

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041919\
 Data File : VD061929.D
 Acq On : 20 Apr 2019 4:00
 Operator : VA/AP
 Sample : VD9419SBS02
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Manual Integrations
 APPROVED

MMDadoda
 4/23/2019 6:56:26 AM

Quant Time: Apr 20 05:29:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	480178	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	788089	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	687370	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	310218	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	247629	61.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.06%	
35) Dibromofluoromethane	6.94	113	337200	56.63	ug/l	0.01
Spiked Amount	50.000		Recovery	=	113.26%	
50) Toluene-d8	10.42	98	787887	55.85	ug/l	0.01
Spiked Amount	50.000		Recovery	=	111.70%	
62) 4-Bromofluorobenzene	13.56	95	316264	55.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	84964	18.129	ug/l	99
3) Chloromethane	1.75	50	79489	21.282	ug/l	94
4) Vinyl Chloride	1.85	62	68179	18.393	ug/l	98
5) Bromomethane	2.14	94	17325	18.569	ug/l	91
6) Chloroethane	2.26	64	21010	16.614	ug/l	95
7) Trichlorofluoromethane	2.53	101	109387	18.195	ug/l	95
8) Diethyl Ether	2.88	74	27547	17.484	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.16	101	95128	17.746	ug/l	97
10) Methyl Iodide	3.31	142	127720	17.390	ug/l	99
11) Tert butyl alcohol	4.07	59	27991	117.944	ug/l	97
12) 1,1-Dichloroethene	3.13	96	79770	17.701	ug/l	95
13) Acrolein	3.04	56	16212	70.563	ug/l	93
14) Allyl chloride	3.62	41	112947	18.387	ug/l	97
15) Acrylonitrile	4.20	53	79634	106.883	ug/l	100
16) Acetone	3.22	43	90345	91.087	ug/l	100
17) Carbon Disulfide	3.38	76	225352	15.476	ug/l	97
18) Methyl Acetate	3.64	43	45585	22.930	ug/l	99
19) Methyl tert-butyl Ether	4.25	73	178260	21.196	ug/l	98
20) Methylene Chloride	3.83	84	115041	20.641	ug/l	96
21) trans-1,2-Dichloroethene	4.23	96	87947	17.758	ug/l	99
22) Diisopropyl ether	5.12	45	302323	23.024	ug/l	96
23) Vinyl Acetate	5.07	43	824904	117.522	ug/l	100
24) 1,1-Dichloroethane	5.00	63	172700	21.693	ug/l	99
25) 2-Butanone	6.07	43	132376	117.231	ug/l	97
26) 2,2-Dichloropropane	6.03	77	135611	19.708	ug/l	98
27) cis-1,2-Dichloroethene	6.05	96	119058	22.176	ug/l	94
28) Bromochloromethane	6.44	49	73088	24.170	ug/l	89
29) Tetrahydrofuran	6.46	42	71453	129.904	ug/l	97
30) Chloroform	6.67	83	204764	23.060	ug/l	99
31) Cyclohexane	6.97	56	112953	18.534	ug/l	92
32) 1,1,1-Trichloroethane	6.89	97	159760	20.296	ug/l	98
36) 1,1-Dichloropropene	7.16	75	131794	20.465	ug/l	97
37) Ethyl Acetate	6.20	43	62687	22.744	ug/l	96
38) Carbon Tetrachloride	7.12	117	159752m	19.645	ug/l	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	128651	19.238	ug/l	98
