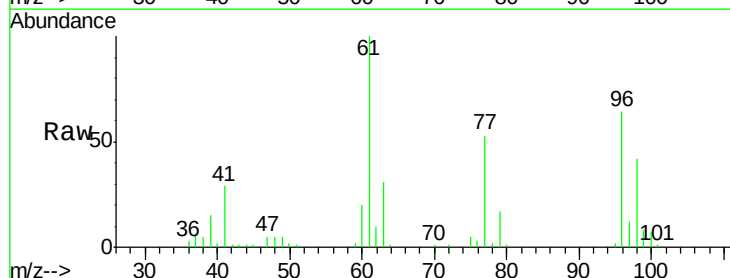
Acq: 18 Jan 2019 16:27

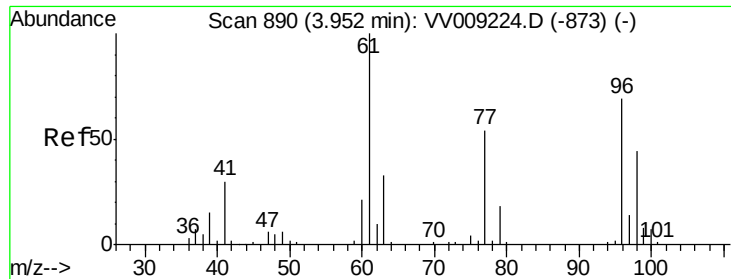
Tgt Ion: 77 Resp: 23208

Ion Ratio Lower Upper

77 100

97 21.6 11.2 33.6





#27

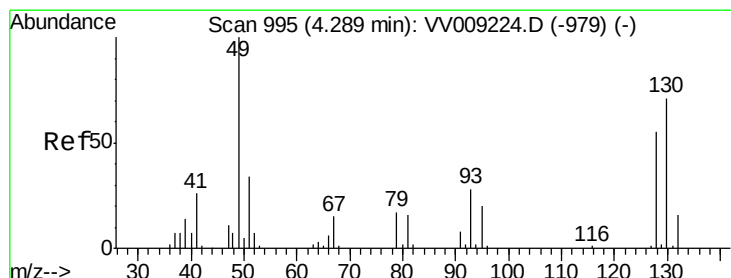
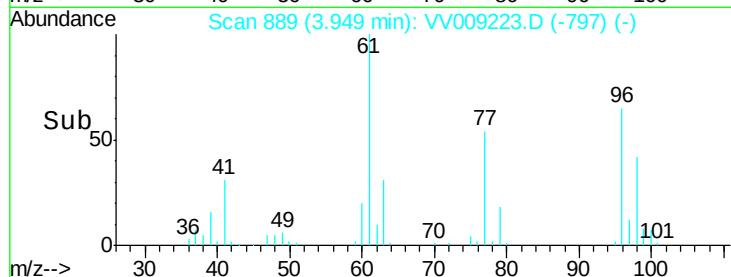
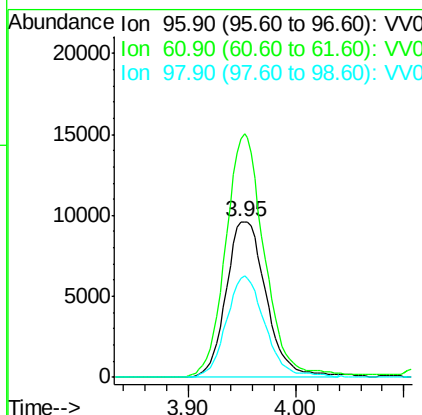
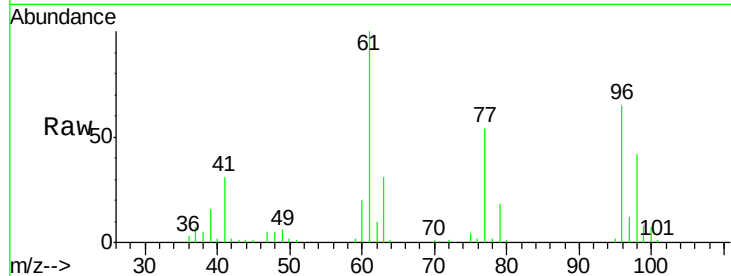
cis-1,2-Dichloroethene
Concen: 20.940 ug/l
RT: 3.95 min Scan# 889
Delta R.T. -0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100	24786		
61	152.3		0.0	300.4
98	62.7		0.0	129.2

Manual Integrations
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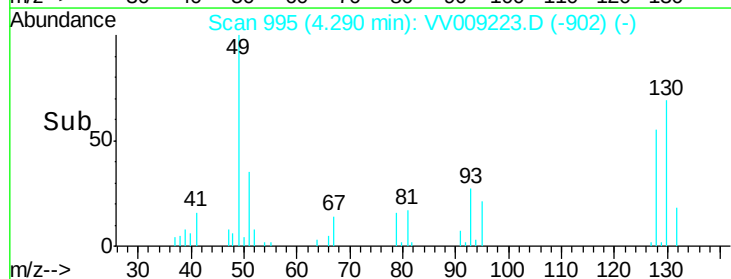
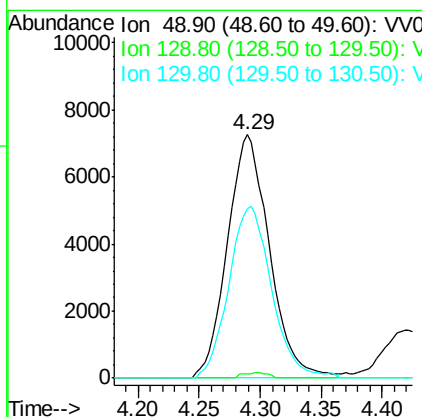
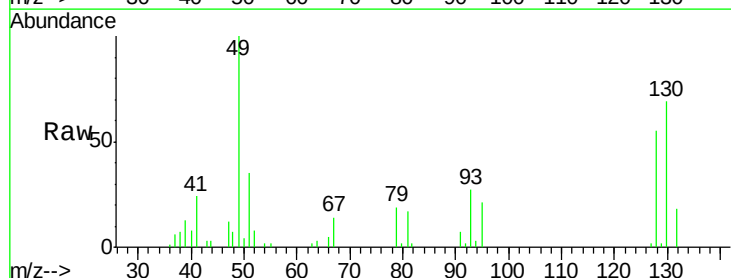
MMDadoda
1/21/2019 10:45:21 AM

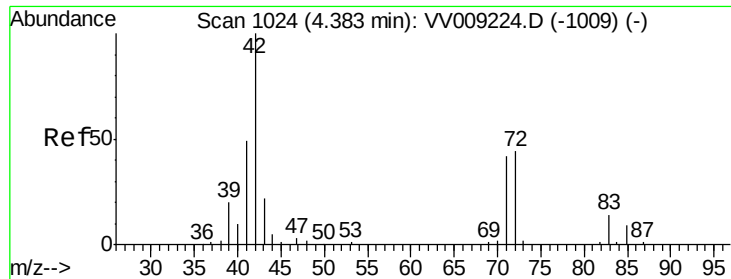


#28

Bromochloromethane
Concen: 20.436 ug/l
RT: 4.29 min Scan# 995
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	17380		
129	1.3		0.0	4.0
130	71.7		57.8	86.6





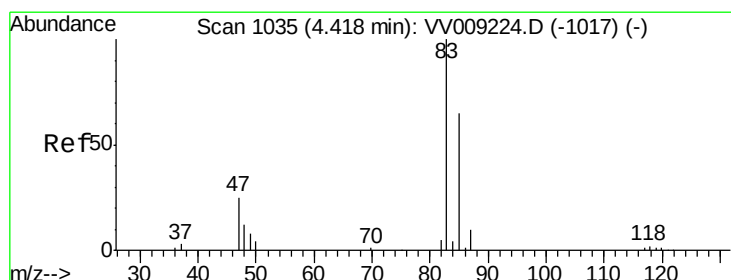
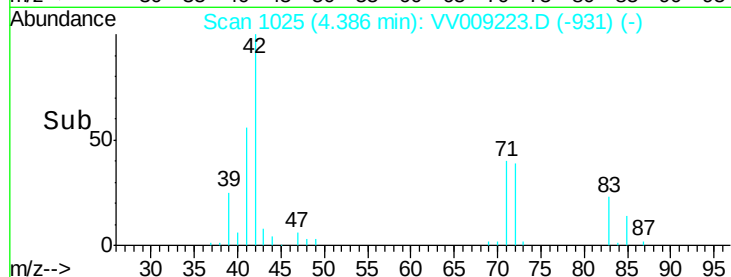
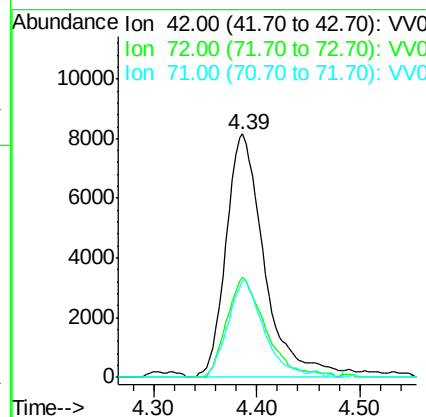
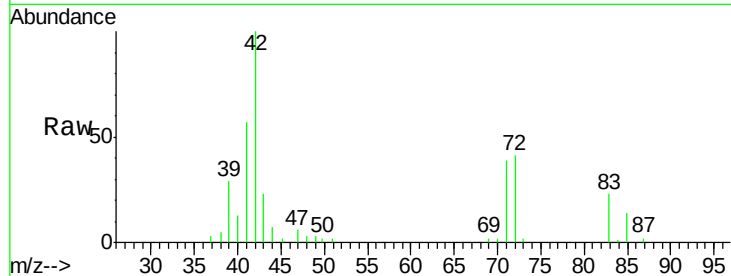
#29
Tetrahydrofuran
Concen: 113.889 ug/l
RT: 4.39 min Scan# 1025
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion: 42 Resp: 21074
Ion Ratio Lower Upper
42 100
72 41.4 35.9 53.9
71 37.4 33.6 50.4

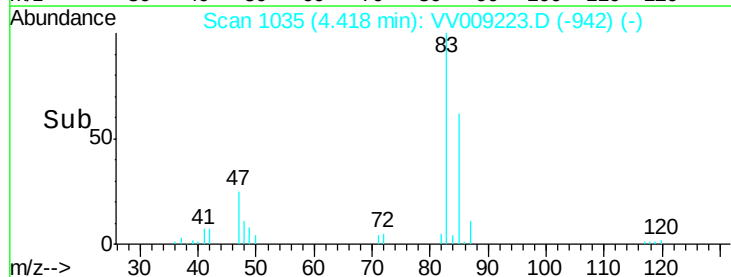
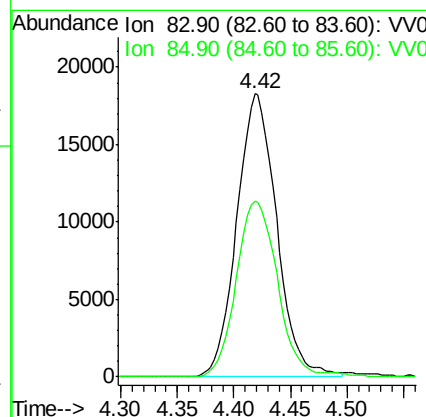
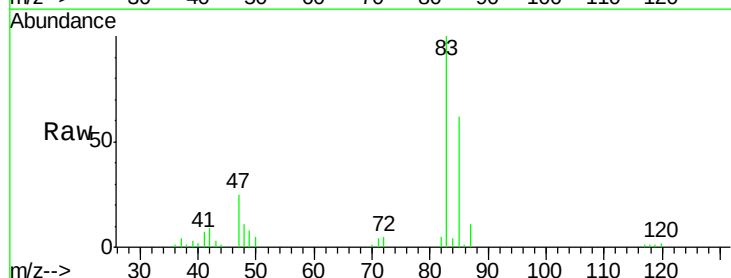
Manual Integrations
APPROVED

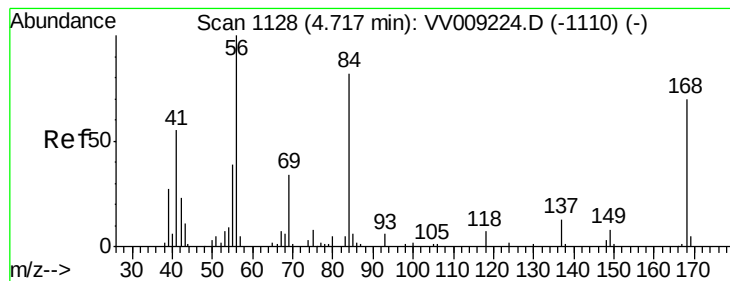
MMDadoda
1/21/2019 10:45:21 AM



#30
Chloroform
Concen: 21.047 ug/l
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion: 83 Resp: 44908
Ion Ratio Lower Upper
83 100
85 62.2 51.8 77.6





#31

Cyclohexane

Concen: 20.966 ug/l

RT: 4.72 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

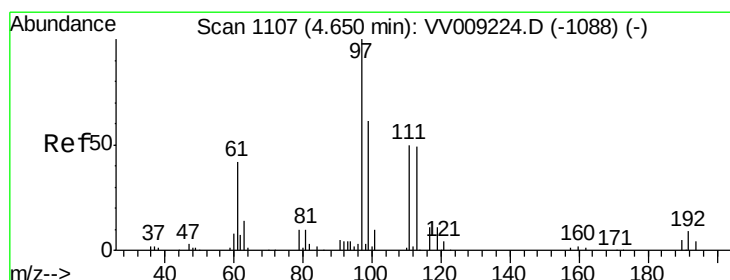
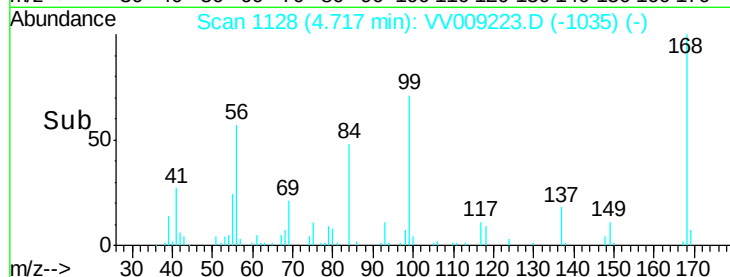
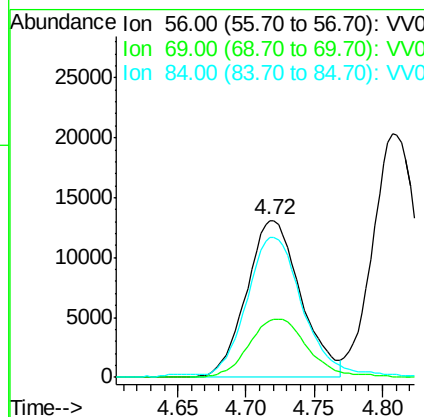
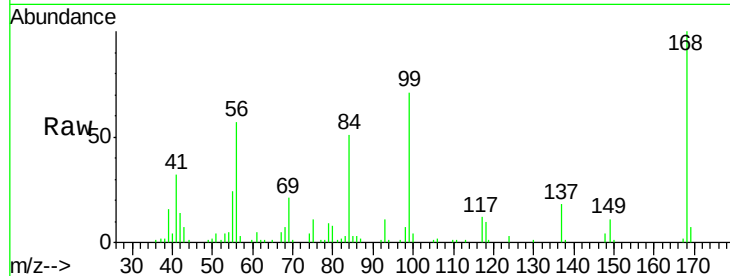
ClientSampled :

VSTDIC020

Tot Ion:	56	Resp:	36232
Ion Ratio	Lower	Upper	
56	100		
69	36.3	27.0	40.4
84	87.3	65.4	98.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.429 ug/l

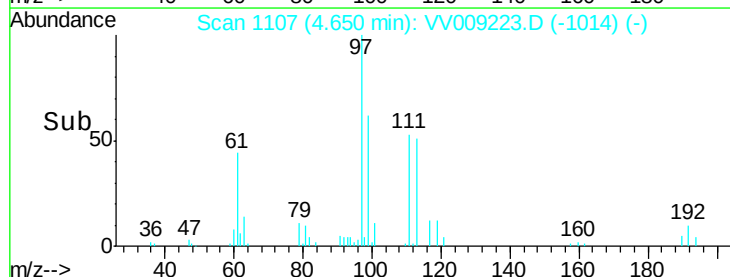
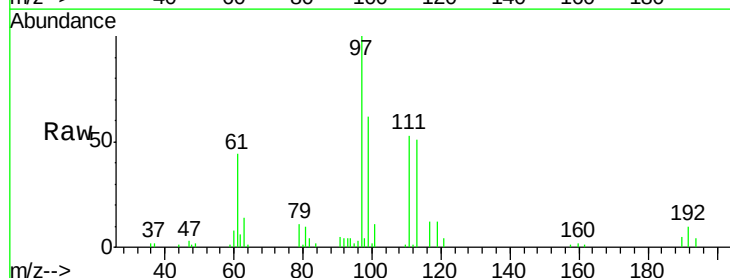
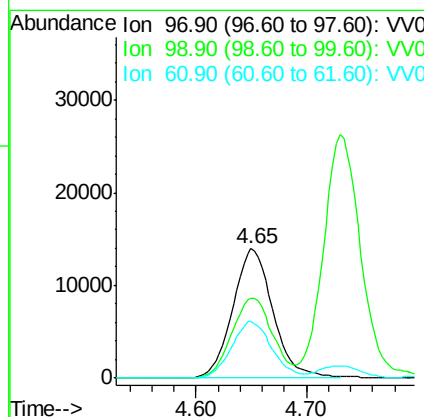
RT: 4.65 min Scan# 1107

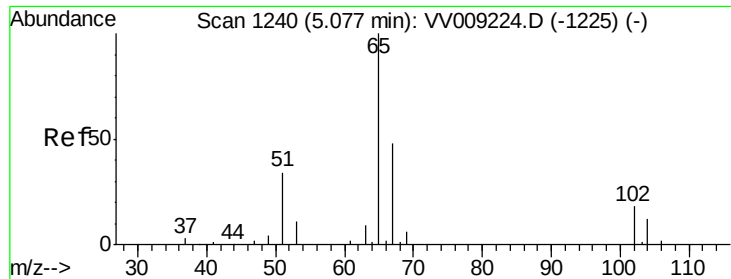
Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion:	97	Resp:	35342
Ion Ratio	Lower	Upper	
97	100		
99	62.4	48.9	73.3
61	43.8	34.7	52.1





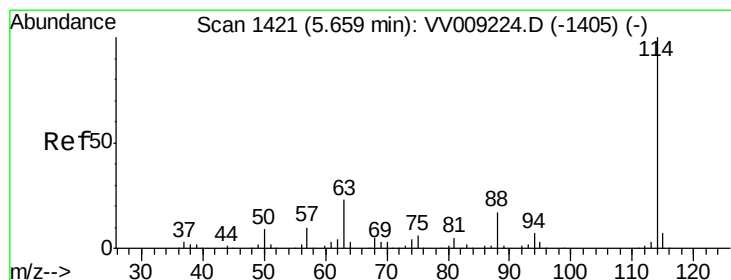
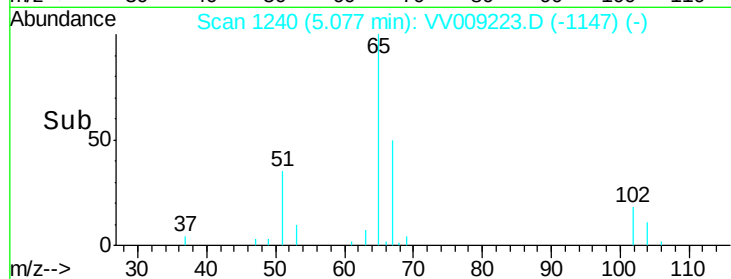
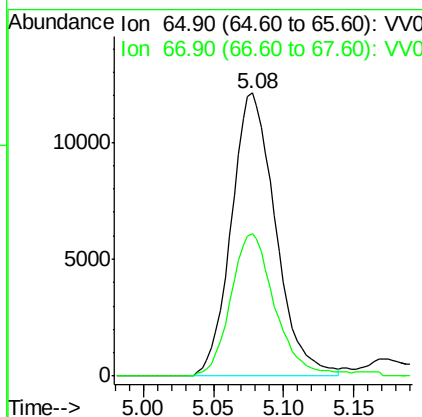
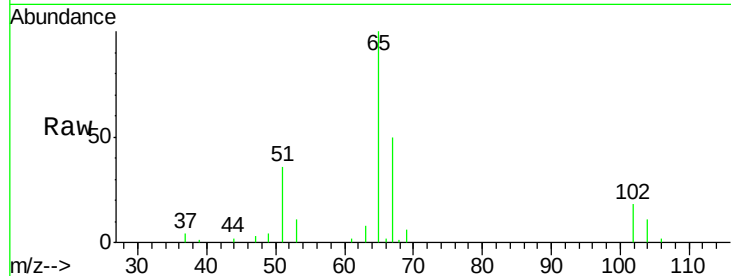
#33
 1,2-Dichloroethane-d4
 Concen: 22.206 ug/l
 RT: 5.08 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	26567		
67	50.3		0.0	99.0

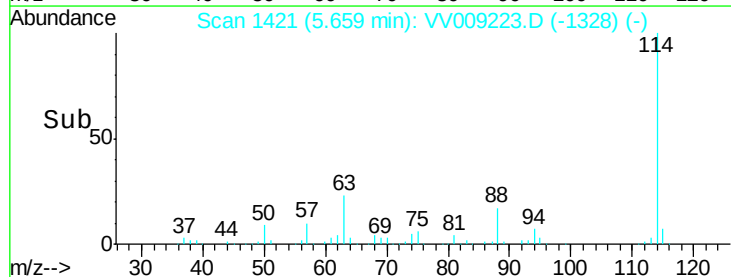
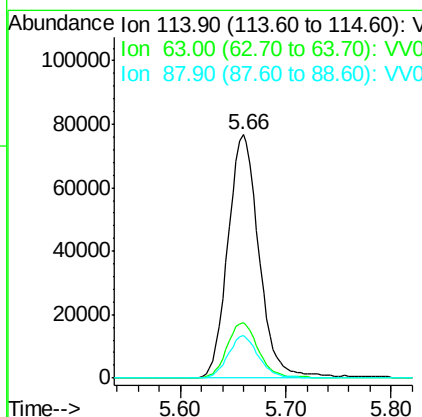
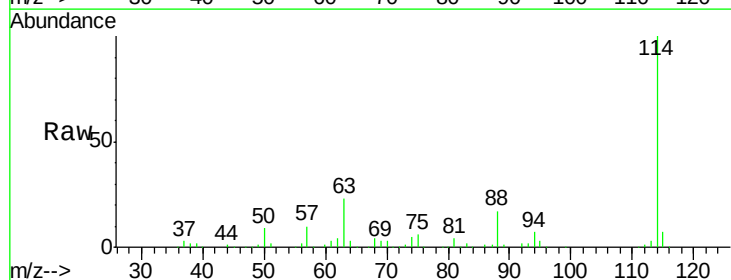
Manual Integrations
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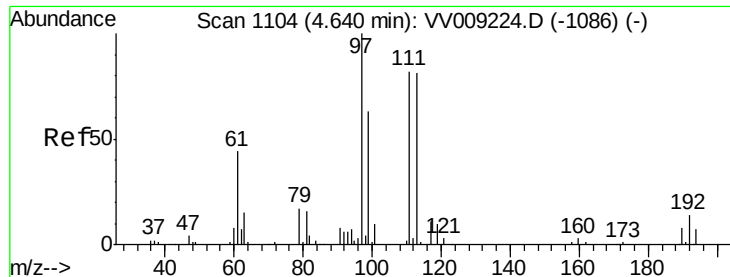
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.66 min Scan# 1421
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	156426		
63	23.0		0.0	46.2
88	17.4		0.0	33.8