40) Benzene	7.47	78	350556	22.674	ug/l	97
41) Methacrylonitrile	6.45	41	80450	24.695	ug/l #	96
42) 1,2-Dichloroethane	7.59	62	121153	22.500	ug/l	99
43) Isopropyl Acetate	9.25	43	103490	26.682	ug/l	99
44) Trichloroethene	8.55	130	131507	22.095	ug/l	93
45) 1,2-Dichloropropane	8.95	63	85901	21.330	ug/l	98
46) Dibromomethane	9.07	93	66925	23.323	ug/l	97
47) Bromodichloromethane	9.39	83	139723	21.106	ug/l	93
48) Methyl methacrylate	9.13	41	58428	25.627	ug/l #	85
49) 1,4-Dioxane	9.09	88	11498	461.394	ug/l	97
51) 4-Methyl-2-Pentanone	10.31	43	297377	125.372	ug/l	100
52) Toluene	10.52	92	210016	21.197	ug/l	92
53) t-1,3-Dichloropropene	10.92	75	131391	22.026	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	143776	20.533	ug/l	100
55) 1,1,2-Trichloroethane	11.20	97	75602	22.645	ug/l	94
56) Ethyl methacrylate	11.05	69	85474	23.327	ug/l	96
57) 1,3-Dichloropropane	11.42	76	114817	22.876	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.87	63	231206	132.659	ug/l	100
59) 2-Hexanone	11.54	43	226285	128.446	ug/l	96
60) Dibromochloromethane	11.70	129	127337	23.310	ug/l	96
61) 1,2-Dibromoethane	11.82	107	93019	22.659	ug/l	98
64) Tetrachloroethene	11.27	164	109345	21.211	ug/l	95
65) Chlorobenzene	12.41	112	279392	21.825	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	114908	21.420	ug/l	98
67) Ethyl Benzene	12.53	91	430763	21.013	ug/l	97
68) m/p-Xylenes	12.68	106	350981	45.579	ug/l	98
69) o-Xylene	13.06	106	150141	20.744	ug/l	97
70) Styrene	13.08	104	262880	21.106	ug/l	100
71) Bromoform	13.25	173	74591	23.425	ug/l #	98
73) Isopropylbenzene	13.41	105	399369	19.851	ug/l	99
74) N-amyl acetate	13.28	43	114591	21.181	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.71	83	96908	24.368	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	92271	22.649	ug/l	97
77) Bromobenzene	13.68	156	130109	22.766	ug/l	98
78) n-propylbenzene	13.78	91	503851	21.676	ug/l	97
79) 2-Chlorotoluene	13.85	91	286525	21.101	ug/l	97
80) 1,3,5-Trimethylbenzene	13.95	105	369678	23.158	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.48	75	25913	21.642	ug/l	88
82) 4-Chlorotoluene	13.96	91	349622	22.495	ug/l	94
83) tert-Butylbenzene	14.20	119	400405	21.362	ug/l	94
84) 1,2,4-Trimethylbenzene	14.24	105	362254	22.575	ug/l	94
85) sec-Butylbenzene	14.38	105	447503	23.095	ug/l	96
86) p-Isopropyltoluene	14.50	119	350477	19.331	ug/l	97
87) 1,3-Dichlorobenzene	14.47	146	217336	21.784	ug/l	95
88) 1,4-Dichlorobenzene	14.55	146	225174	22.832	ug/l	97
89) n-Butylbenzene	14.80	91	328620	20.477	ug/l	94
90) Hexachloroethane	15.02	117	105036	21.256	ug/l	88
91) 1,2-Dichlorobenzene	14.81	146	185432	22.189	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.39	75	13525	27.452	ug/l	90

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ALS Vial : 35 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Thu Apr 18 13:49:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	106488	23.200	µg/l	97
94) Hexachlorobutadiene	16.04	225	69210	20.807	µg/l	97
95) Naphthalene	16.13	128	204937	29.130	µg/l	99
96) 1,2,3-Trichlorobenzene	16.28	180	66467	25.411	µg/l	95

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

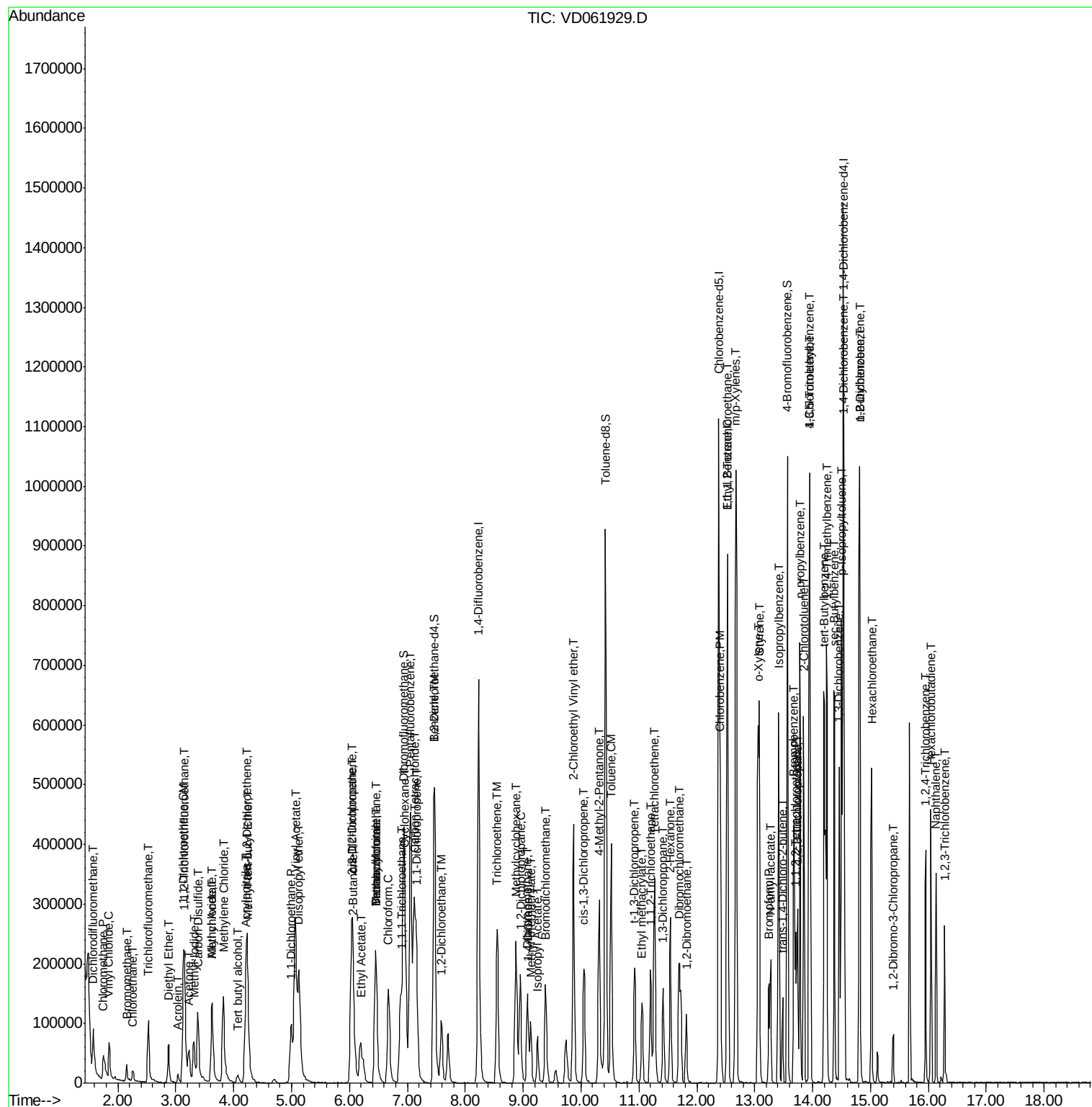
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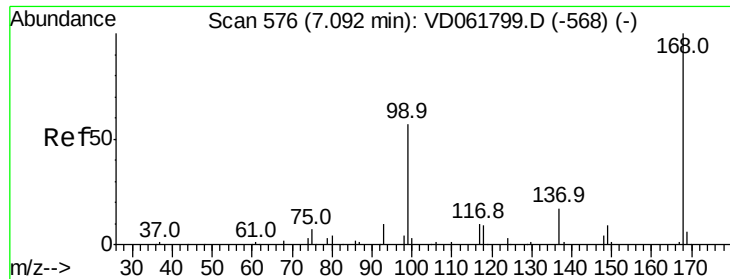
Instrument :
MSVOA_D
ClientSampleID :
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion:168 Resp: 480178

Ion Ratio Lower Upper

168 100

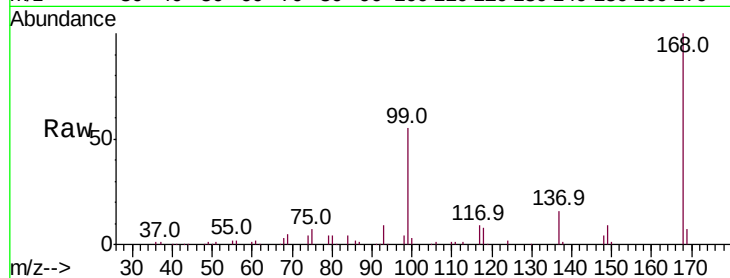
99 54.8 46.5 69.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