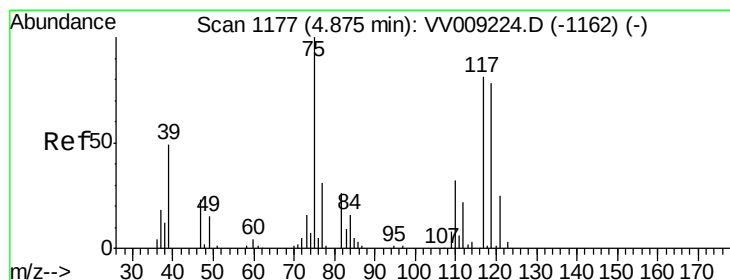
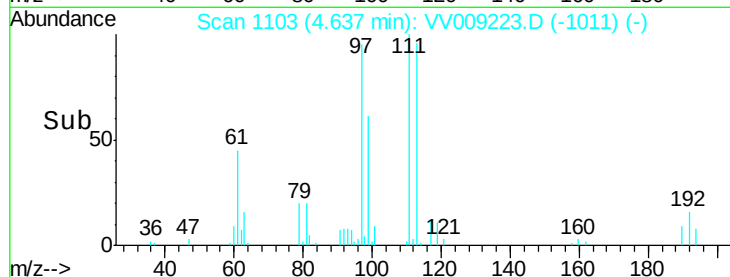
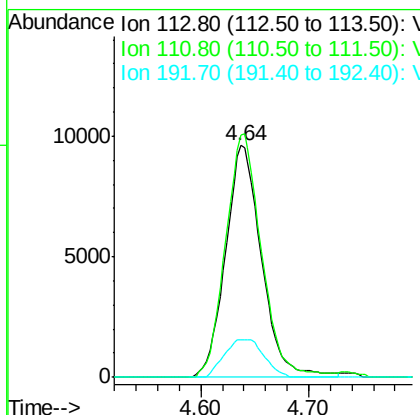
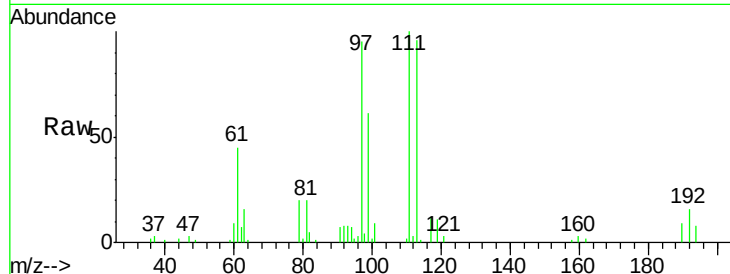
#35
 Dibromofluoromethane
 Concen: 21.725 ug/l
 RT: 4.64 min Scan# 1103
 Delta R.T. -0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.2	123.4
192	17.8	14.1	21.1

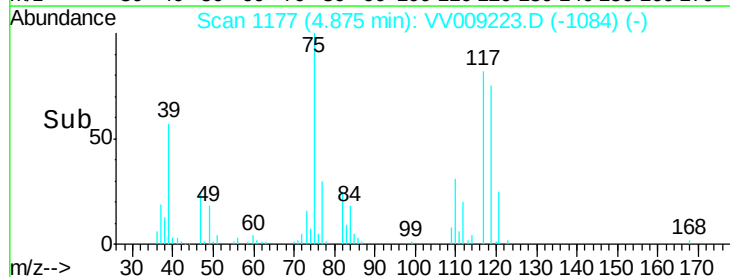
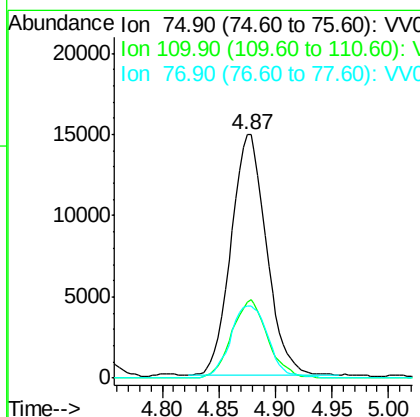
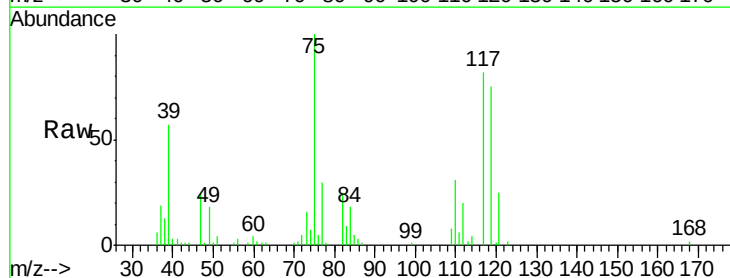
Manual Integrations
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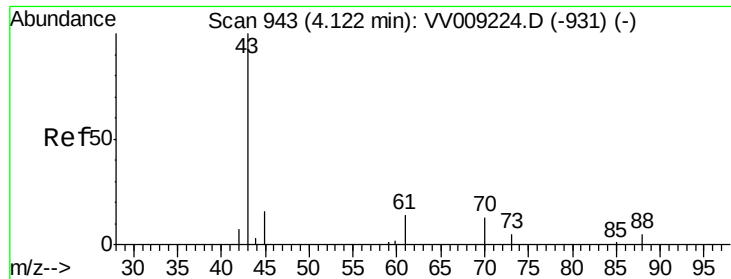
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#36
 1,1-Dichloropropene
 Concen: 21.207 ug/l
 RT: 4.87 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.9	17.3	51.7
77	32.1	24.4	36.6





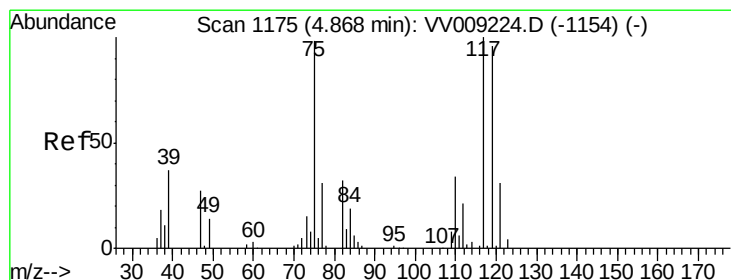
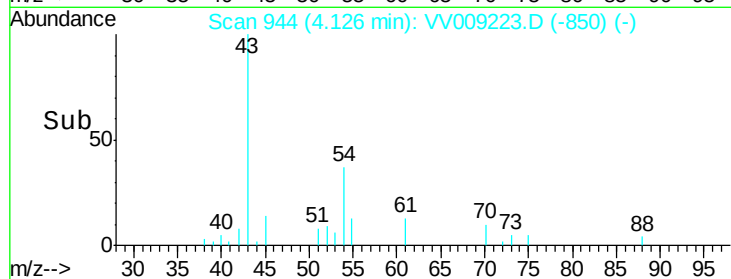
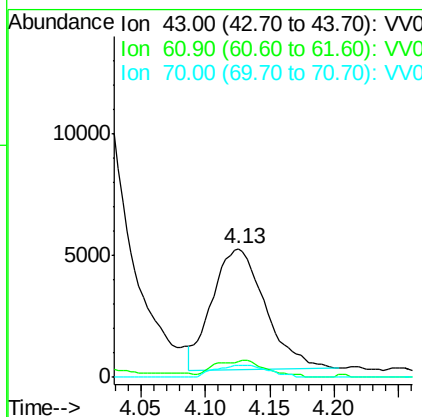
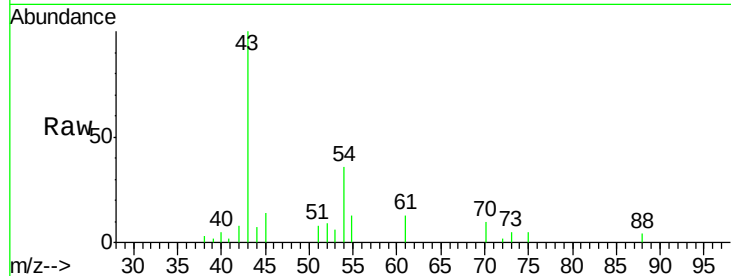
#37
Ethyl Acetate
Concen: 22.151 ug/l
RT: 4.13 min Scan# 944
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.6
70	10.0	8.2	12.4

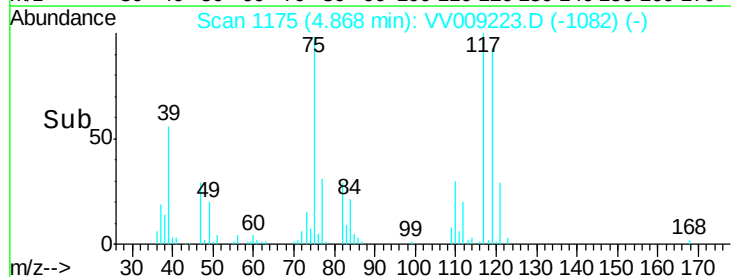
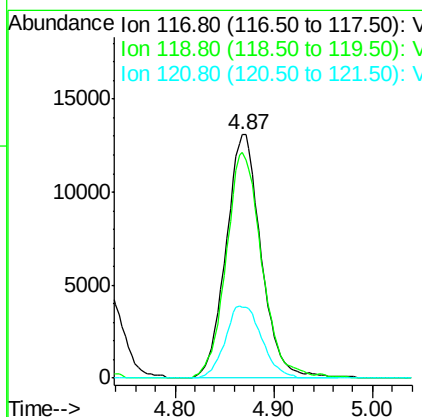
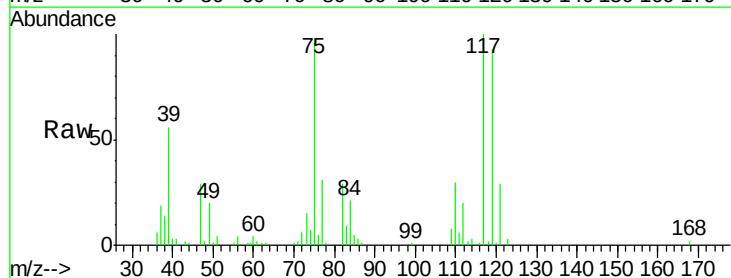
Manual Integrations
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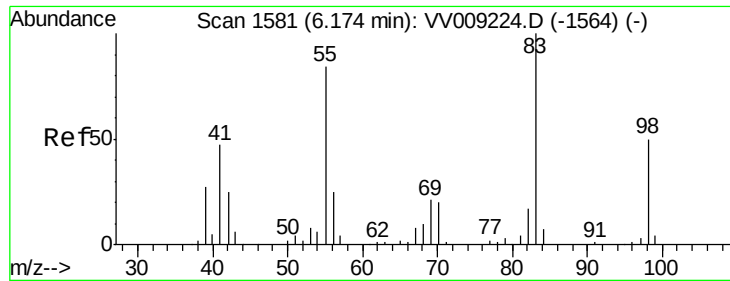
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#38
Carbon Tetrachloride
Concen: 20.854 ug/l
RT: 4.87 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.6	77.0	115.6
121	29.2	24.7	37.1





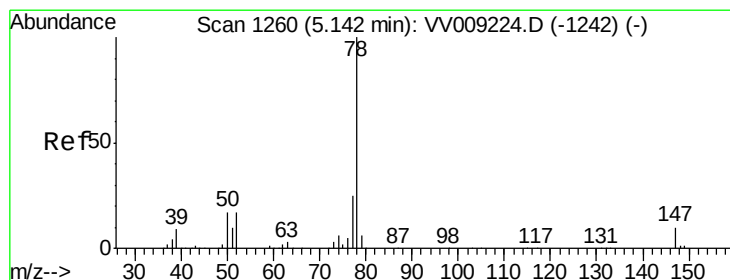
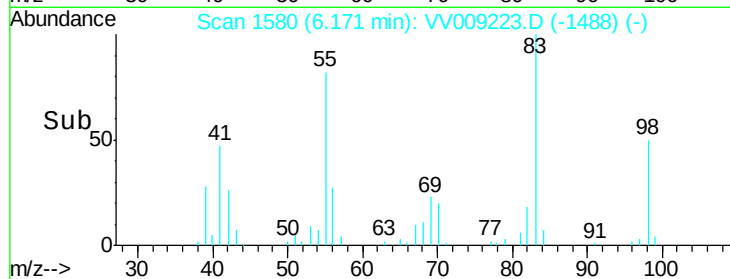
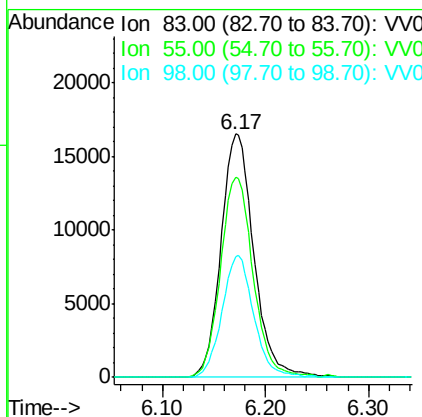
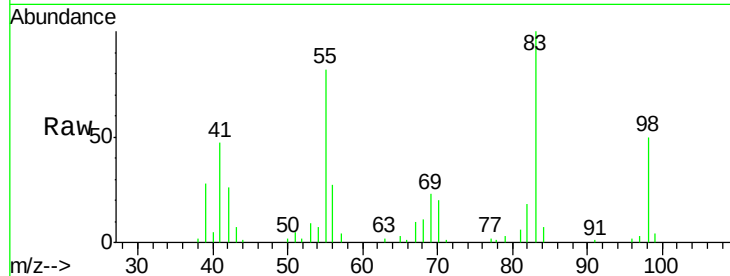
#39
Methylvlcyclohexane
Concen: 19.962 ug/l
RT: 6.17 min Scan# 1580
Delta R.T. -0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.4	67.0	100.6
98	49.5	40.2	60.2

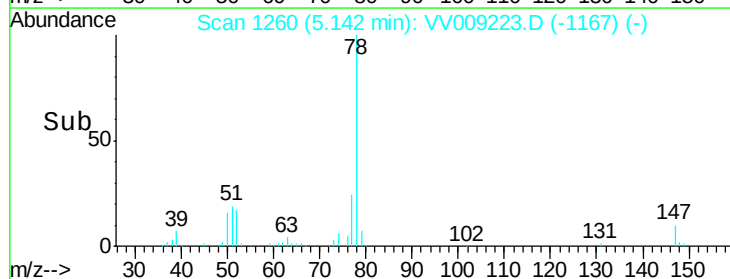
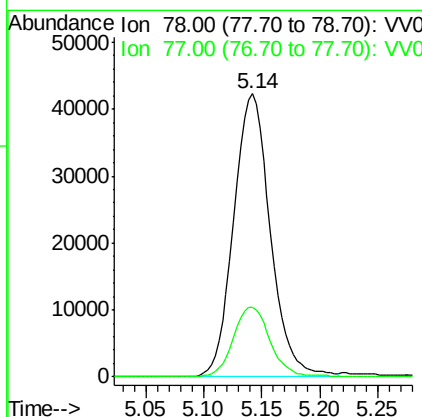
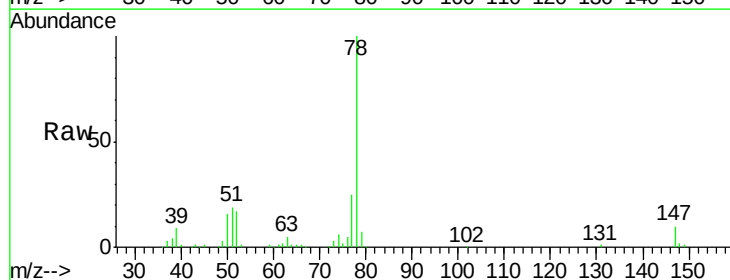
Manual Integrations
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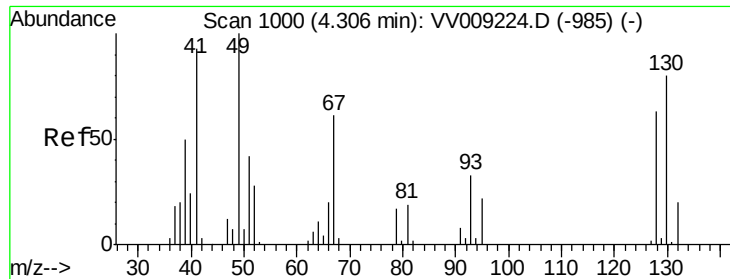
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#40
Benzene
Concen: 20.973 ug/l
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.8	29.6





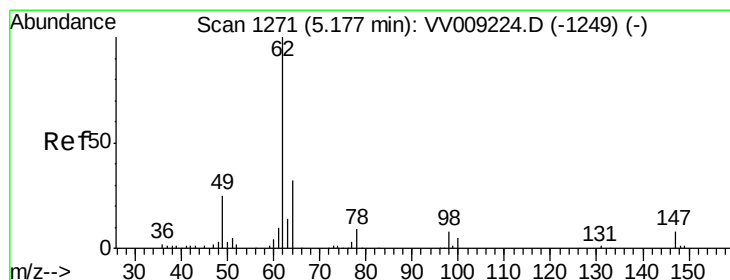
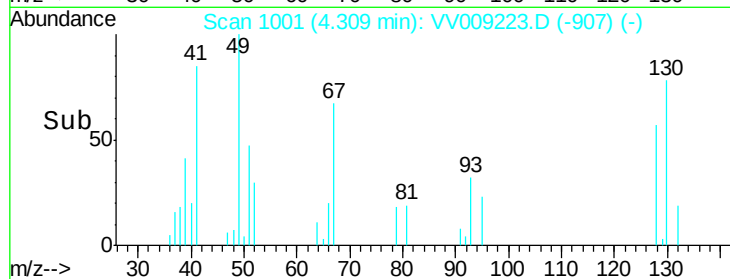
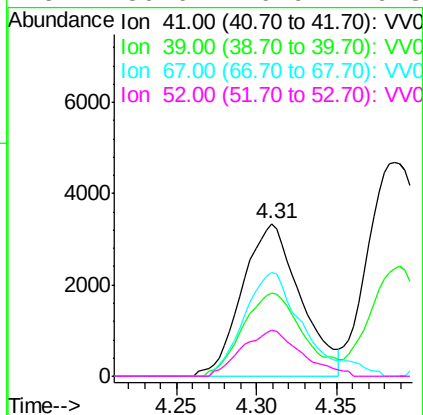
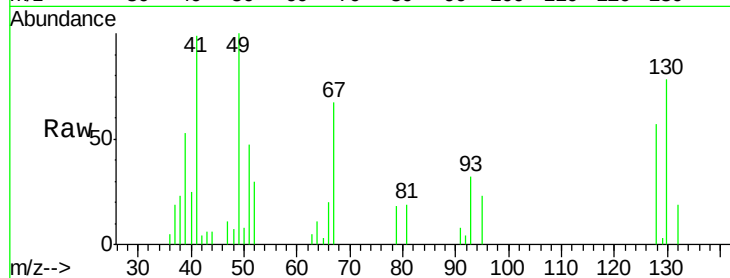
#41
Methacrylonitrile
Concen: 22.124 ug/l
RT: 4.31 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion:	41	Resp:	8374
Ion	Ratio	Lower	Upper
41	100		
39	57.1	44.8	67.2
67	69.6	57.5	86.3
52	30.6	26.9	40.3

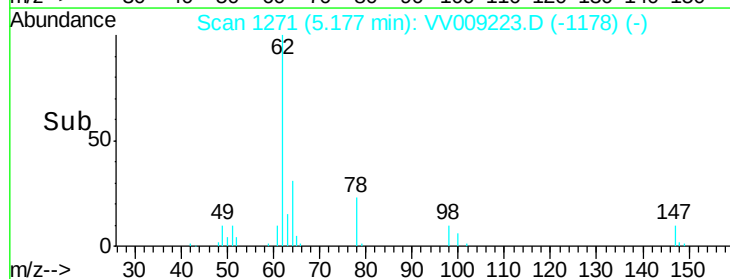
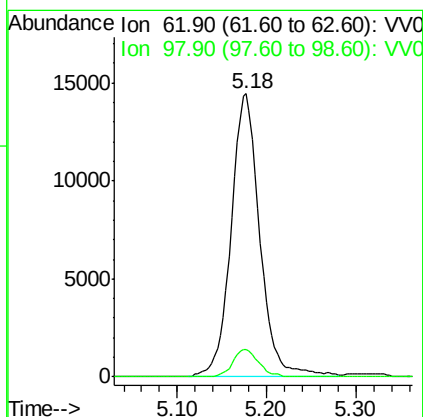
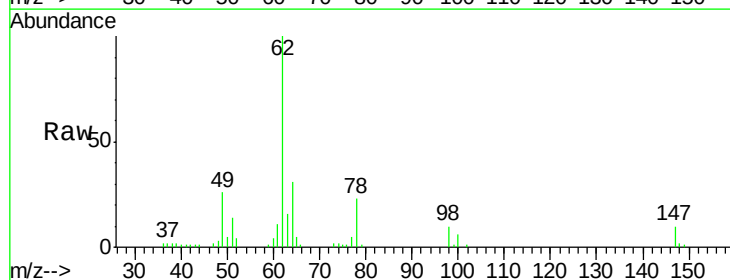
Manual Integrations
APPROVED

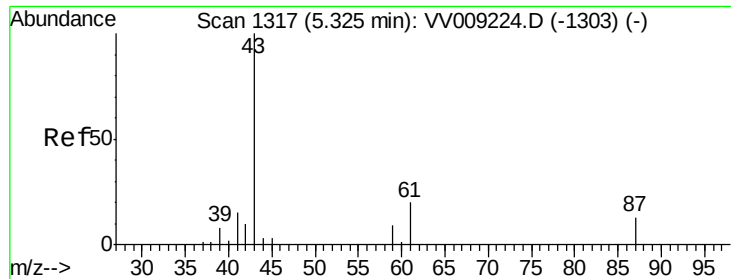
MMDadoda
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#42
1,2-Dichloroethane
Concen: 21.740 ug/l
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion:	62	Resp:	32379
Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	16.4





#43

Isopropyl Acetate

Concen: 22.434 ug/l

RT: 5.33 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

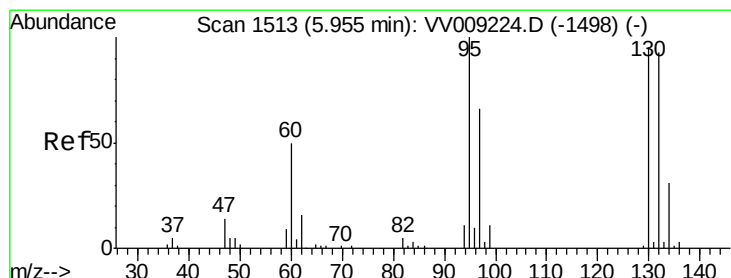
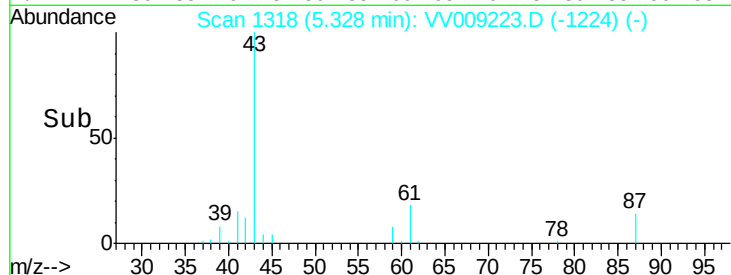
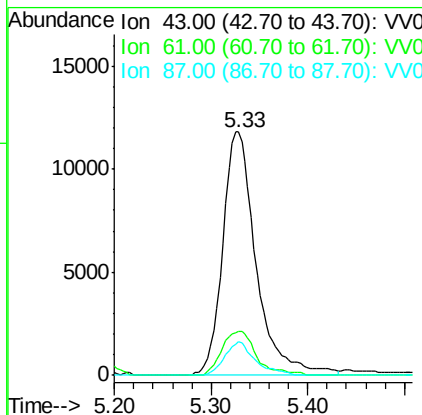
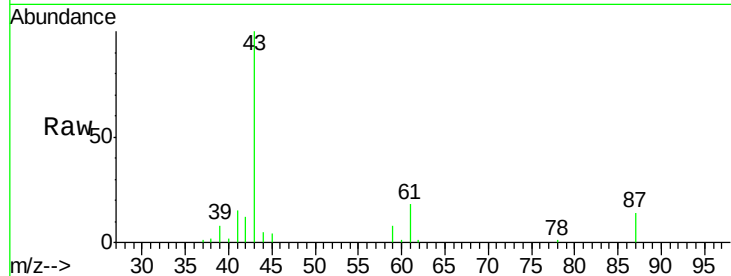
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	28355
Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.1	22.7
87	12.6	10.0	15.0