150000

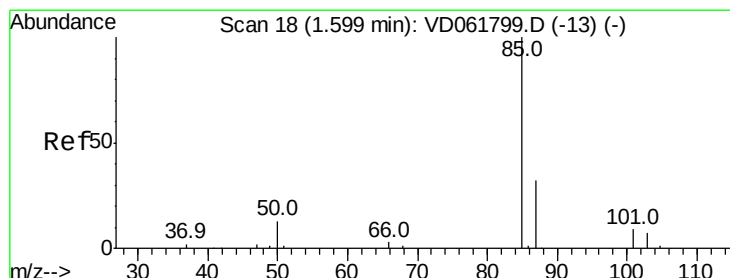
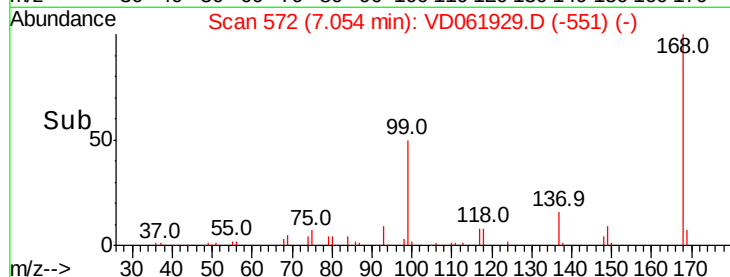
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 18.129 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD061929.D

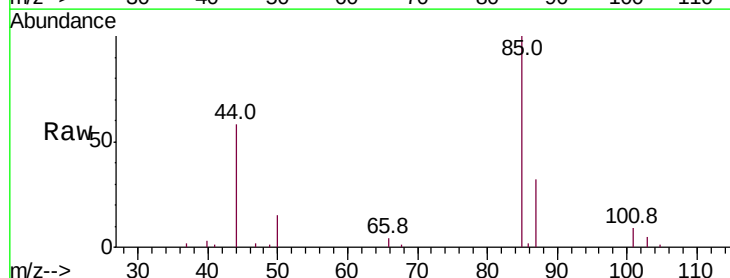
Acq: 20 Apr 2019 4:00

Tgt Ion: 85 Resp: 84964

Ion Ratio Lower Upper

85 100

87 31.9 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

40000

30000

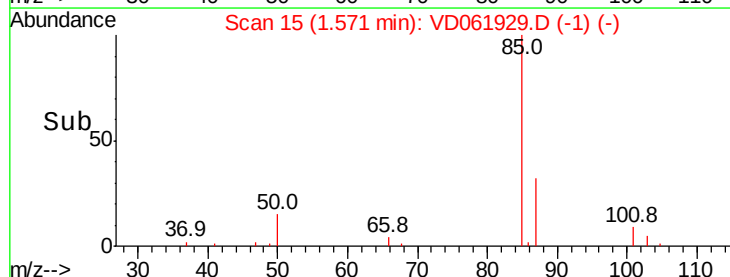
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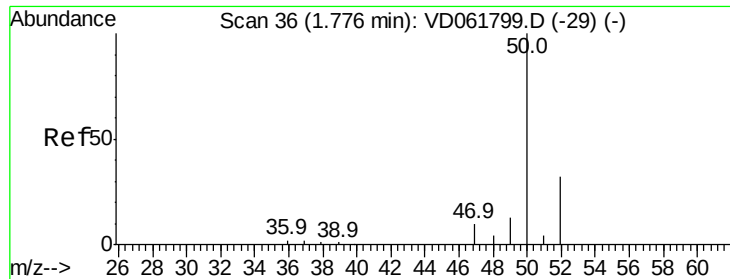
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0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 21.282 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 50 Resp: 79489