Manual Integrations
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1/21/2019 10:45:21 AM



#44

Trichloroethene

Concen: 21.336 ug/l

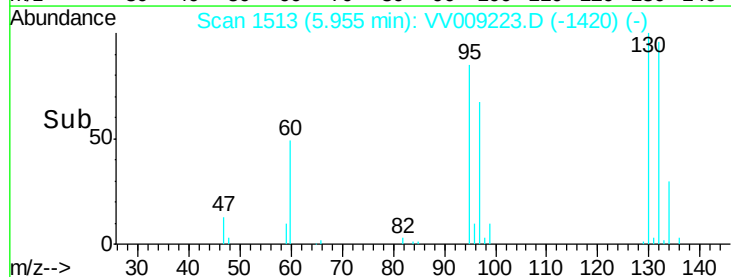
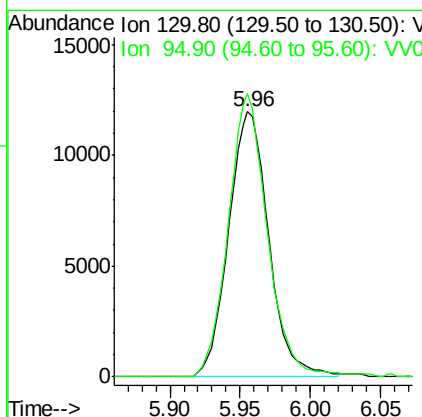
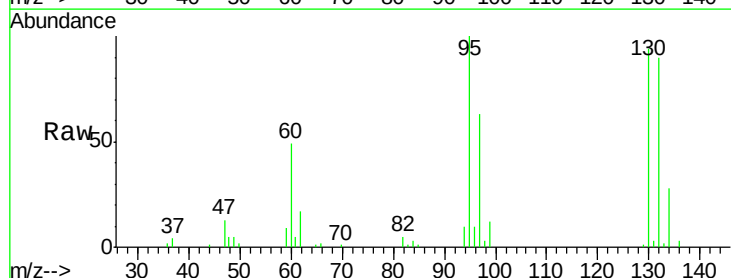
RT: 5.96 min Scan# 1513

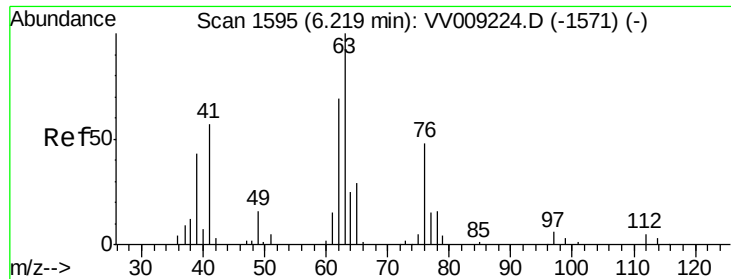
Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion:	130	Resp:	23833
Ion	Ratio	Lower	Upper
130	100		
95	106.7	0.0	209.4





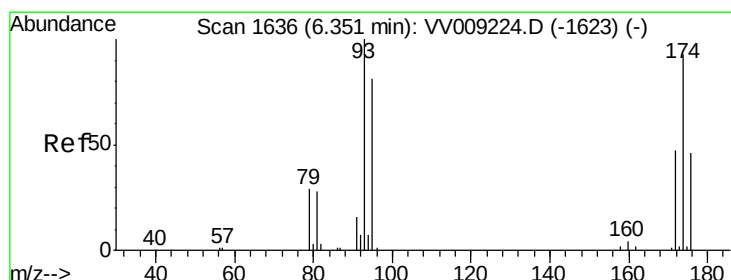
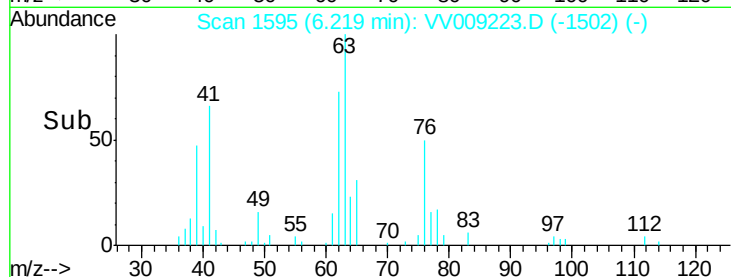
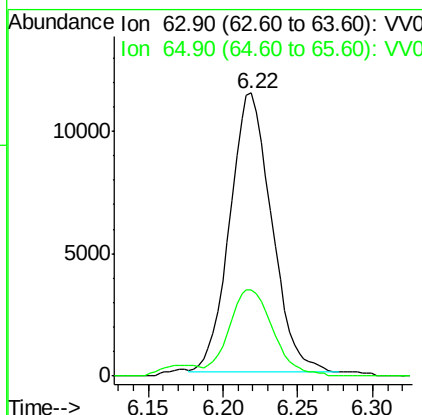
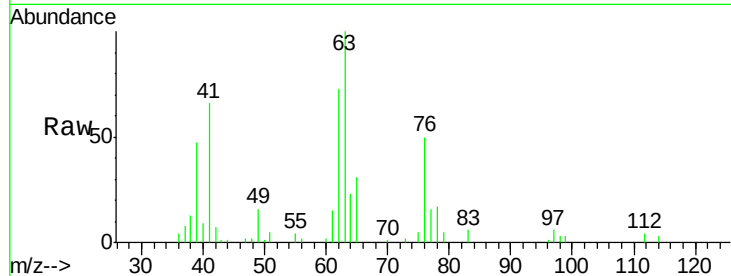
#45
 1,2-Dichloropropane
 Concen: 20.026 ug/l
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampled :
 VSTDIC020

Tot Ion: 63 Resp: 22209
 Ion Ratio Lower Upper
 63 100
 65 31.0 23.9 35.9

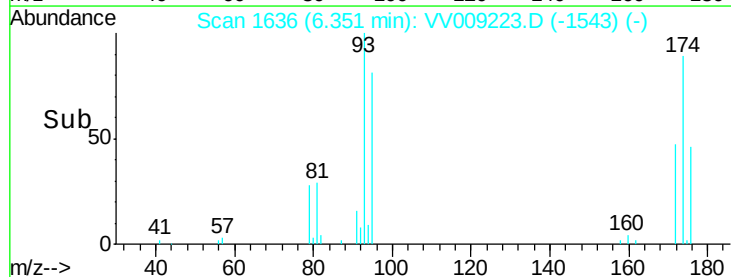
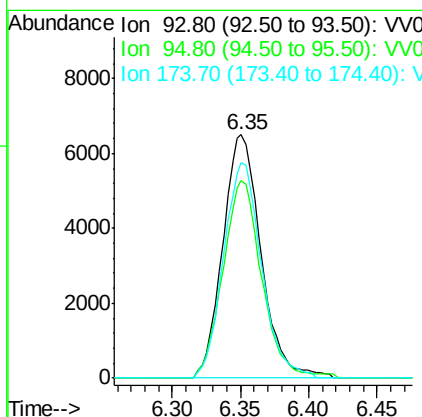
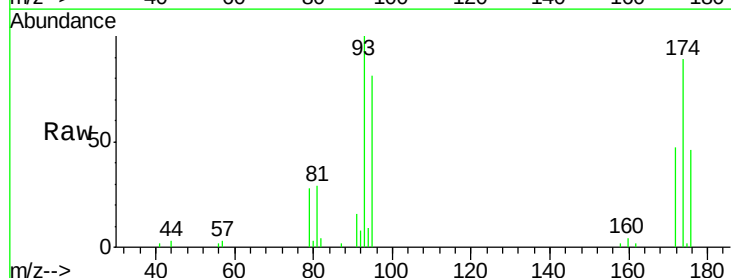
Manual Integrations
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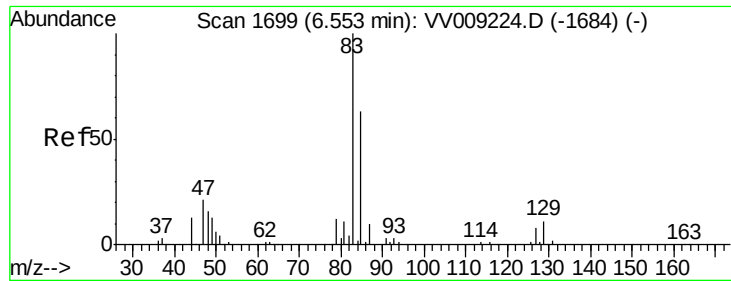
MMDadoda
 1/21/2019 10:45:21 AM



#46
 Dibromomethane
 Concen: 21.624 ug/l
 RT: 6.35 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion: 93 Resp: 12665
 Ion Ratio Lower Upper
 93 100
 95 81.6 66.2 99.4
 174 88.2 73.0 109.6





#47

Bromodichloromethane

Concen: 21.658 ug/l

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

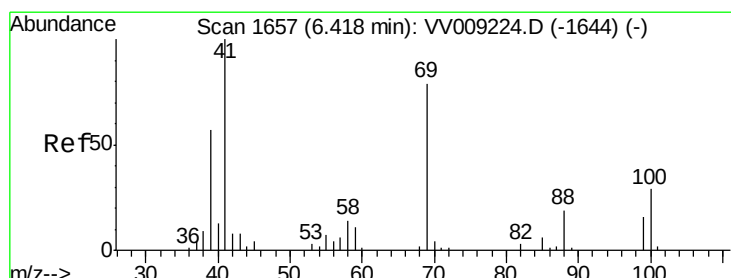
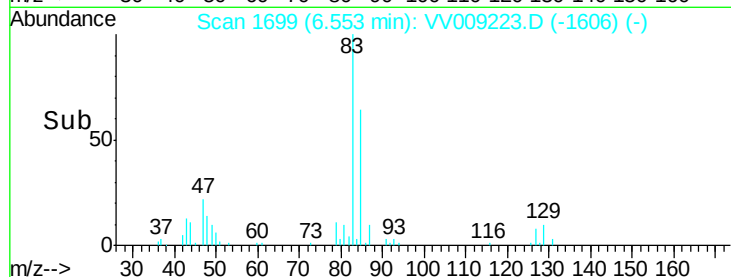
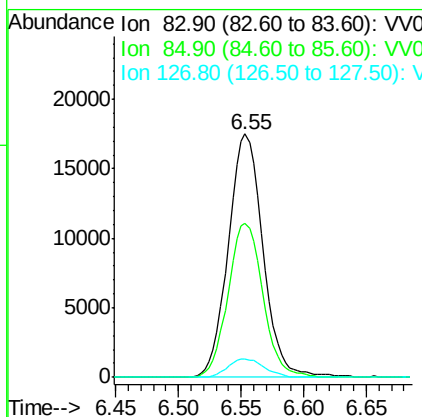
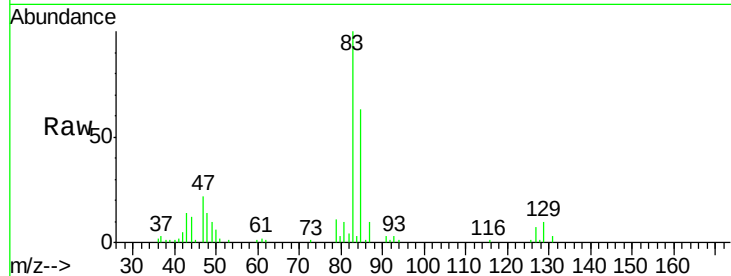
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	33673
Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.6	75.8
127	7.5	6.5	9.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.154 ug/l

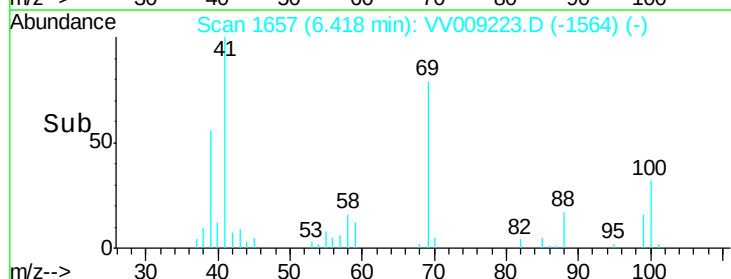
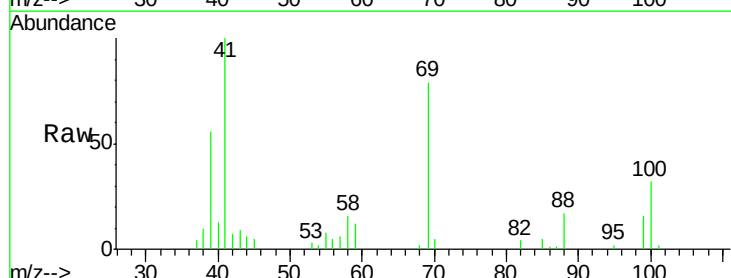
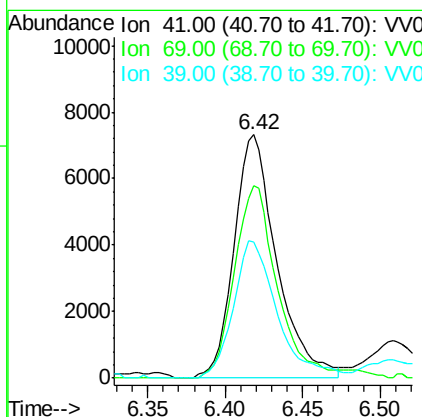
RT: 6.42 min Scan# 1657

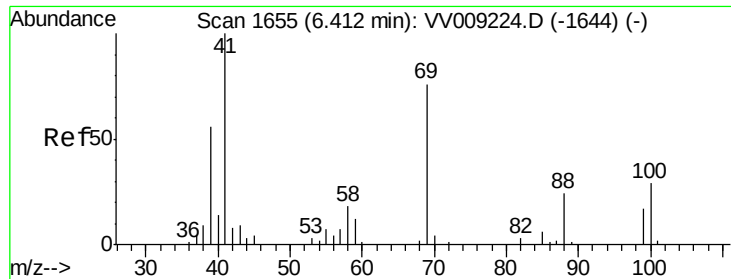
Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion:	41	Resp:	14030
Ion	Ratio	Lower	Upper
41	100		
69	79.5	62.2	93.4
39	58.0	44.7	67.1





#49

1,4-Dioxane

Concen: 408.754 ug/l

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

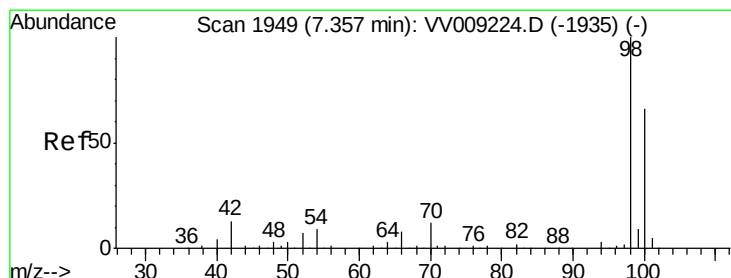
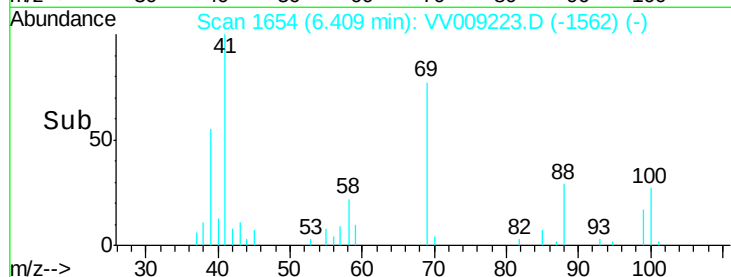
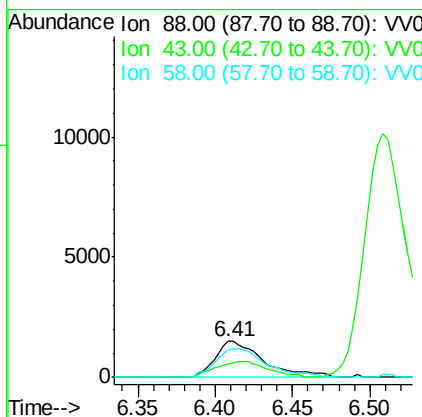
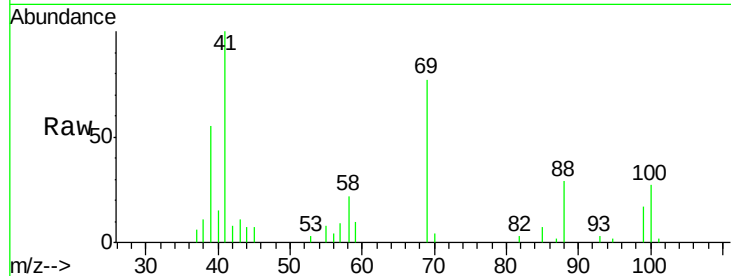
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	47.3	31.3	46.9#
58	84.5	59.6	89.4

Manual Integrations
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#50

Toluene-d8

Concen: 21.925 ug/l

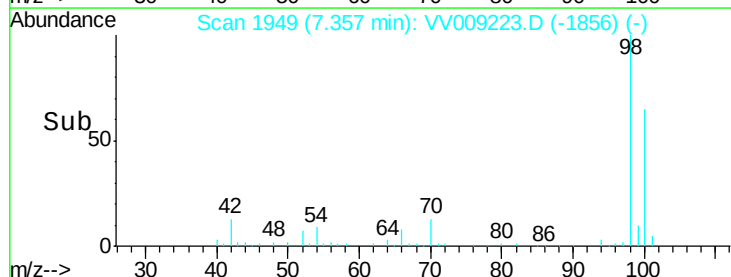
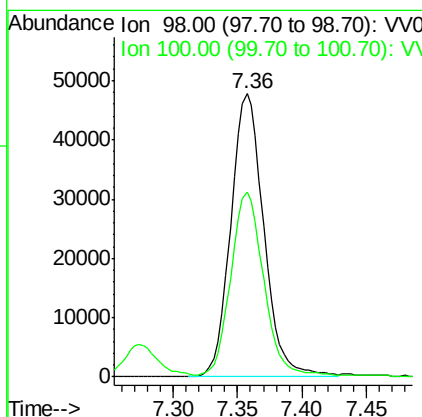
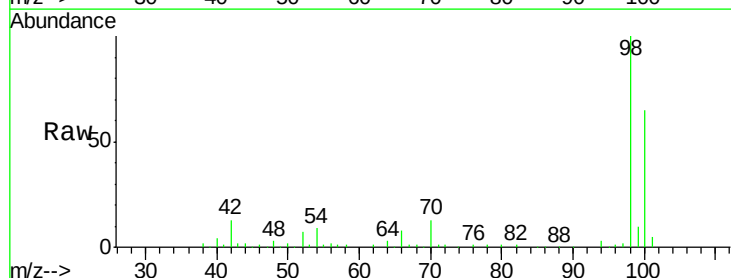
RT: 7.36 min Scan# 1949

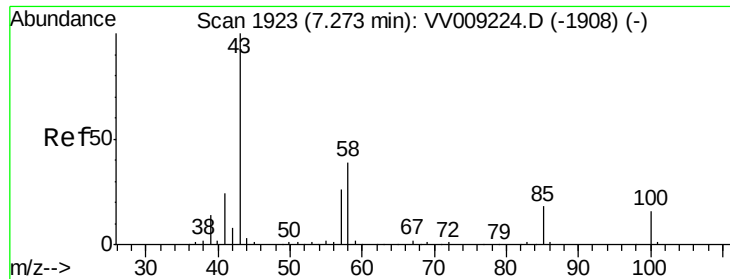
Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.3	78.5





#51

4-Methyl-2-Pentanone

Concen: 107.198 ug/l

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 70848

Ion Ratio Lower Upper

43 100

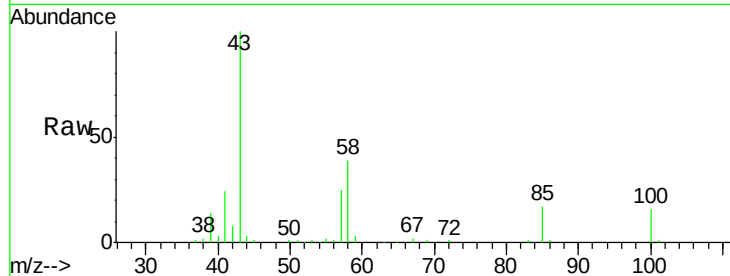
58 37.3 29.5 44.3

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VV009223.D (-1830) (-)

Ion 58.00 (57.70 to 58.70): VV009223.D (-1830) (-)

7.27

40000

30000

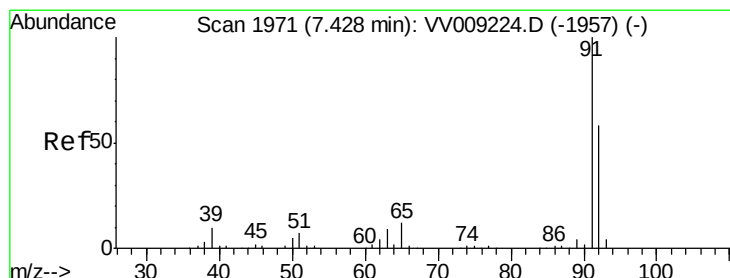
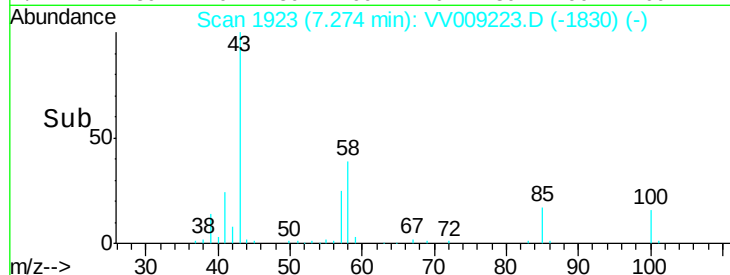
20000

10000

0

7.20 7.30 7.40

Time-->



#52

Toluene

Concen: 20.450 ug/l

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV009223.D

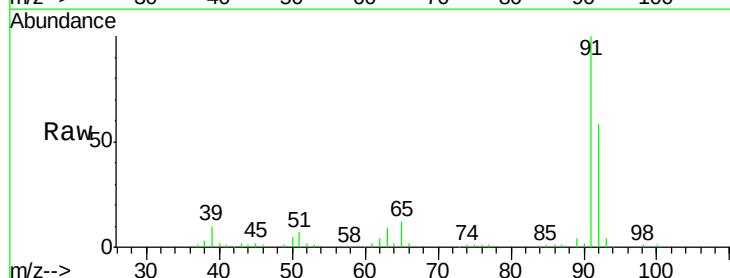
Acq: 18 Jan 2019 16:27

Tgt Ion: 92 Resp: 57599

Ion Ratio Lower Upper

92 100

91 176.7 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VV009223.D (-1878) (-)

Ion 91.00 (90.70 to 91.70): VV009223.D (-1878) (-)

7.43

60000

50000

40000

30000

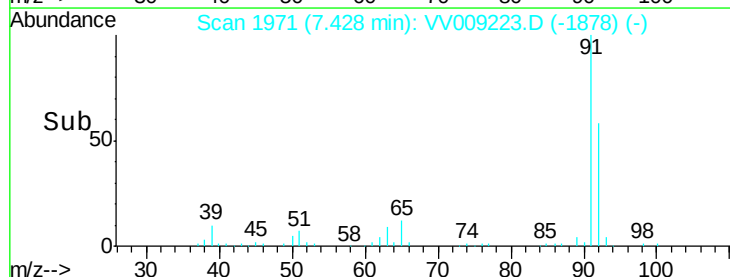
20000

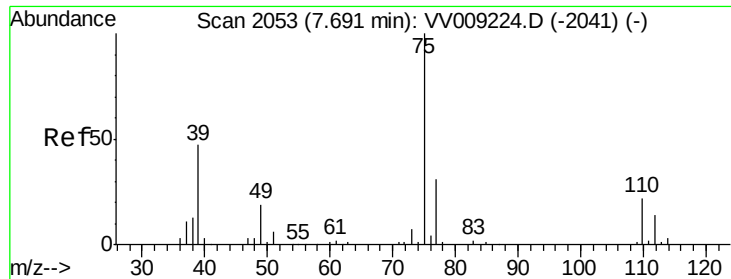
10000

0

7.35 7.40 7.45 7.50

Time-->





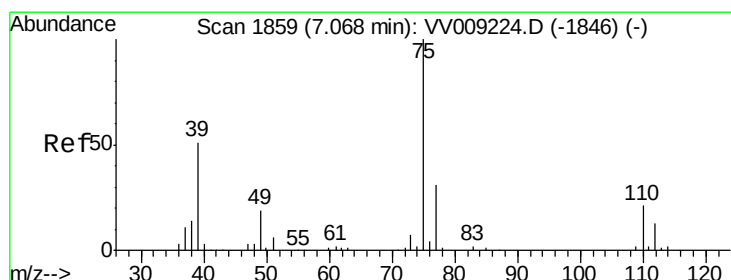
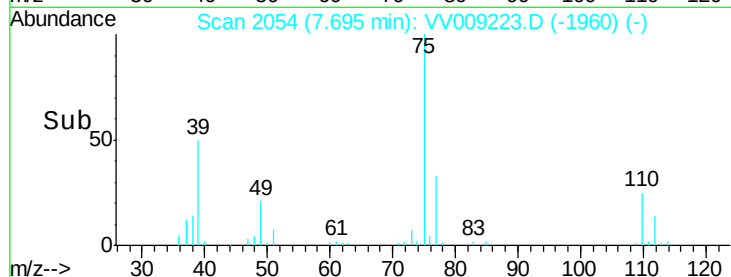
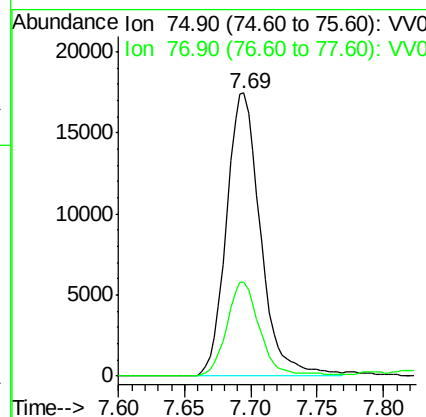
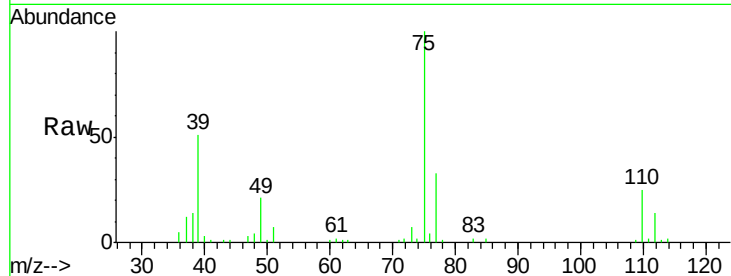
#53
t-1,3-Dichloropropene
Concen: 20.482 ug/l
RT: 7.69 min Scan# 2054
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 31230
Ion Ratio Lower Upper
75 100
77 33.3 24.4 36.6

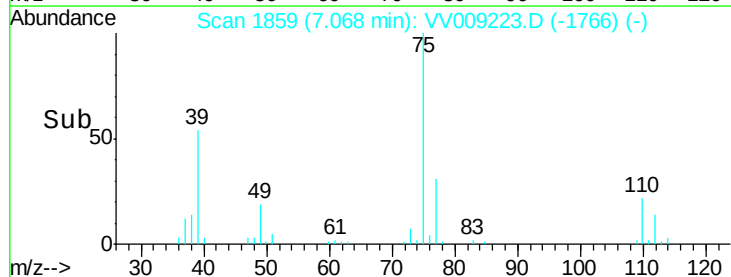
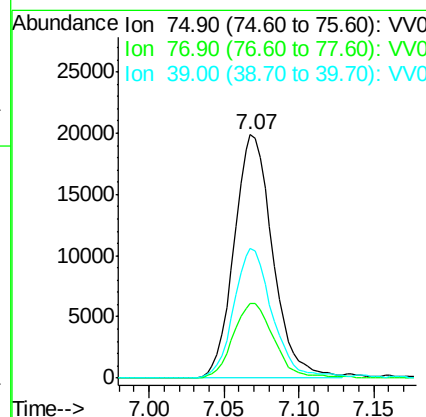
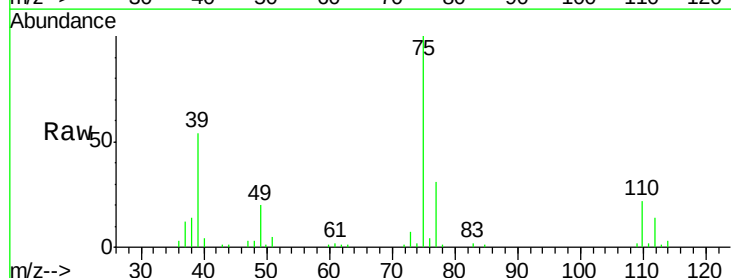
Manual Integrations
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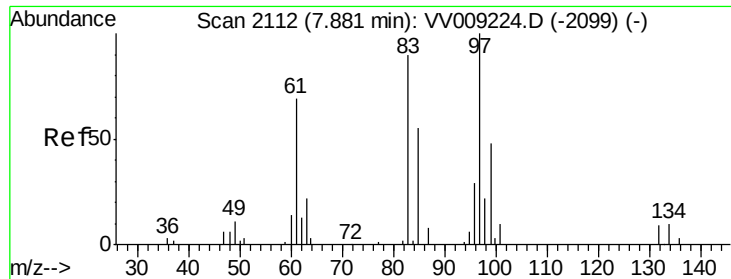
MMDadoda
1/21/2019 10:45:21 AM



#54
cis-1,3-Dichloropropene
Concen: 20.315 ug/l
RT: 7.07 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion: 75 Resp: 35783
Ion Ratio Lower Upper
75 100
77 30.6 24.7 37.1
39 53.5 40.8 61.2





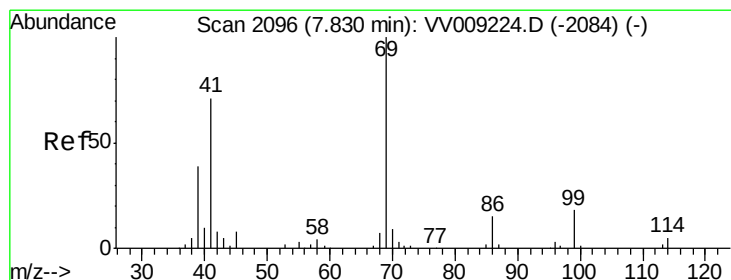
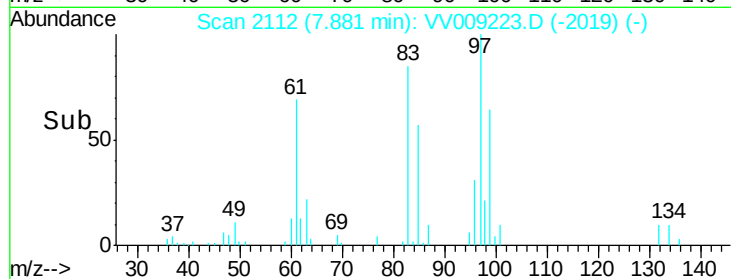
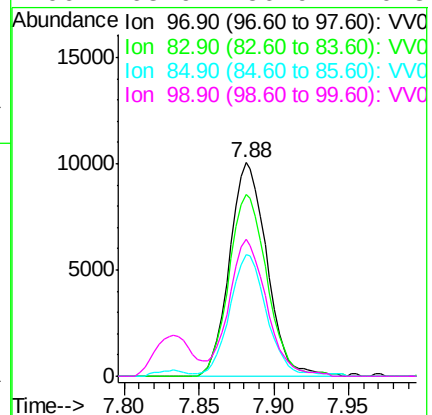
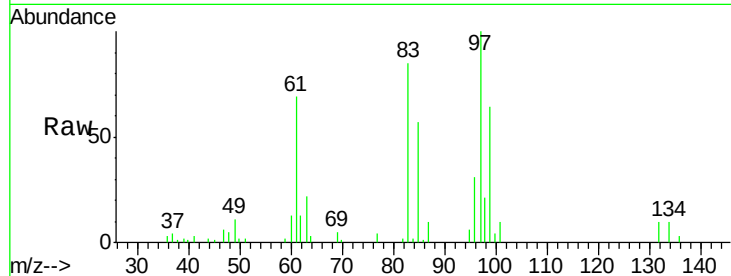
#55
1,1,2-Trichloroethane
Concen: 22.293 ug/l
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion:	97	Resp:	17481
Ion	Ratio	Lower	Upper
97	100		
83	84.8	71.9	107.9
85	55.6	44.8	67.2
99	63.9	50.9	76.3

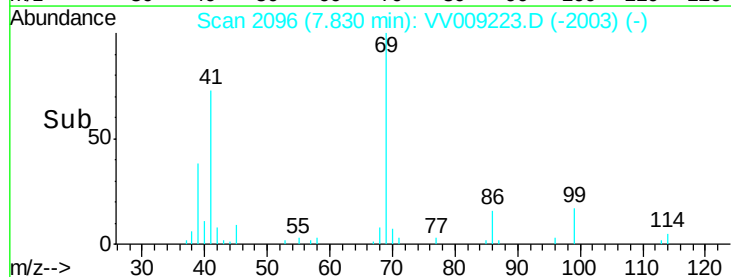
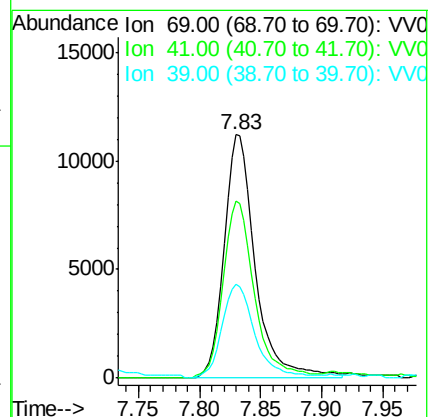
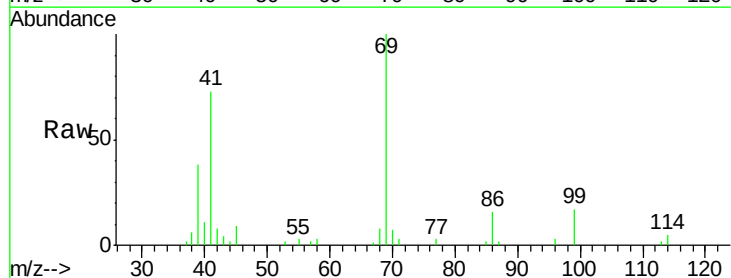
Manual Integrations
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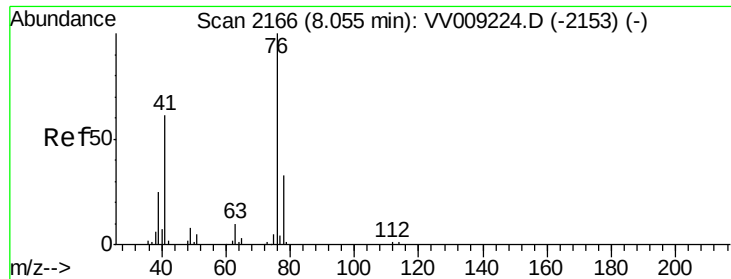
MMDadoda
1/21/2019 10:45:21 AM



#56
Ethyl methacrylate
Concen: 20.467 ug/l
RT: 7.83 min Scan# 2096
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion:	69	Resp:	20172
Ion	Ratio	Lower	Upper
69	100		
41	73.0	55.4	83.2
39	40.9	29.4	44.2





#57

1,3-Dichloropropane

Concen: 21.483 ug/l

RT: 8.06 min Scan# 2167

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 31764

Ion Ratio Lower Upper

76 100

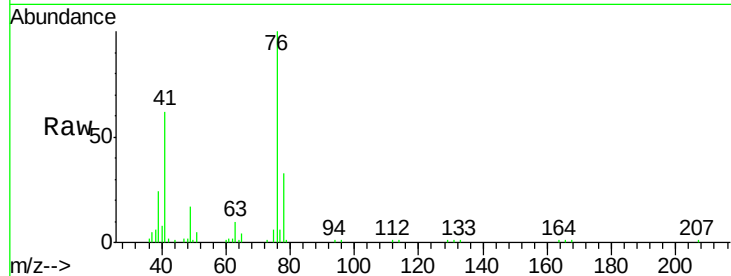
78 32.5 25.8 38.6

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VV0

Ion 77.90 (77.60 to 78.60): VV0

8.06

20000

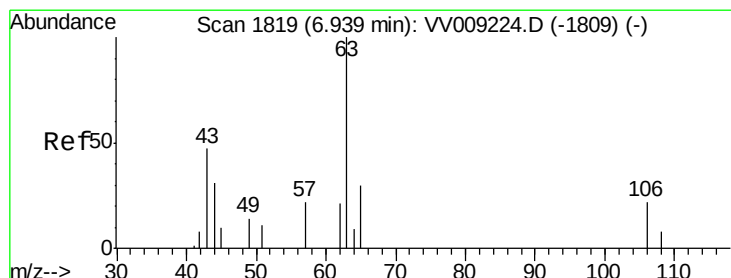
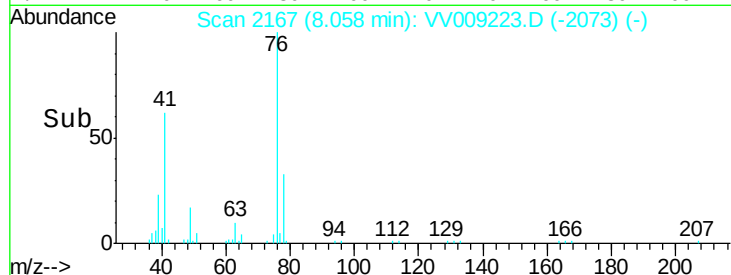
15000

10000

5000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 130.079 ug/l

RT: 6.94 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VV009223.D

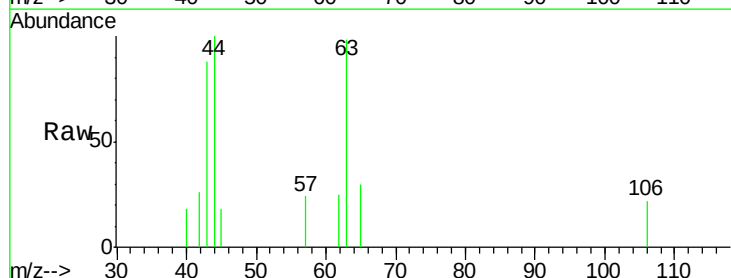
Acq: 18 Jan 2019 16:27

Tgt Ion: 63 Resp: 1152

Ion Ratio Lower Upper

63 100

106 11.5 16.6 24.8#



Abundance Ion 62.90 (62.60 to 63.60): VV0

Ion 105.90 (105.60 to 106.60): V

6.94

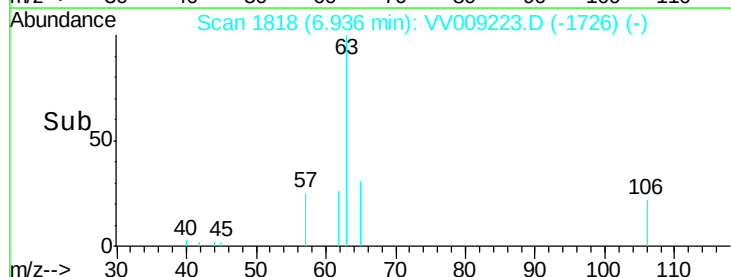
600

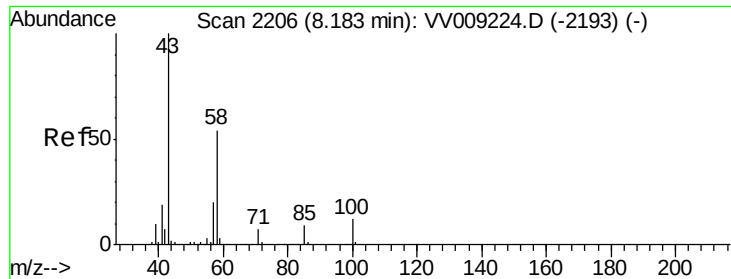
400

200

0

Time-->





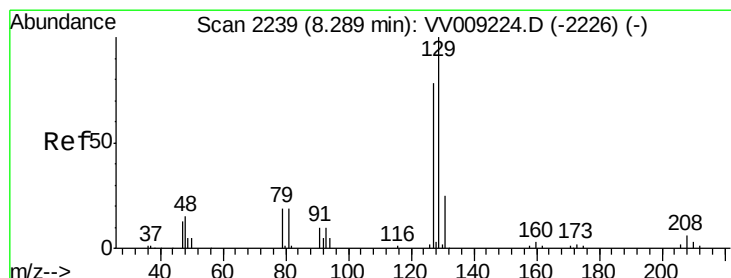
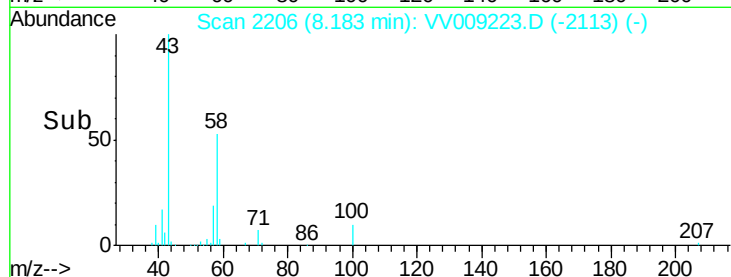
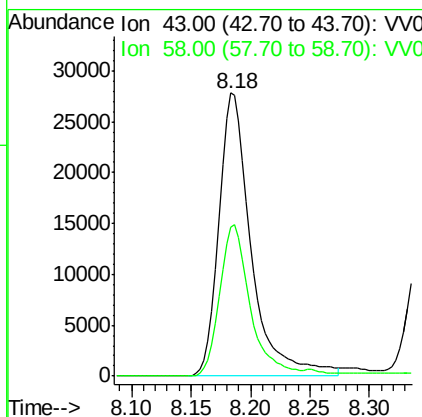
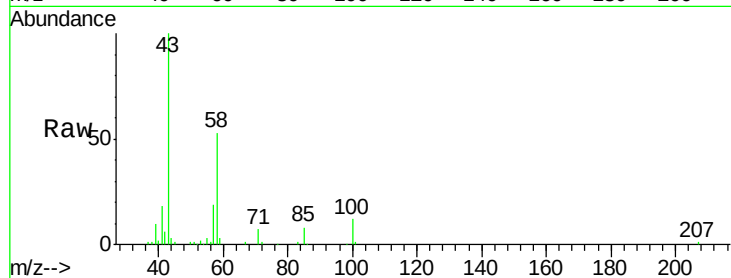
#59
2-Hexanone
Concen: 110.816 ug/l
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 52505
Ion Ratio Lower Upper
43 100
58 50.5 26.3 78.9

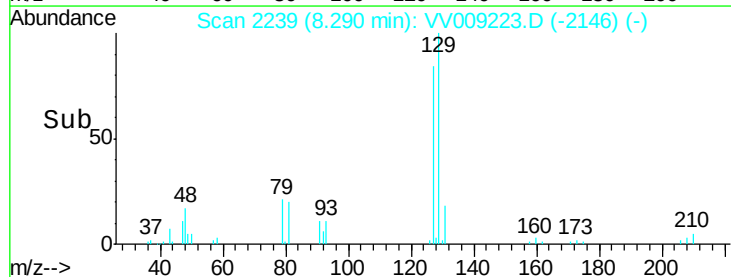
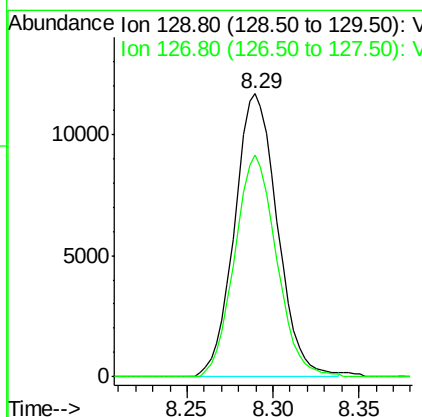
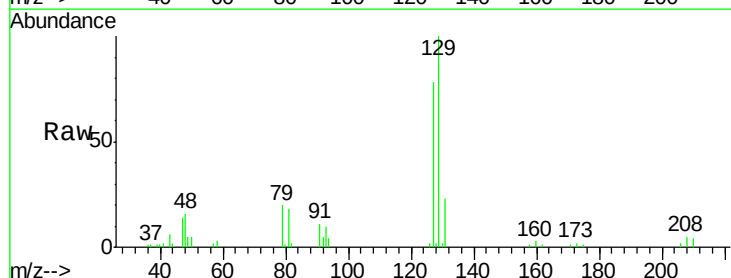
Manual Integrations
APPROVED

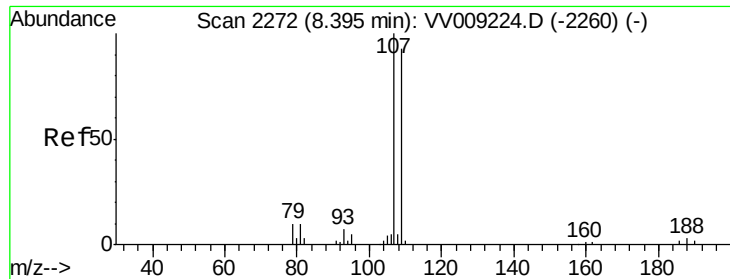
MMDadoda
1/21/2019 10:45:21 AM



#60
Dibromochloromethane
Concen: 20.875 ug/l
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion: 129 Resp: 20156
Ion Ratio Lower Upper
129 100
127 76.6 38.6 115.8





#61

1,2-Dibromoethane

Concen: 21.749 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 17045

Ion Ratio Lower Upper

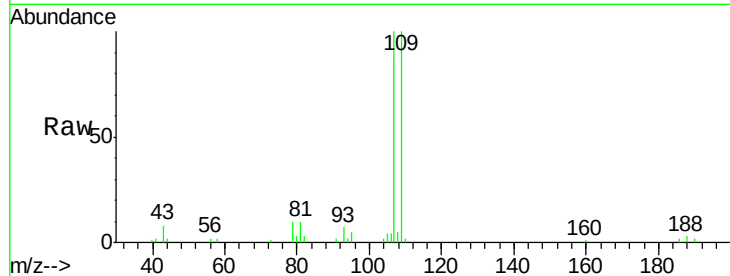
107 100

109 95.7 75.5 113.3

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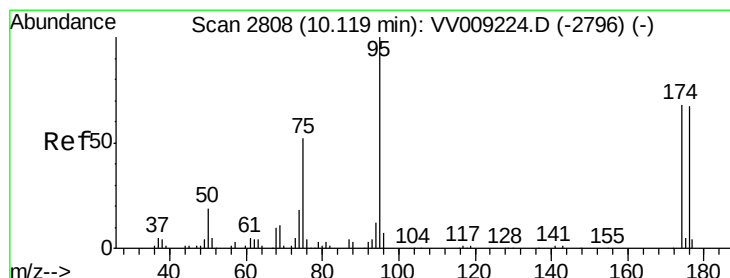
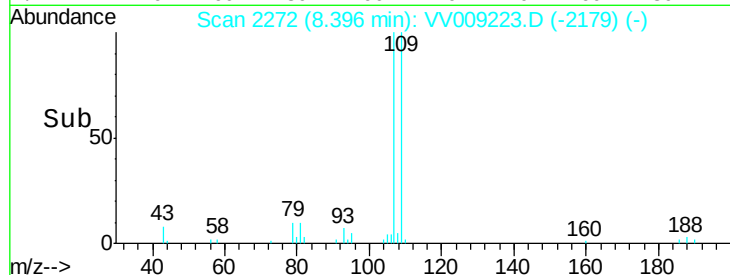
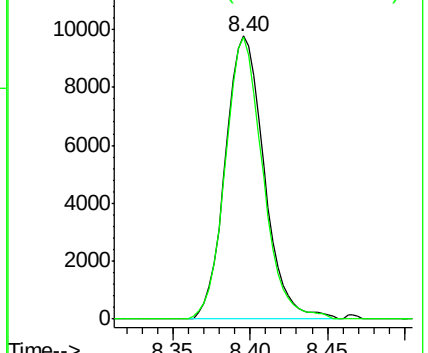
MMDadoda

1/21/2019 10:45:21 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 21.920 ug/l

RT: 10.12 min Scan# 2808

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

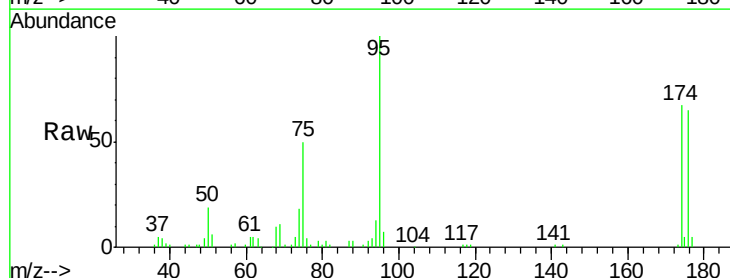
Tgt Ion: 95 Resp: 33161

Ion Ratio Lower Upper

95 100

174 70.5 0.0 141.6

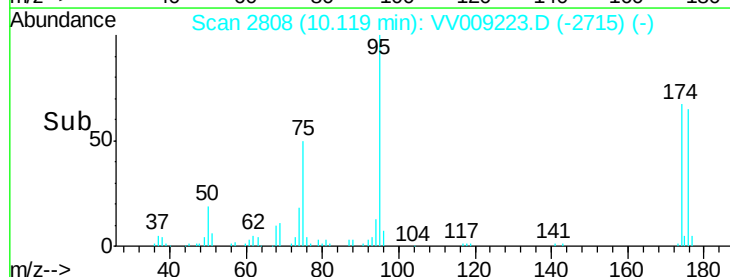
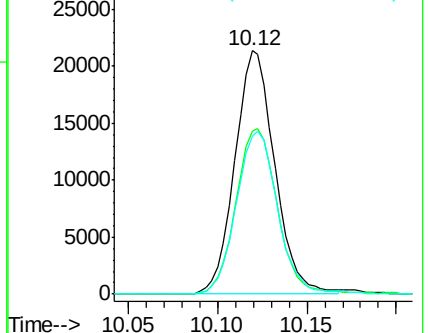
176 69.4 0.0 138.6

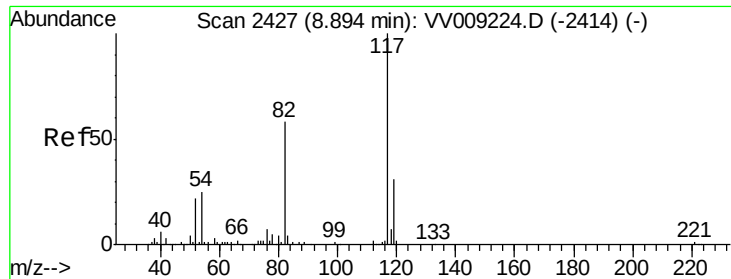


Abundance Ion 94.90 (94.60 to 95.60): VV0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





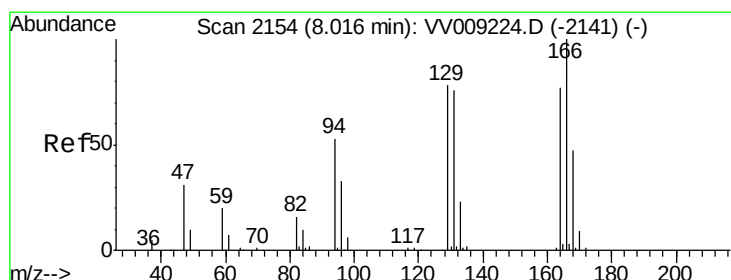
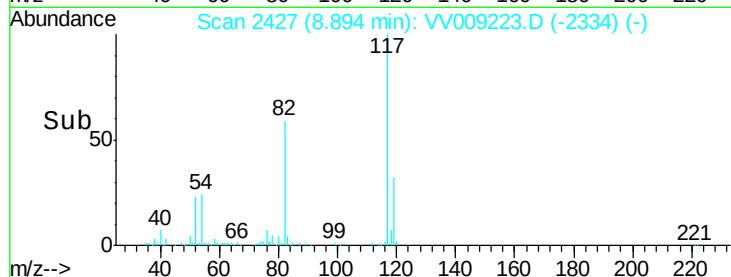
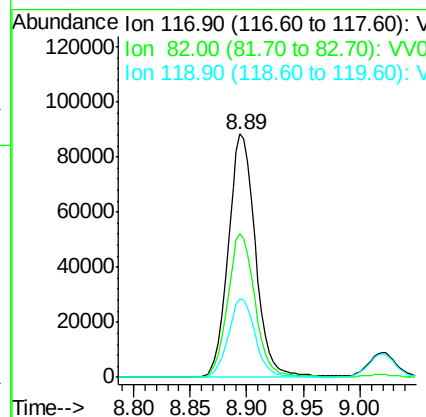
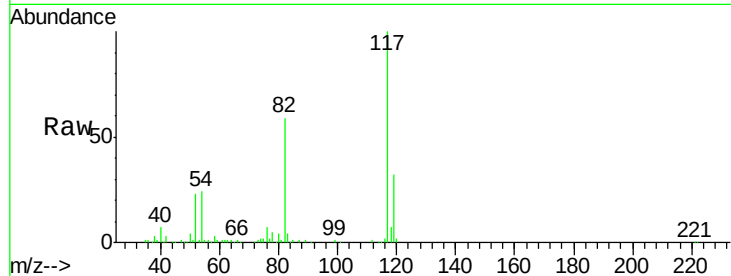
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.89 min Scan# 2427
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.3	46.2	69.2
119	32.2	25.0	37.4

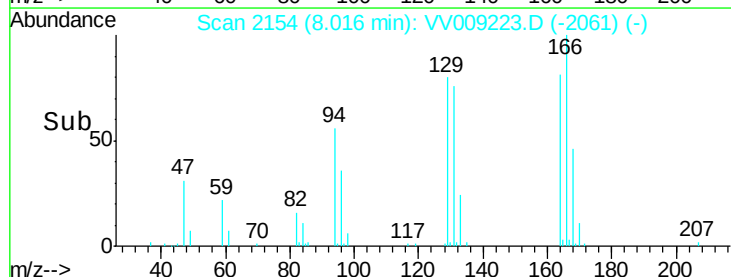
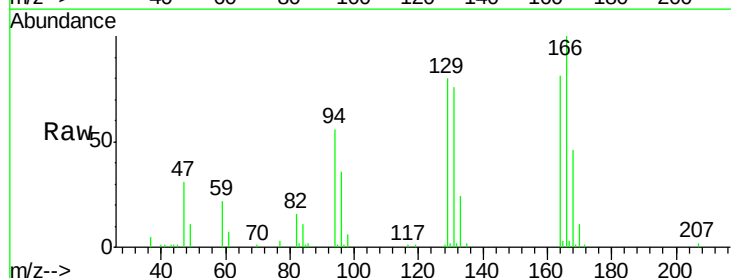
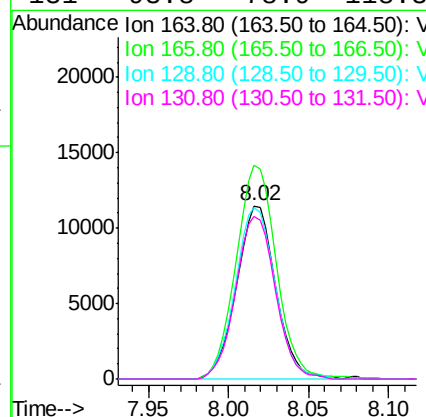
Manual Integrations
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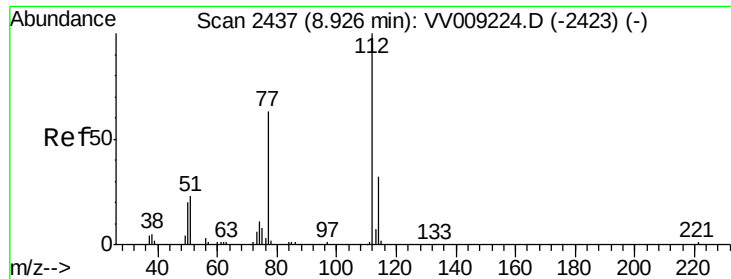
MMDadoda
1/21/2019 10:45:21 AM



#64
Tetrachloroethene
Concen: 20.899 ug/l
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.4	104.2	156.2
129	99.1	81.0	121.4
131	93.8	78.9	118.3





#65

Chlorobenzene

Concen: 20.804 ug/l

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 64695

Ion Ratio Lower Upper

112 100

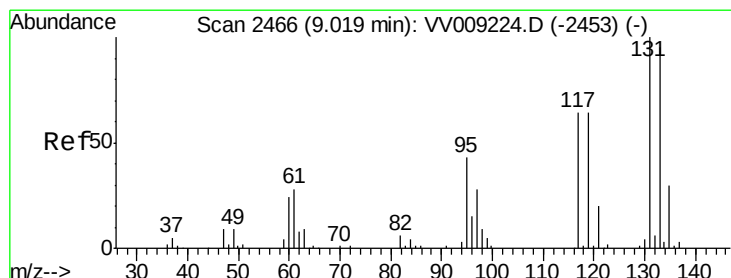
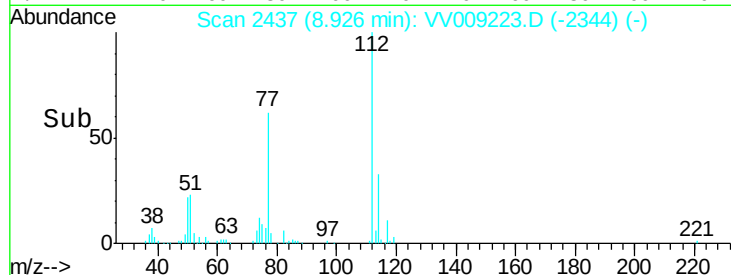
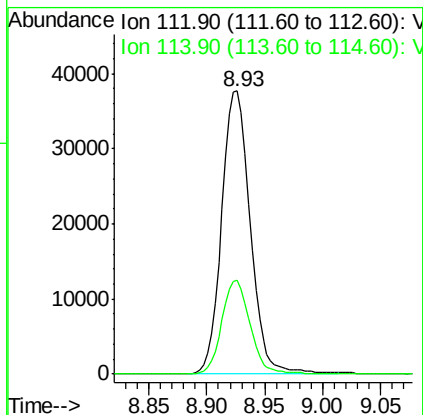
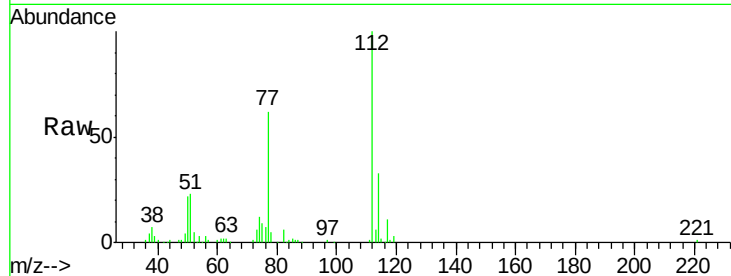
114 33.0 25.8 38.6

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 20.117 ug/l

RT: 9.02 min Scan# 2466

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

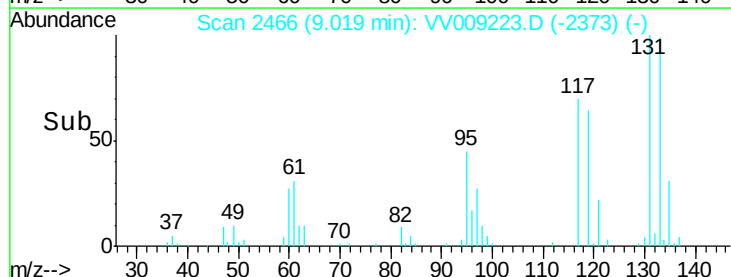
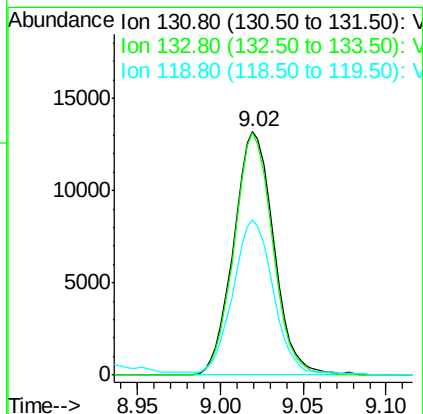
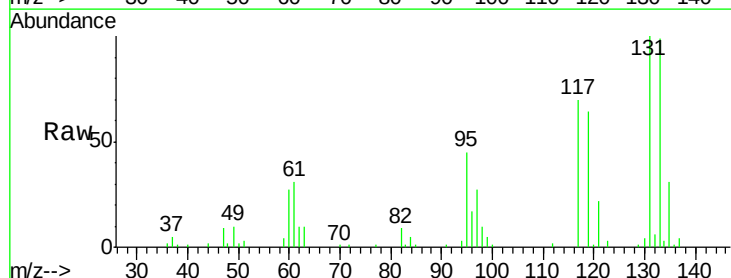
Tgt Ion:131 Resp: 22216

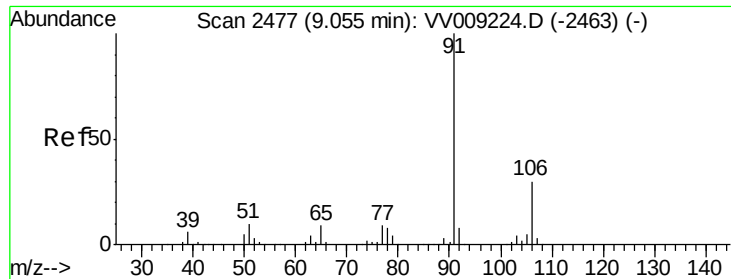
Ion Ratio Lower Upper

131 100

133 95.3 47.3 141.8

119 62.1 32.5 97.5





#67

Ethyl Benzene

Concen: 20.439 ug/l

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 114606

Ion Ratio Lower Upper

91 100

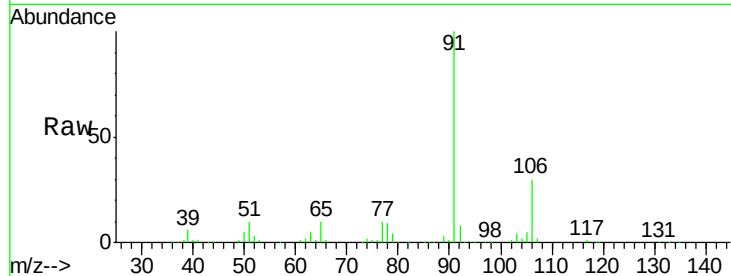
106 29.8 24.1 36.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VV009223.D (-2384) (-)

Ion 106.00 (105.70 to 106.70): VV009223.D (-2384) (-)

120000

100000

80000

60000

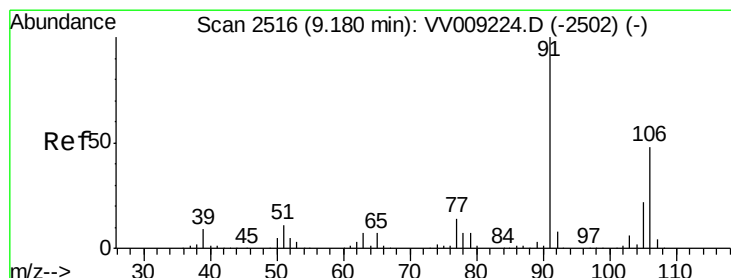
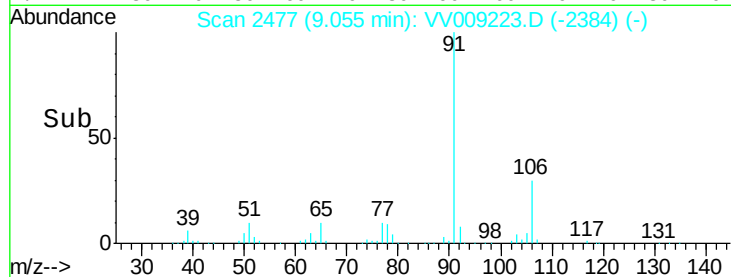
40000

20000

0

9.00 9.05 9.10 9.15

Time-->



#68

m/p-Xylenes

Concen: 41.407 ug/l

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV009223.D

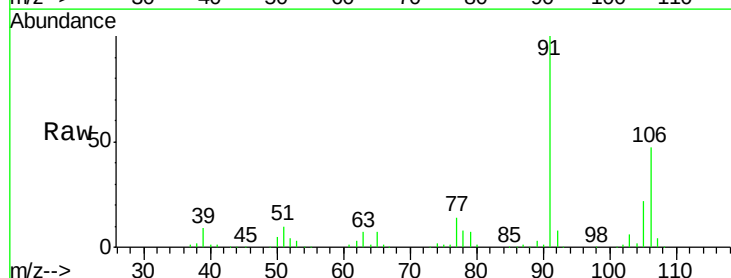
Acq: 18 Jan 2019 16:27

Tgt Ion: 106 Resp: 86628

Ion Ratio Lower Upper

106 100

91 210.8 170.4 255.6



Abundance Ion 106.00 (105.70 to 106.70): VV009223.D (-2423) (-)

Ion 91.00 (90.70 to 91.70): VV009223.D (-2423) (-)

120000

100000

80000

60000

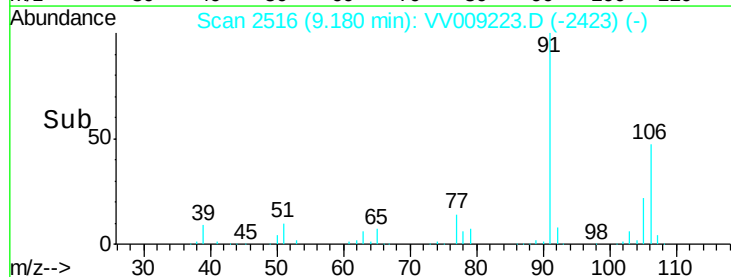
40000

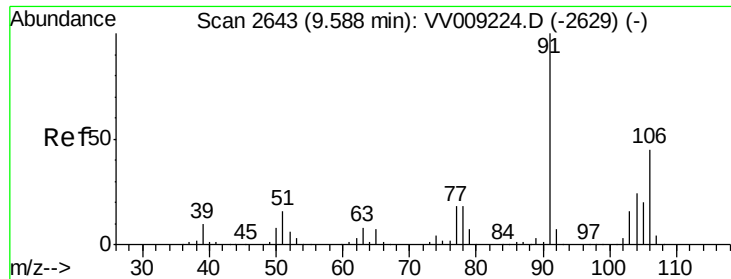
20000

0

9.10 9.20 9.30

Time-->





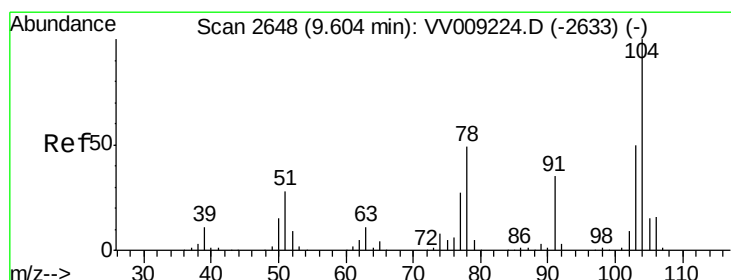
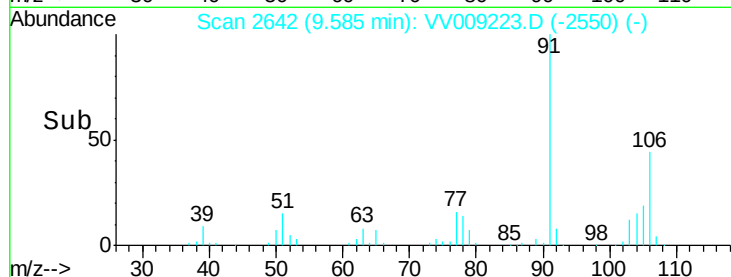
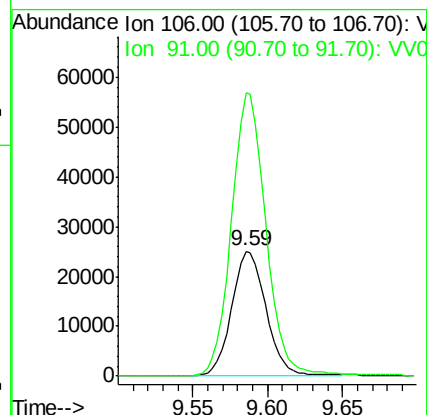
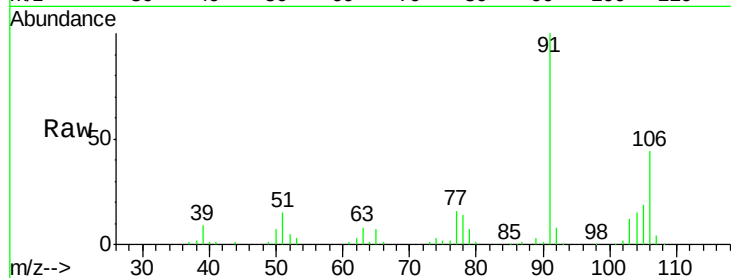
#69
o-Xylene
Concen: 20.106 ug/l
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 40362
Ion Ratio Lower Upper
106 100
91 227.4 110.6 331.8

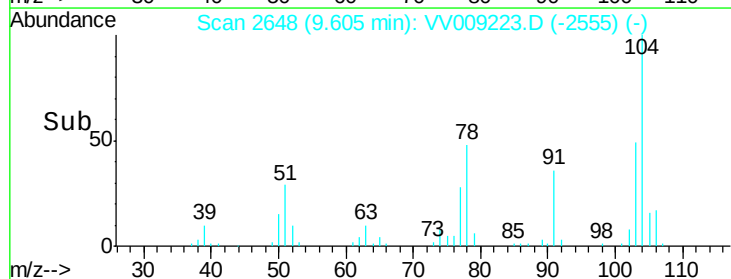
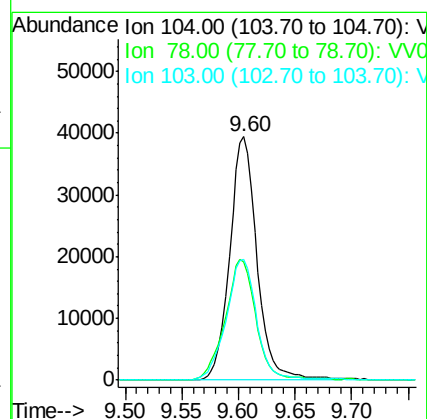
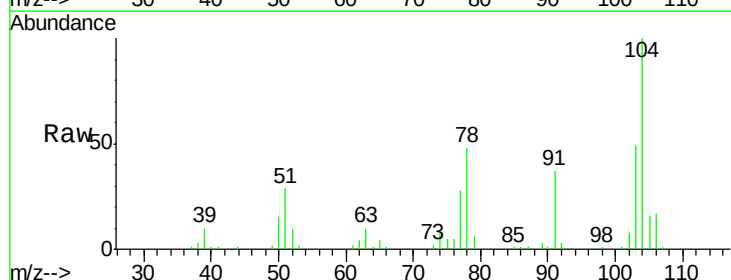
Manual Integrations
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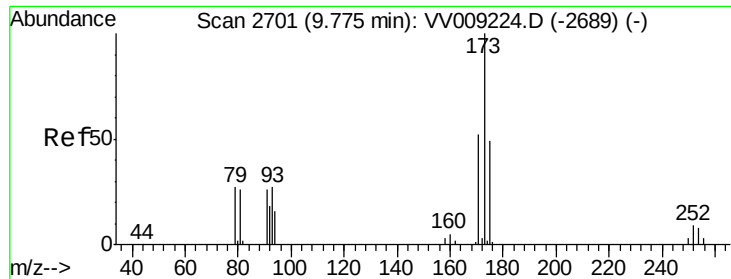
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#70
Styrene
Concen: 20.132 ug/l
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion:104 Resp: 66290
Ion Ratio Lower Upper
104 100
78 55.8 43.7 65.5
103 55.8 44.0 66.0





#71

Bromoform

Concen: 19.906 ug/l

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

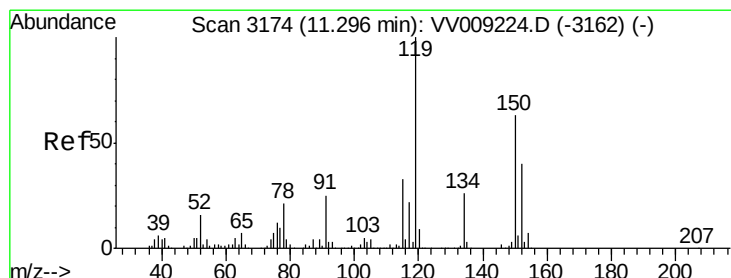
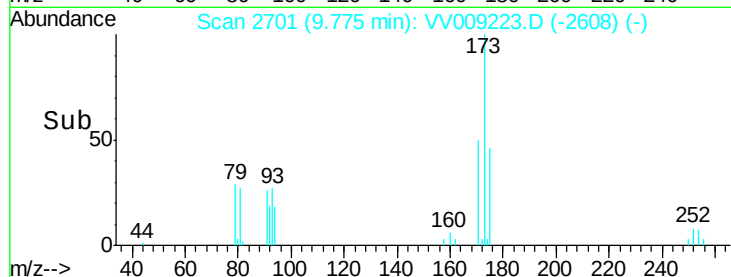
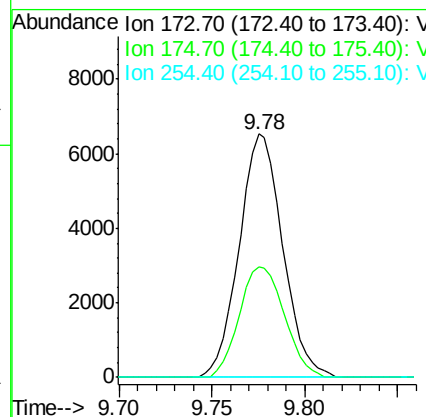
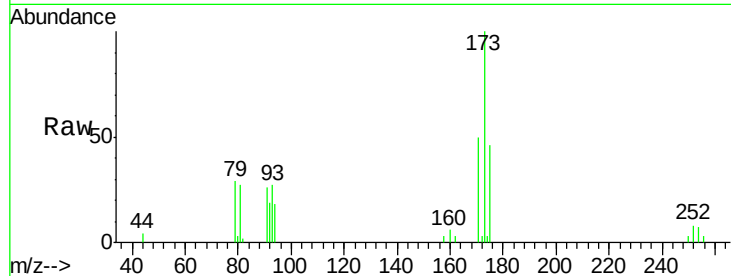
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	24.1	72.4
254	0.0	0.0	0.0

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

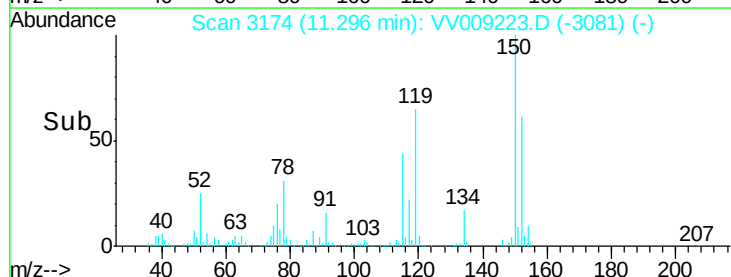
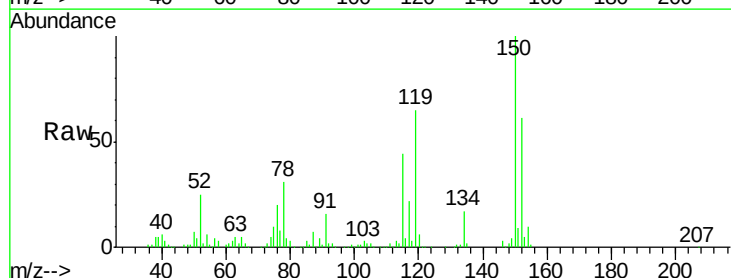
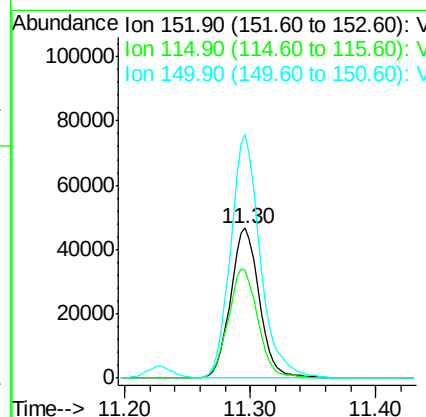
RT: 11.30 min Scan# 3174

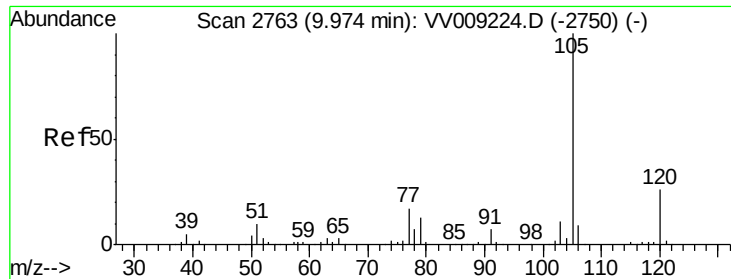
Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	74.8	45.1	135.3
150	167.1	0.0	350.8





#73

Isopropylbenzene

Concen: 20.499 ug/l

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tot Ion: 105 Resp: 113286

Ion Ratio Lower Upper

105 100

120 26.0 12.9 38.6

Instrument :

MSVOA_V

ClientSampleId :

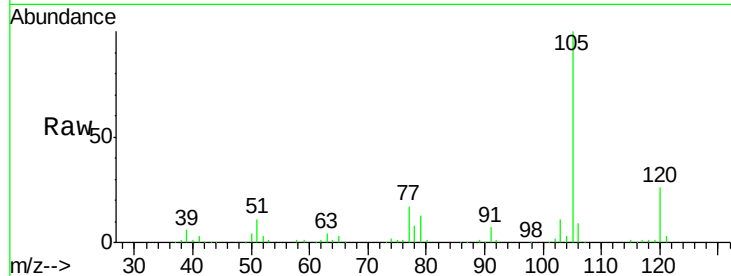
VSTDIC020

Manual Integrations

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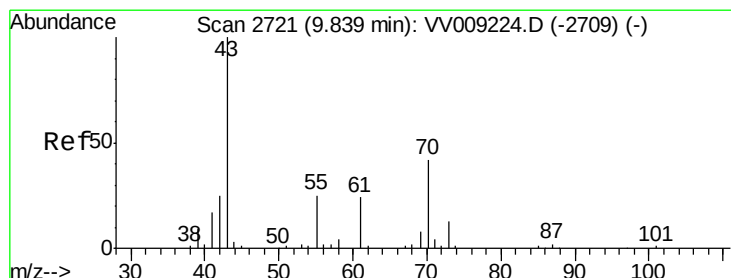
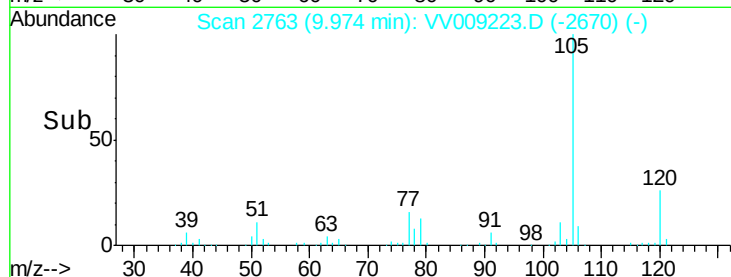
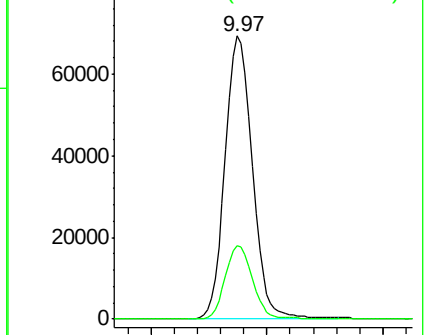
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.864 ug/l

RT: 9.84 min Scan# 2721

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion: 43 Resp: 24507

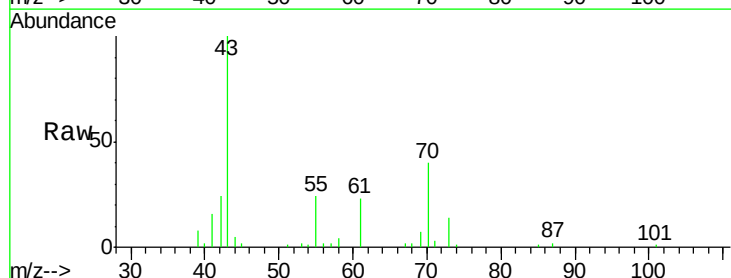
Ion Ratio Lower Upper

43 100

70 40.8 32.4 48.6

55 24.7 19.9 29.9

61 22.4 19.0 28.6

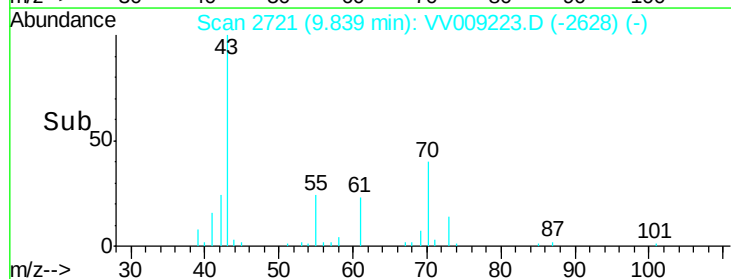
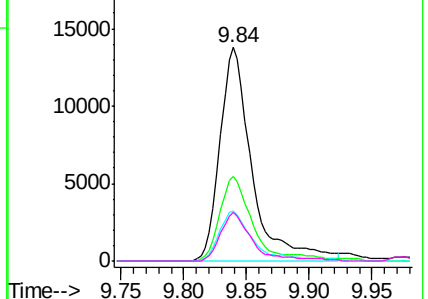


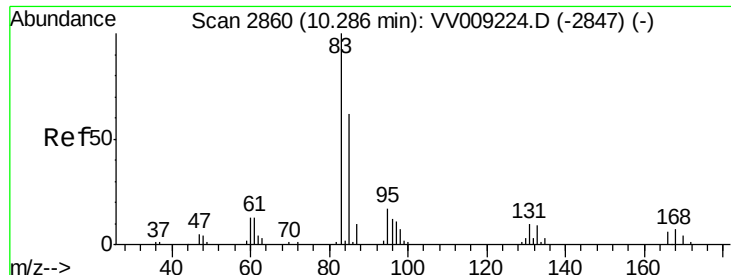
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 70.00 (69.70 to 70.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 61.00 (60.70 to 61.70): VV0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.594 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

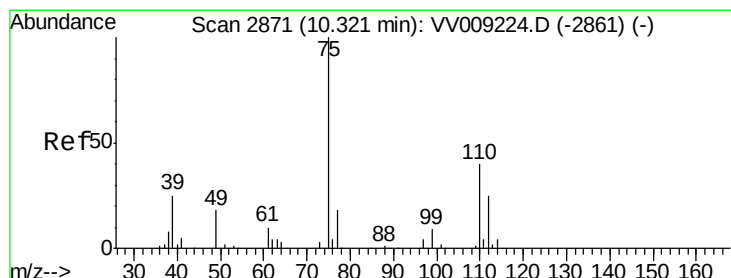
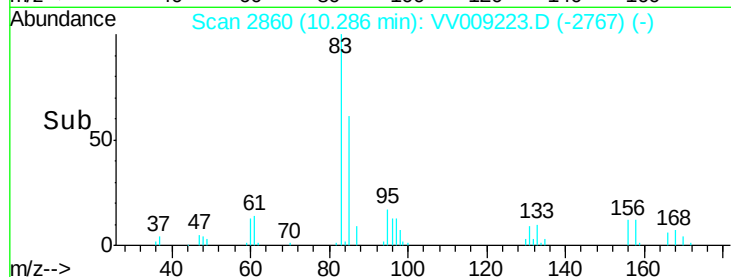
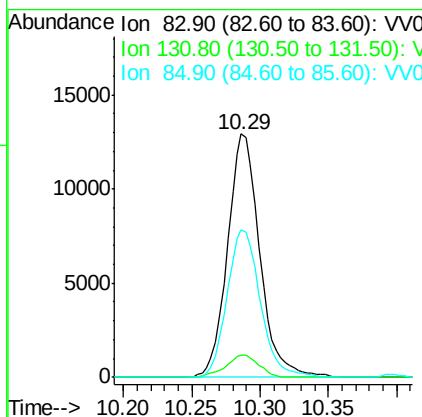
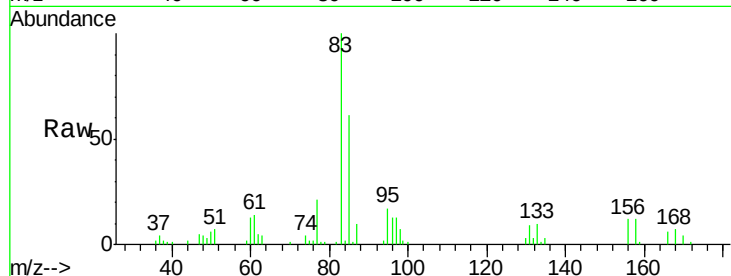
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	21240
Ion Ratio	Lower	Upper	
83	100		
131	9.4	5.2	15.6
85	62.4	31.6	94.7

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#76

1,2,3-Trichloropropane

Concen: 22.165 ug/l m

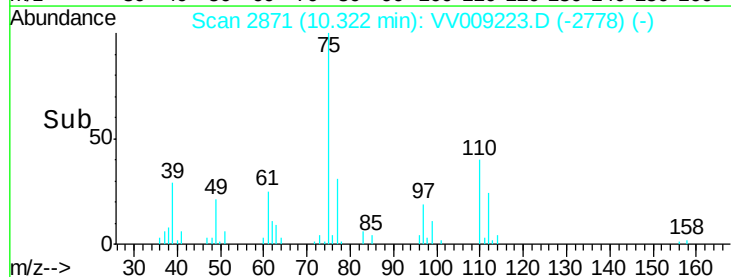
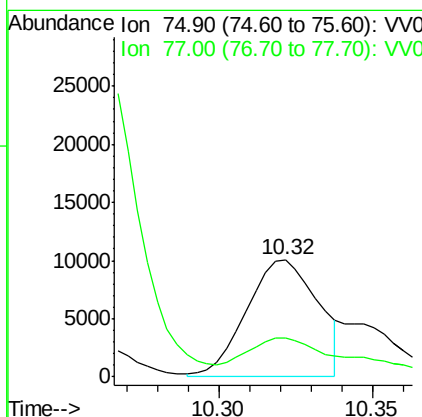
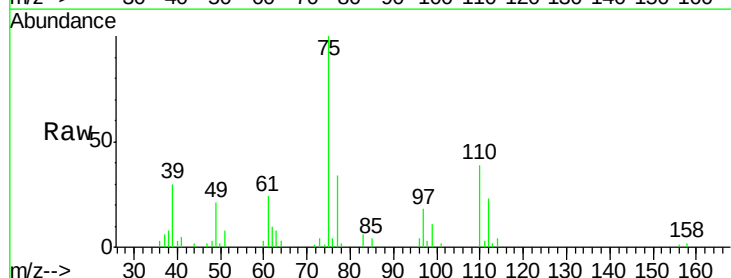
RT: 10.32 min Scan# 2871

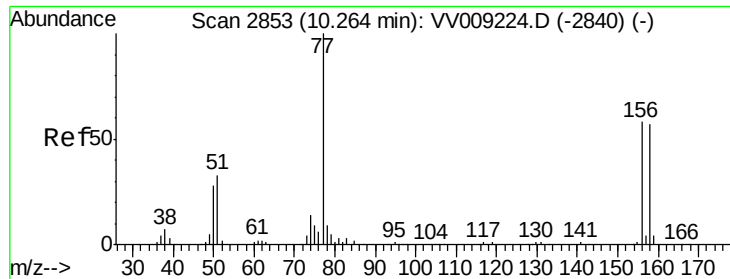
Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion:	75	Resp:	16451
Ion Ratio	Lower	Upper	
75	100		
77	48.3	24.1	72.3





#77

Bromobenzene

Concen: 21.034 ug/l

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

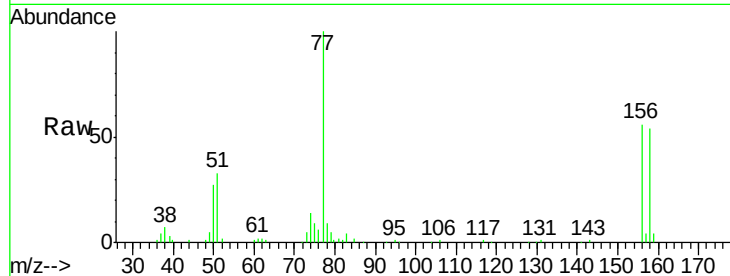
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	25384
Ion Ratio	Lower	Upper	
156	100		
77	179.2	86.6	259.7
158	97.8	48.8	146.3

Manual Integrations
APPROVED

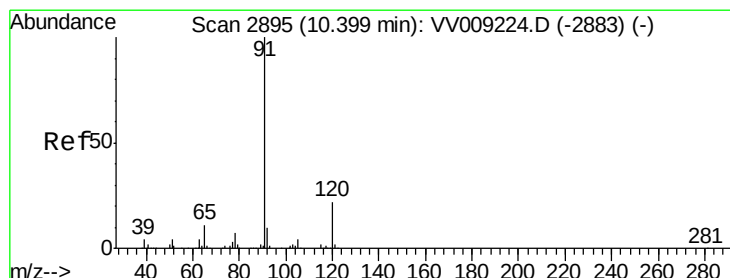
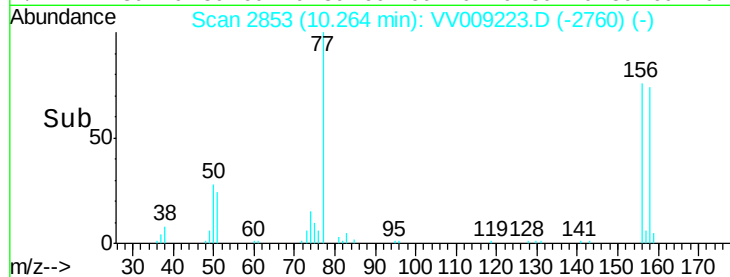
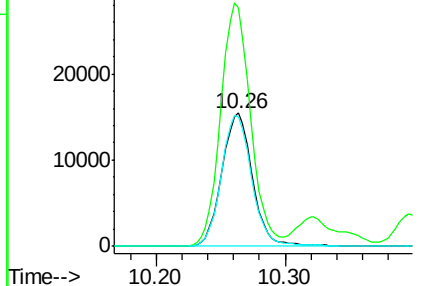
MMDadoda
1/21/2019 10:45:21 AM



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: 20.438 ug/l

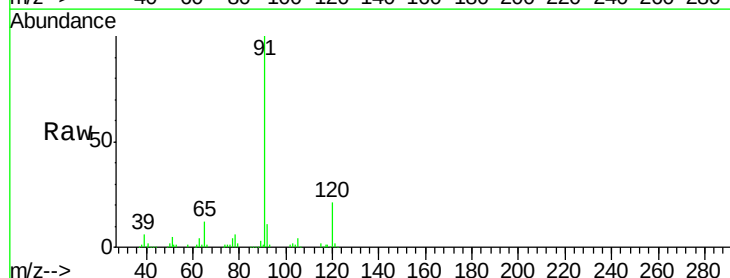
RT: 10.40 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VV009223.D

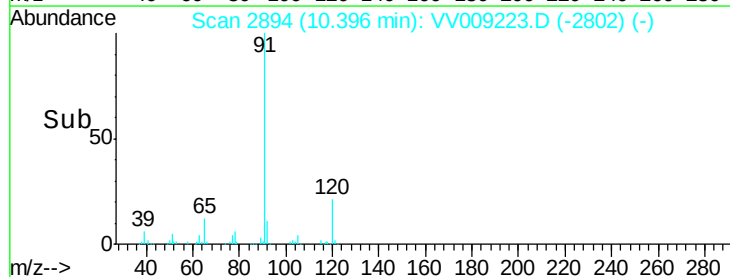
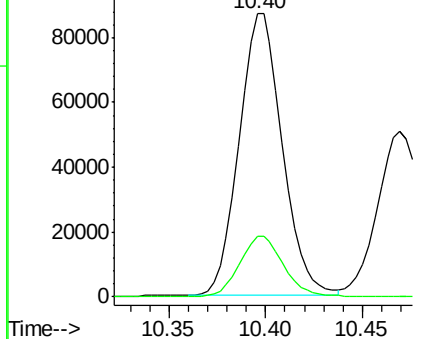
Acq: 18 Jan 2019 16:27

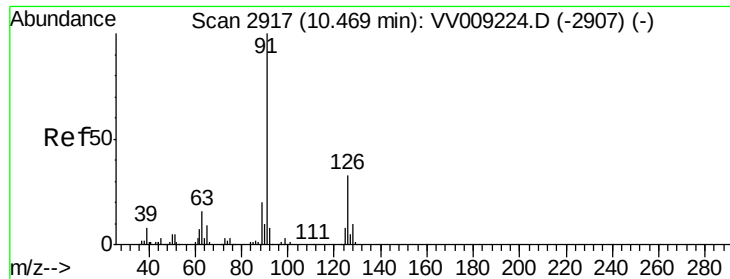
Tgt Ion:	91	Resp:	134897
Ion Ratio	Lower	Upper	
91	100		
120	22.1	11.1	33.3



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 120.00 (119.70 to 120.70): V





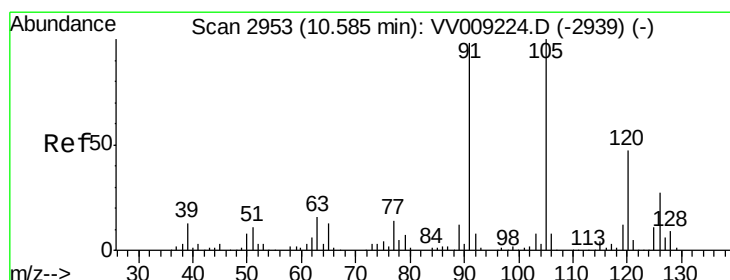
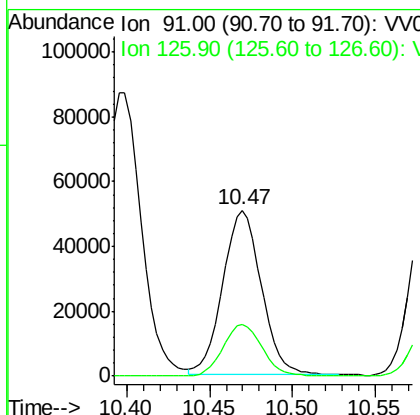
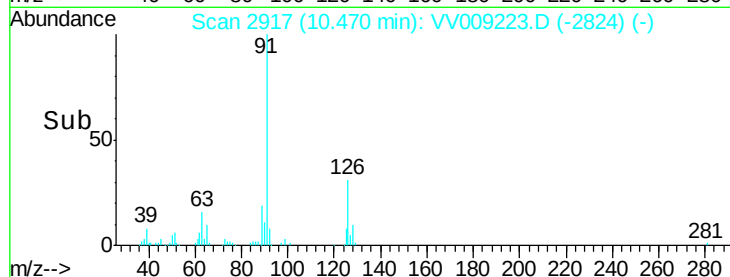
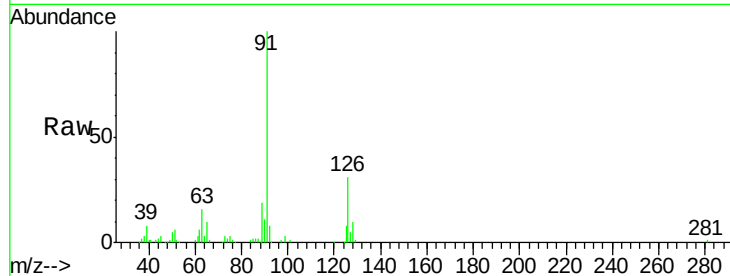
#79
 2-Chlorotoluene
 Concen: 20.745 ug/l
 RT: 10.47 min Scan# 2917
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampleID :
 VSTDIC020

Tot Ion: 91 Resp: 81735
 Ion Ratio Lower Upper
 91 100
 126 32.3 16.0 47.9

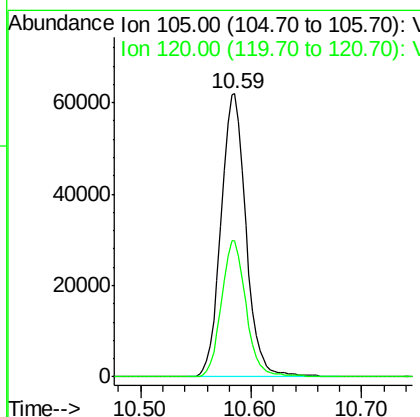
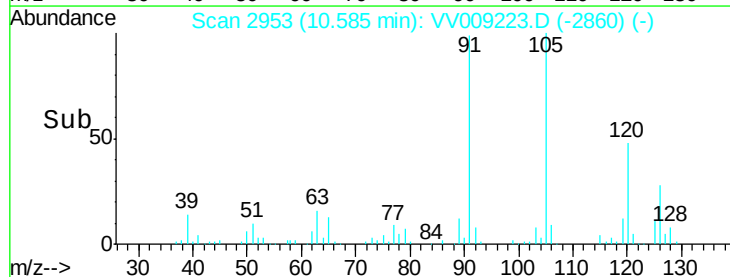
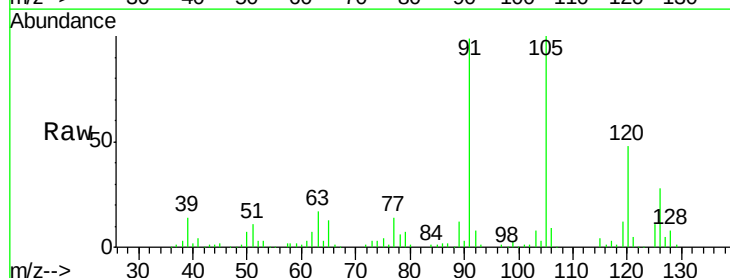
Manual Integrations
 APPROVED

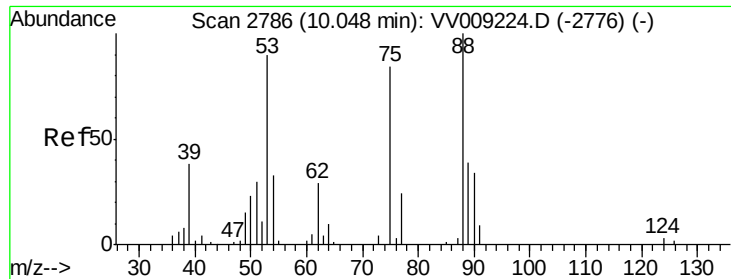
MMDadoda
 1/21/2019 10:45:21 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.758 ug/l
 RT: 10.59 min Scan# 2953
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion: 105 Resp: 97588
 Ion Ratio Lower Upper
 105 100
 120 47.4 23.8 71.5





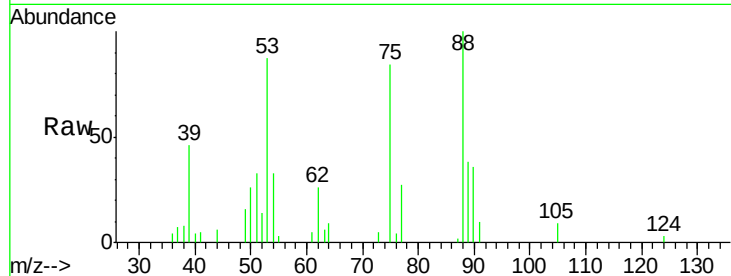
#81
trans-1,4-Dichloro-2-butene
Concen: 20.194 ug/l
RT: 10.05 min Scan# 2786
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

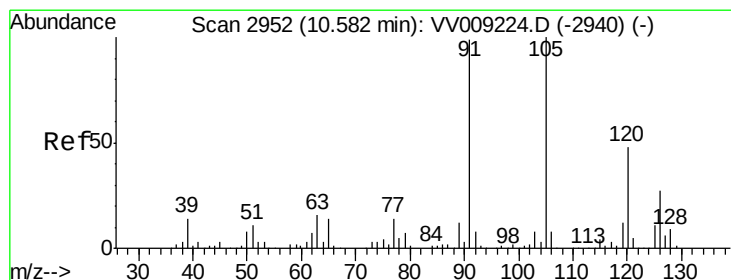
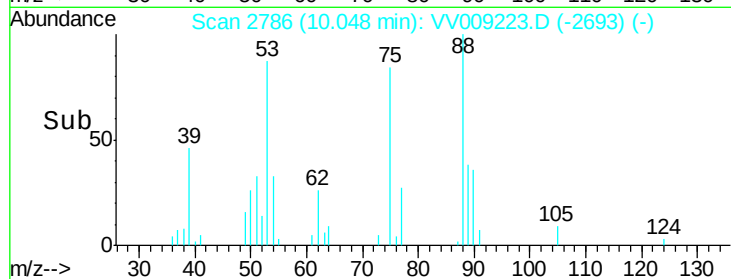
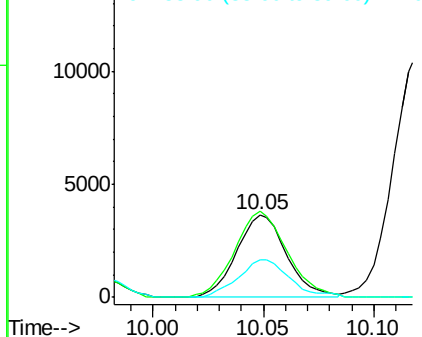
Tot Ion	Ratio	Lower	Upper
75	100		
53	109.9	85.5	128.3
89	46.6	36.3	54.5

Manual Integrations
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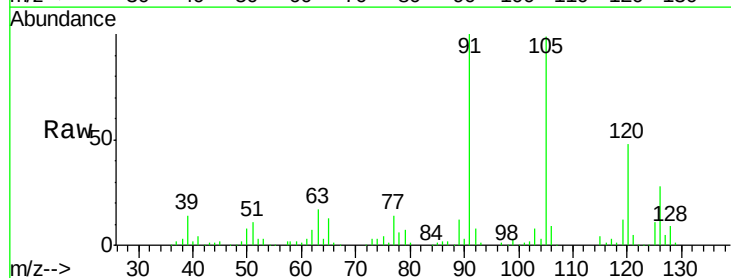


Abundance Ion 74.90 (74.60 to 75.60): VV0
Ion 53.00 (52.70 to 53.70): VV0
Ion 88.90 (88.60 to 89.60): VV0

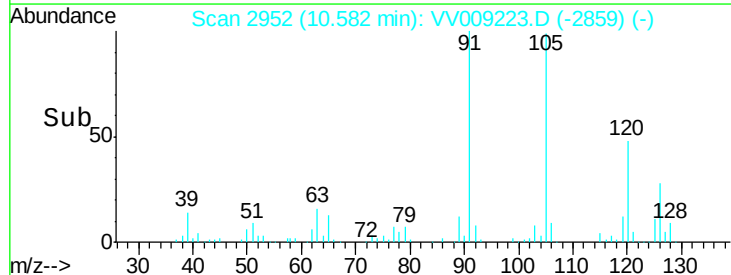
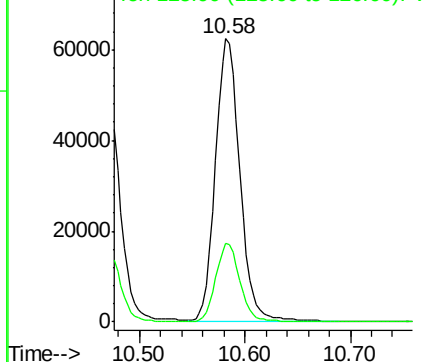


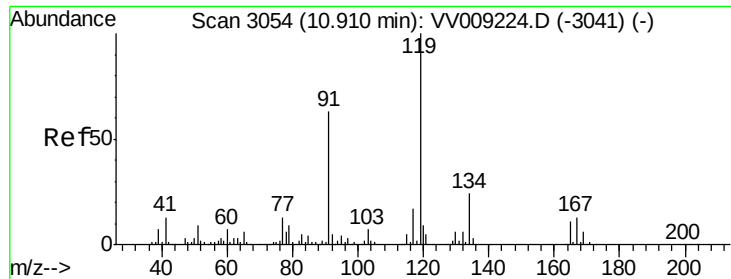
#82
4-Chlorotoluene
Concen: 21.292 ug/l
RT: 10.58 min Scan# 2952
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	26.8	13.9	41.7



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 125.90 (125.60 to 126.60): V





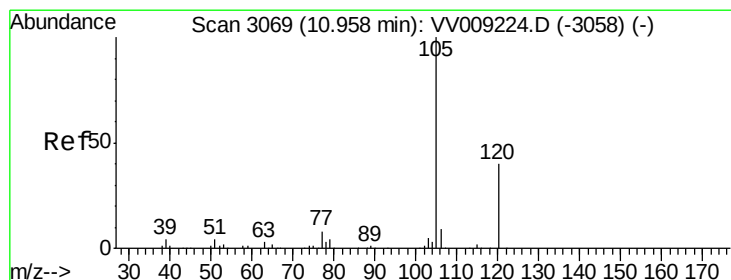
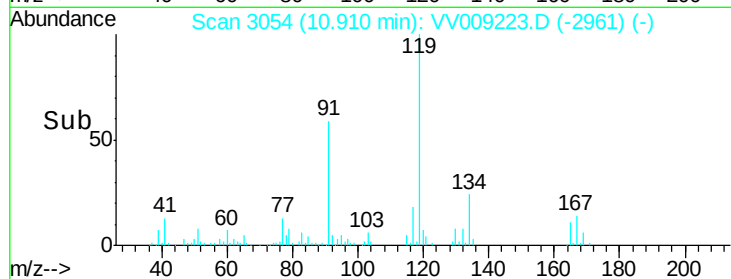
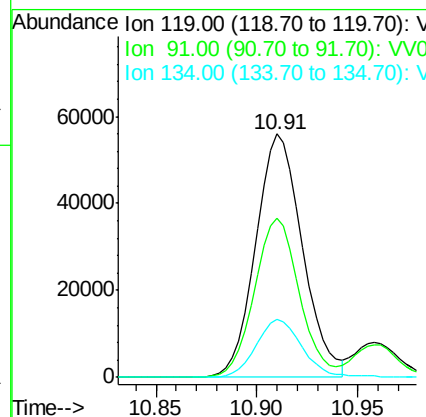
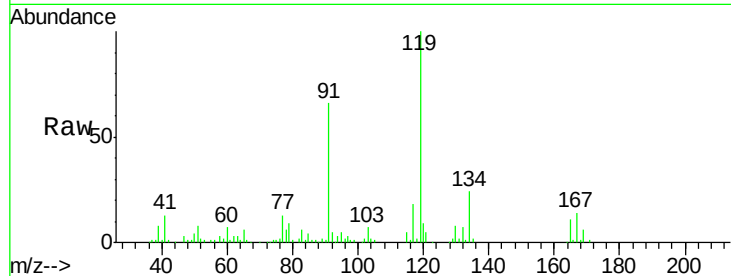
#83
 tert-Butylbenzene
 Concen: 20.372 ug/l
 RT: 10.91 min Scan# 3054
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.7	30.5	91.5
134	23.5	11.8	35.4

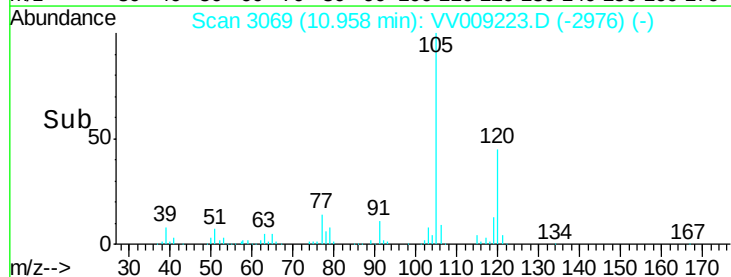
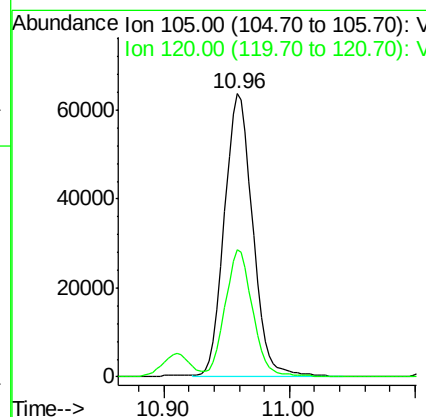
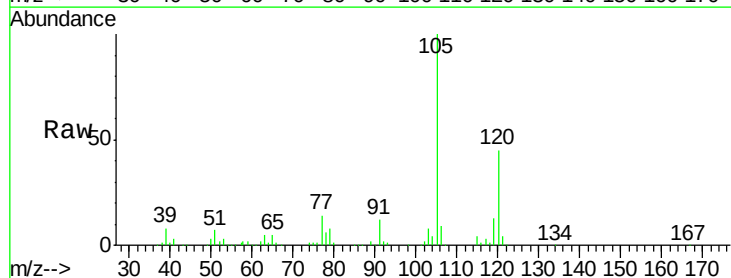
Manual Integrations
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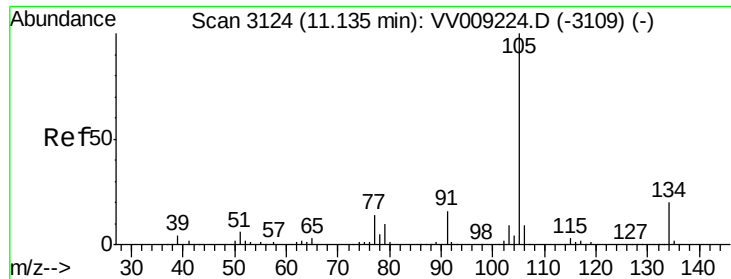
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.848 ug/l
 RT: 10.96 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.2	66.6





#85

sec-Butylbenzene

Concen: 20.383 ug/l

RT: 11.13 min Scan# 3123

Delta R.T. -0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 116681

Ion Ratio Lower Upper

105 100

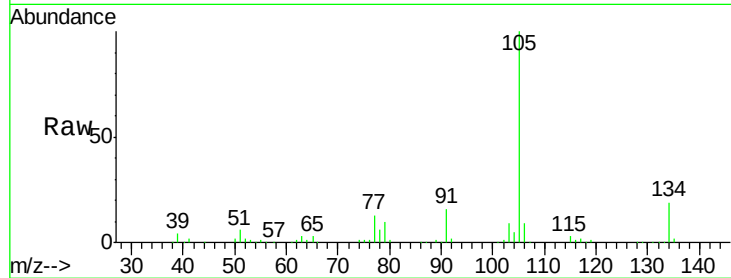
134 19.7 9.8 29.5

Manual Integrations

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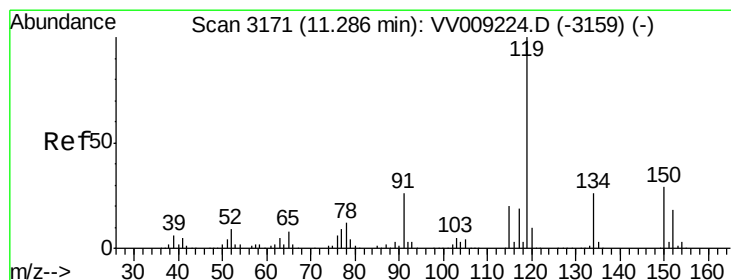
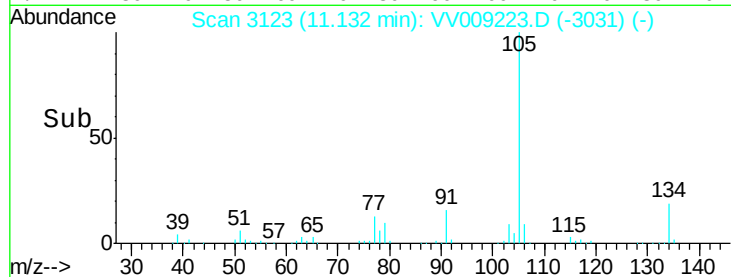
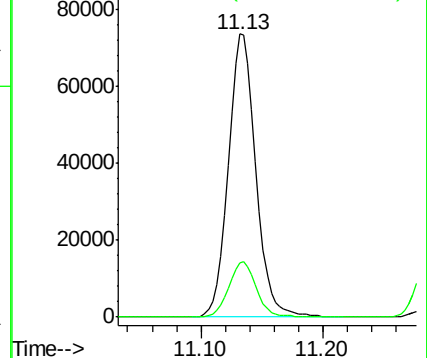
MMDadoda

1/21/2019 10:45:21 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.531 ug/l

RT: 11.29 min Scan# 3172

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

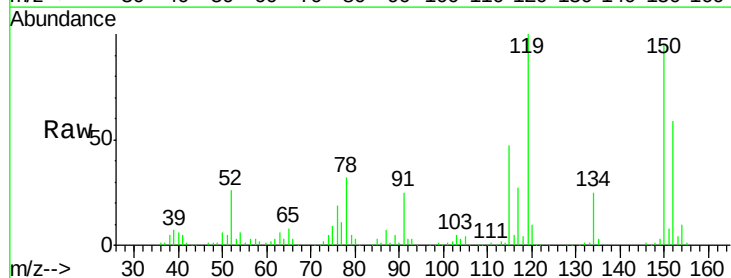
Tgt Ion:119 Resp: 104469

Ion Ratio Lower Upper

119 100

134 25.7 13.0 39.0

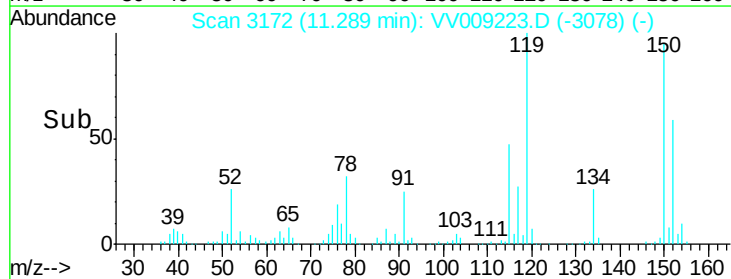
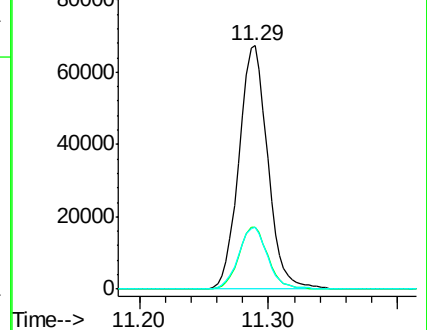
91 25.7 12.9 38.7

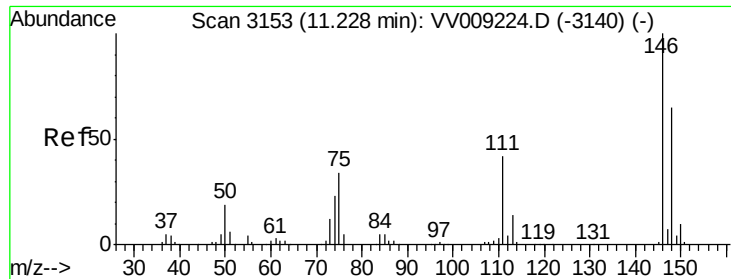


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VV0





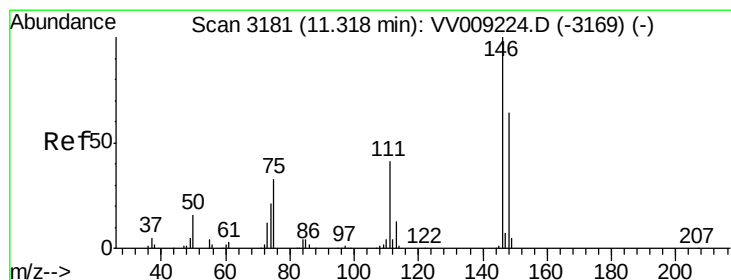
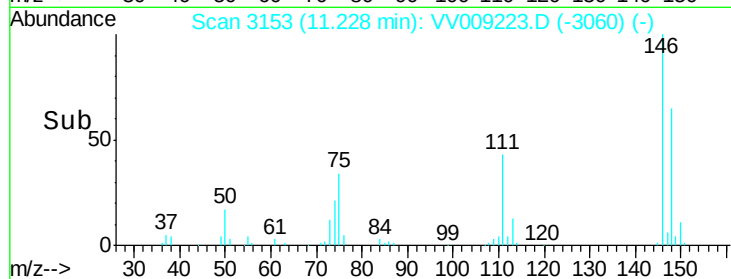
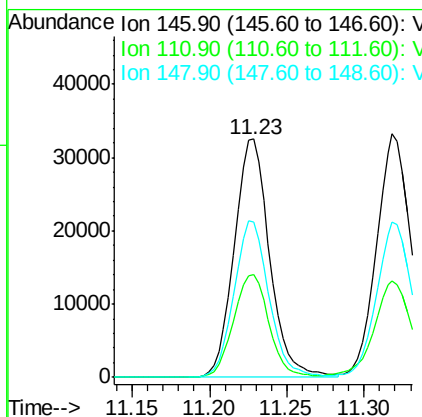
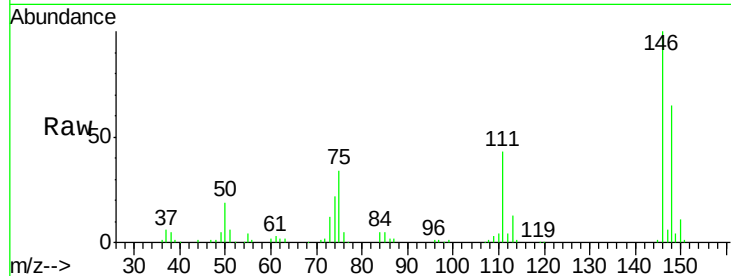
#87
 1,3-Dichlorobenzene
 Concen: 21.183 ug/l
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.1	63.1
148	64.6	32.2	96.6

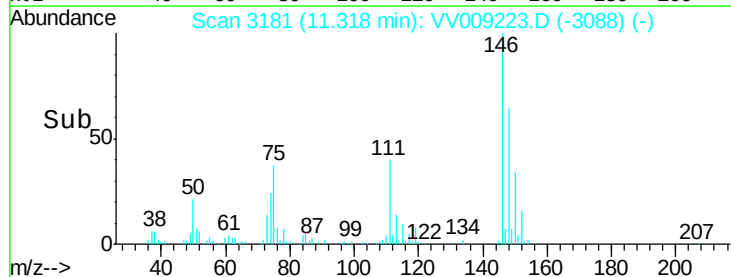
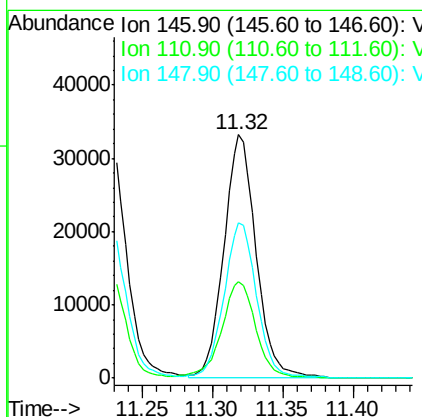
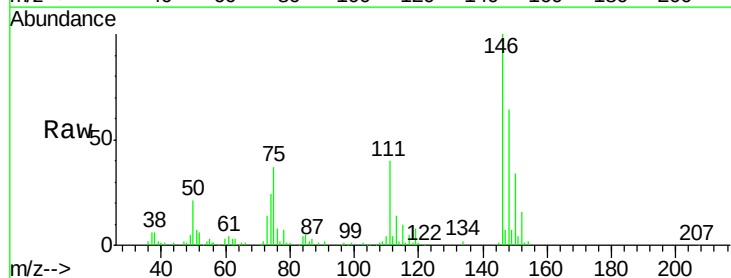
Manual Integrations
 APPROVED

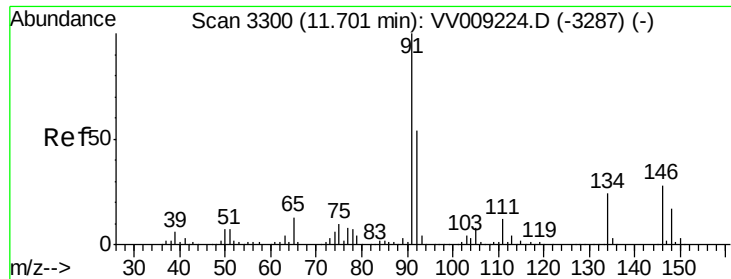
MMDadoda
 1/21/2019 10:45:21 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.543 ug/l
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.0	63.0
148	65.0	31.8	95.3





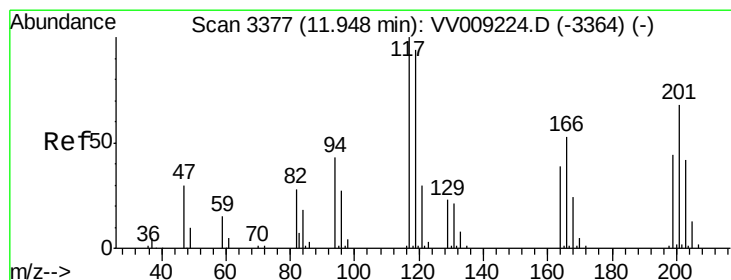
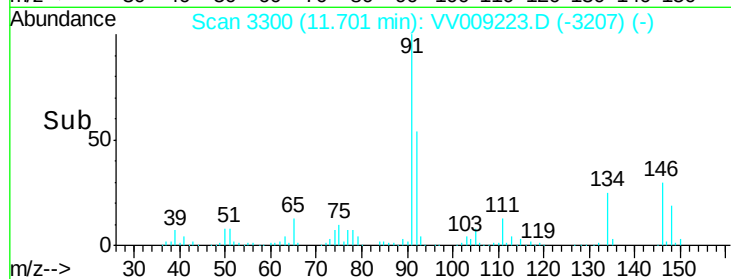
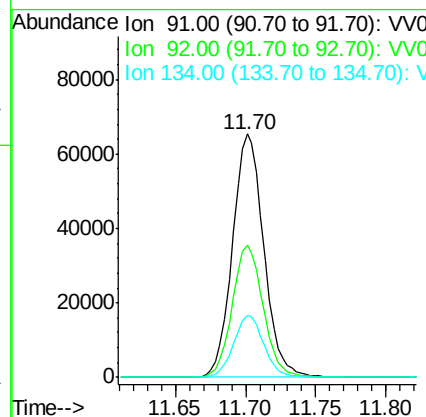
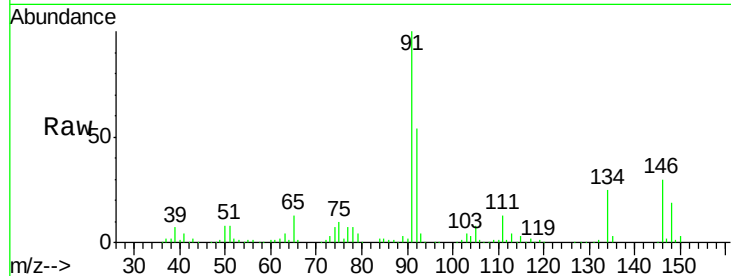
#89
n-Butylbenzene
Concen: 20.284 ug/l
RT: 11.70 min Scan# 3300
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	101311		
92	53.7	26.8	80.3	
134	24.6	12.4	37.0	

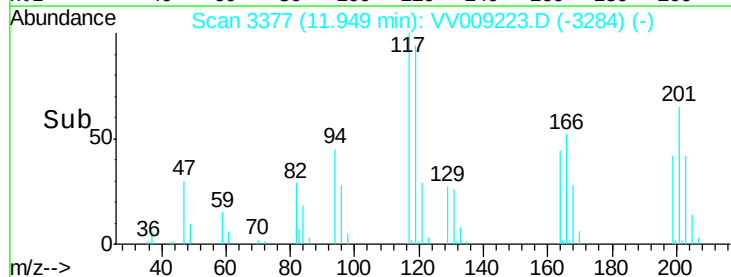
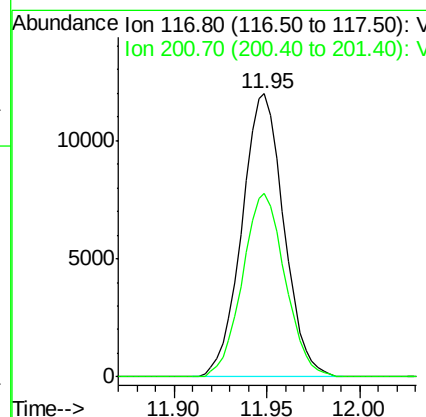
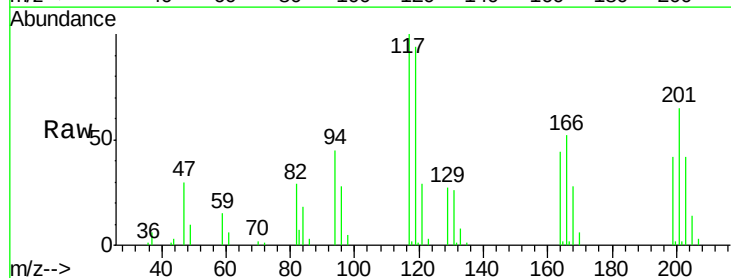
Manual Integrations
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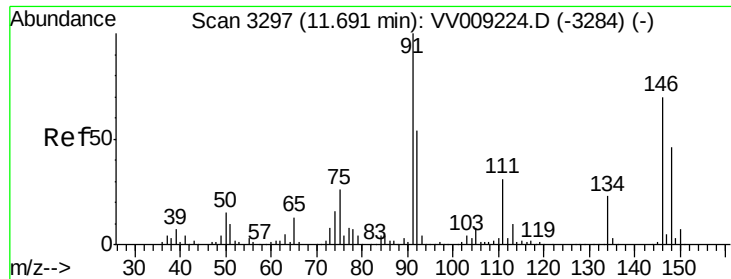
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#90
Hexachloroethane
Concen: 20.152 ug/l
RT: 11.95 min Scan# 3377
Delta R.T. 0.00 min
Lab File: VV009223.D
Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	18806		
201	65.9	34.4	103.2	





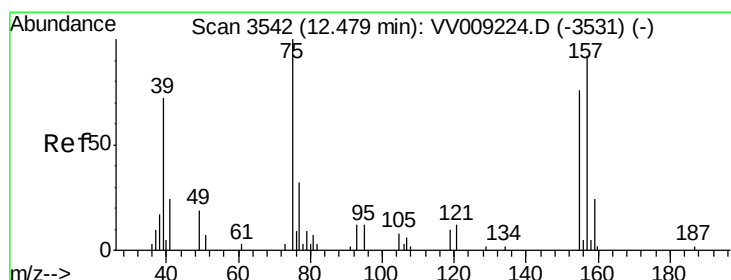
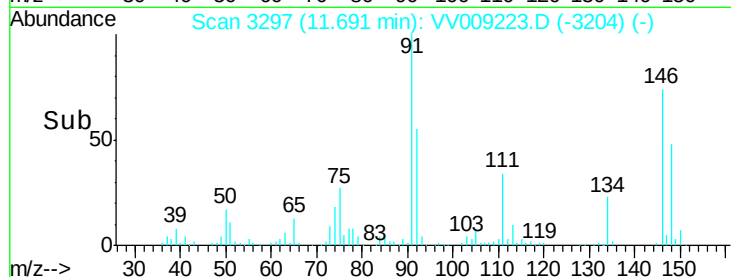
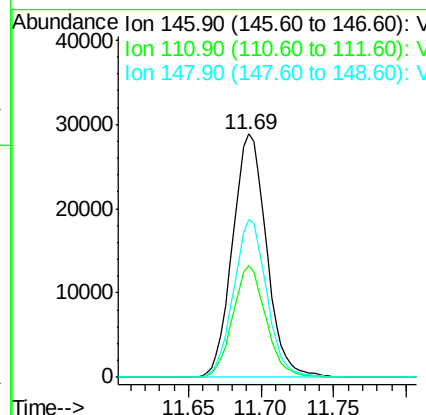
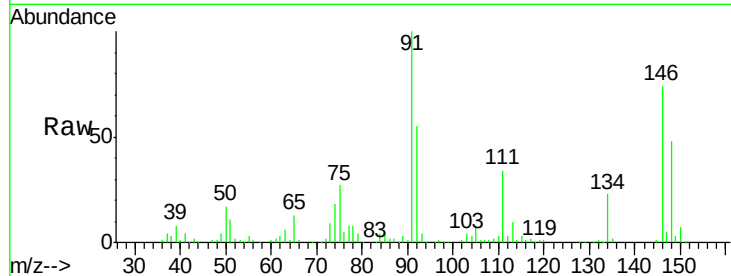
#91
 1,2-Dichlorobenzene
 Concen: 21.347 ug/l
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.9	65.7
148	63.4	31.8	95.3

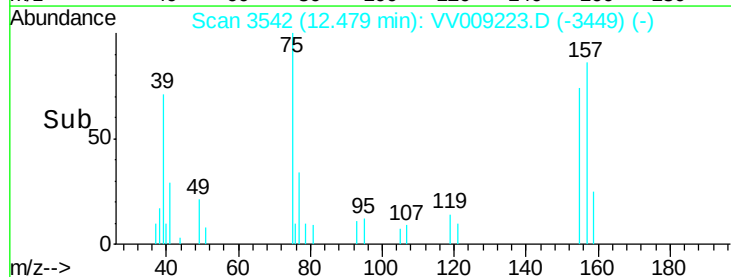
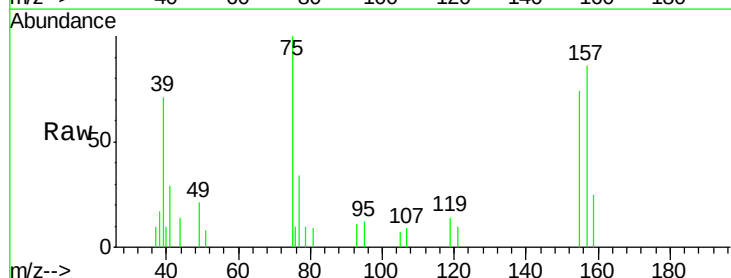
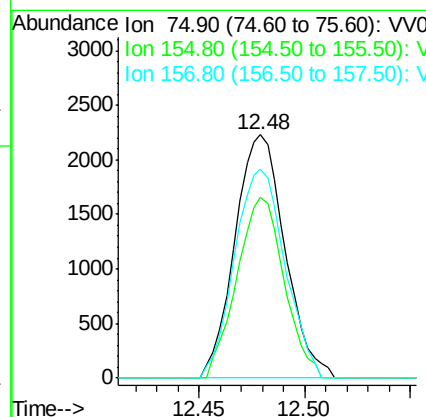
Manual Integrations
 APPROVED

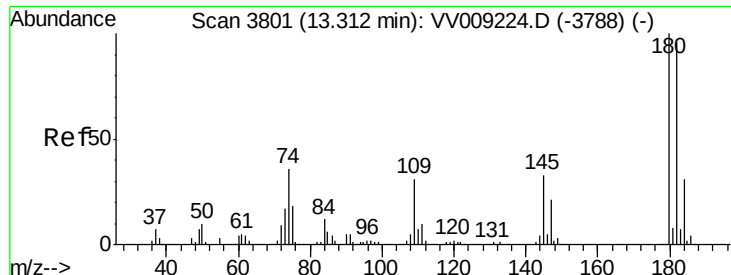
MMDadoda
 1/21/2019 10:45:21 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.326 ug/l
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	69.9	36.4	109.1
157	86.4	44.9	134.5





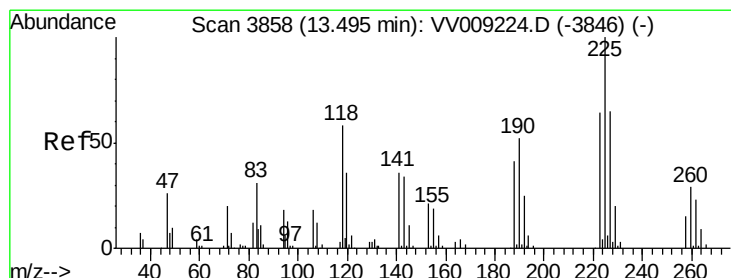
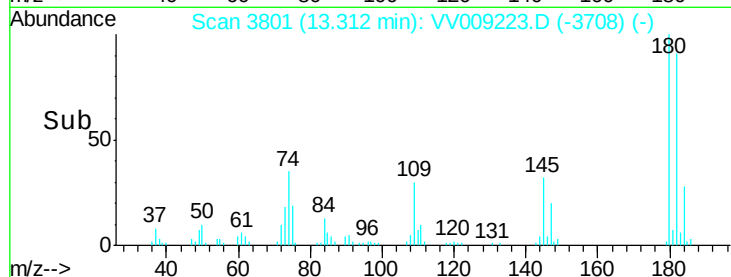
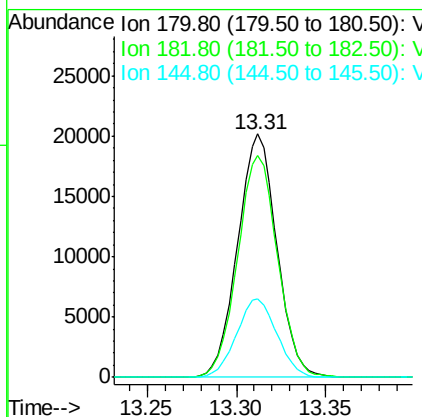
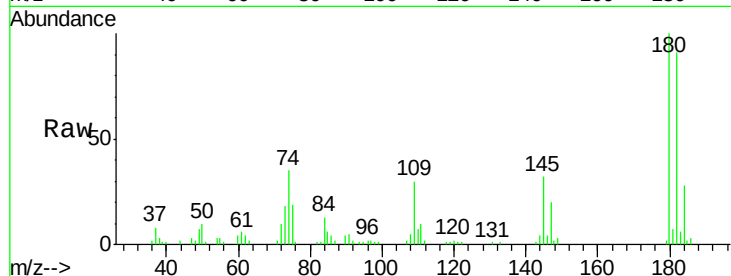
#93
 1,2,4-Trichlorobenzene
 Concen: 21.184 ug/l
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.8	143.3
145	33.1	16.7	50.0

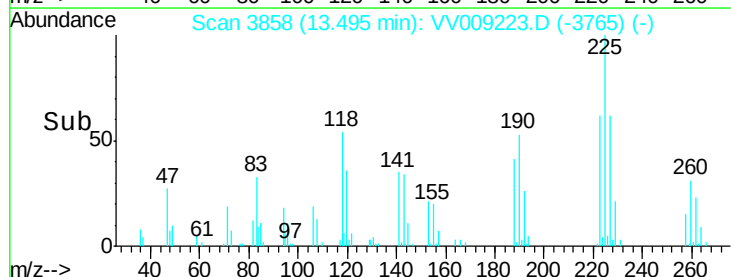
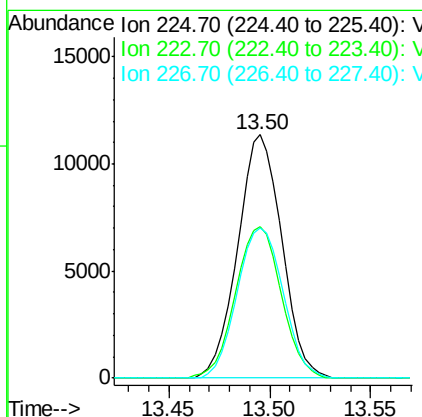
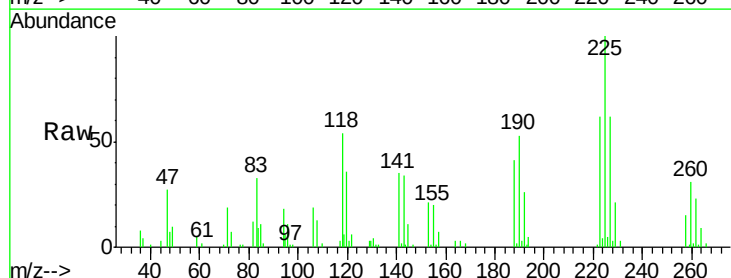
Manual Integrations
 APPROVED

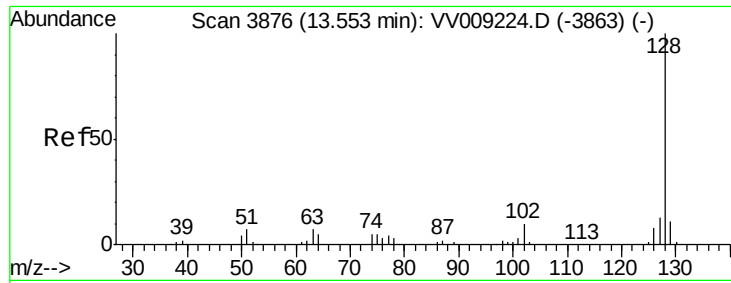
MMDadoda
 1/21/2019 10:45:21 AM



#94
 Hexachlorobutadiene
 Concen: 20.807 ug/l
 RT: 13.50 min Scan# 3858
 Delta R.T. 0.00 min
 Lab File: VV009223.D
 Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.8	31.5	94.5
227	64.7	32.1	96.3





#95

Naphthalene

Concen: 19.895 ug/l

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Instrument :

MSVOA_V

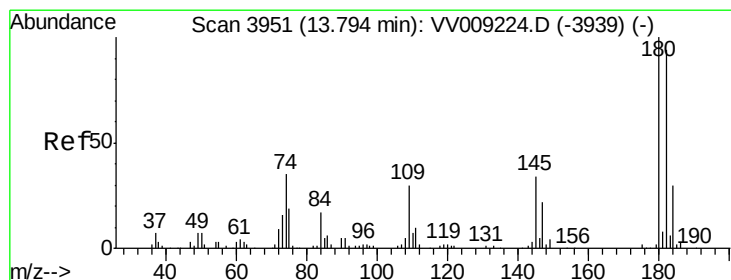
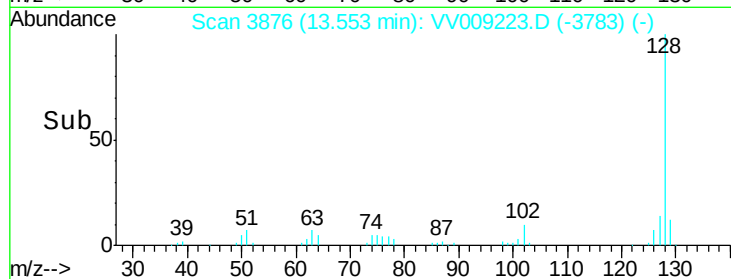
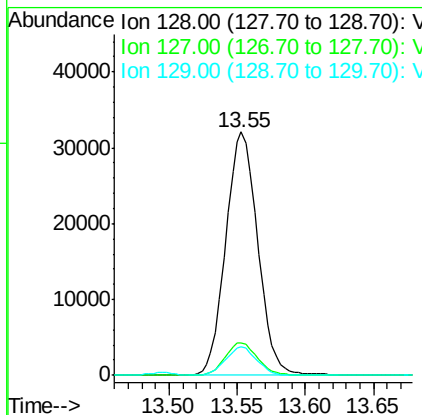
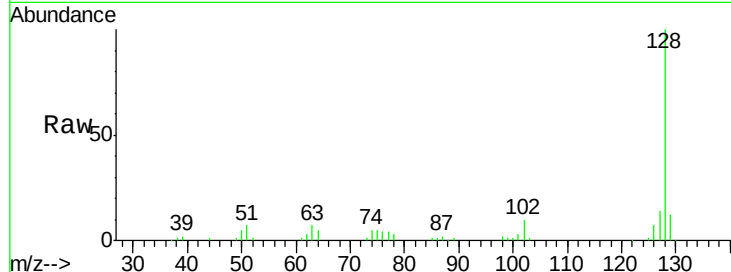
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	11.2	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:45:21 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.386 ug/l

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009223.D

Acq: 18 Jan 2019 16:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	46.7	140.1
145	36.3	17.0	51.0