Ion Ratio Lower Upper

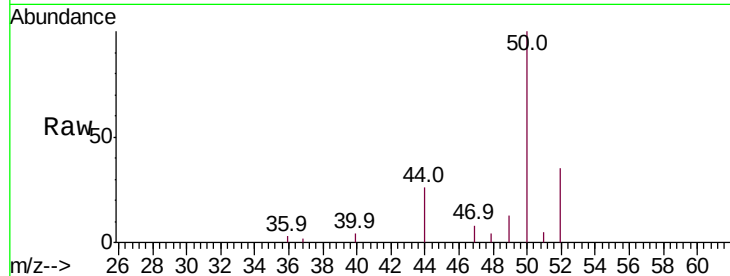
50 100

52 34.8 25.2 37.8

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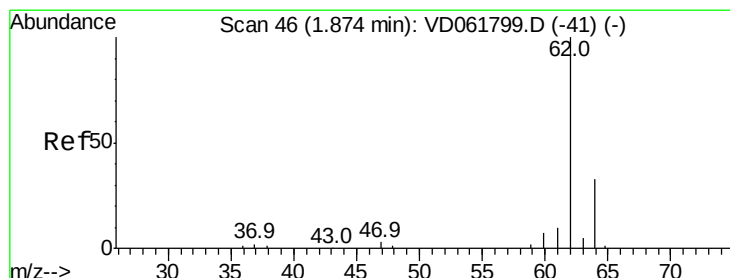
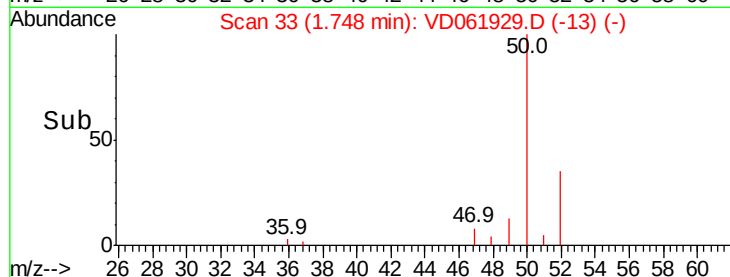
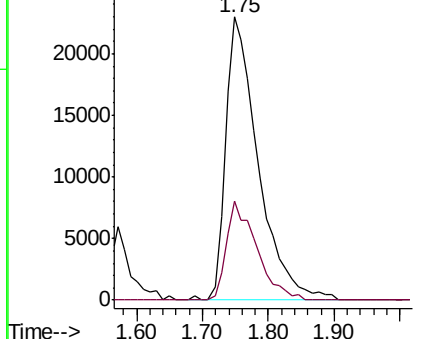
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 18.393 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD061929.D

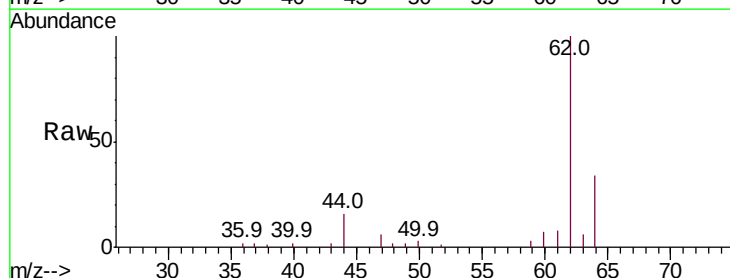
Acq: 20 Apr 2019 4:00

Tgt Ion: 62 Resp: 68179

Ion Ratio Lower Upper

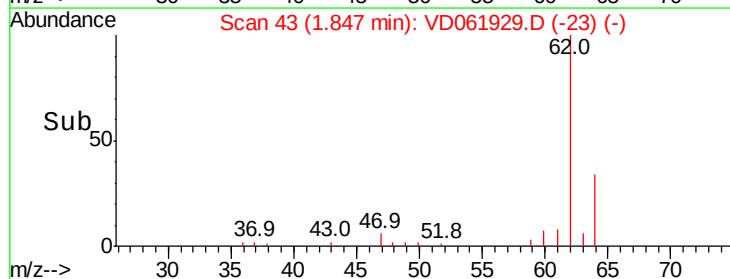
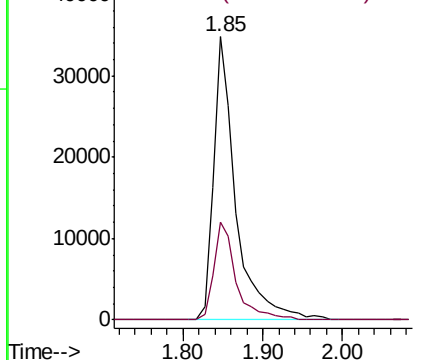
62 100

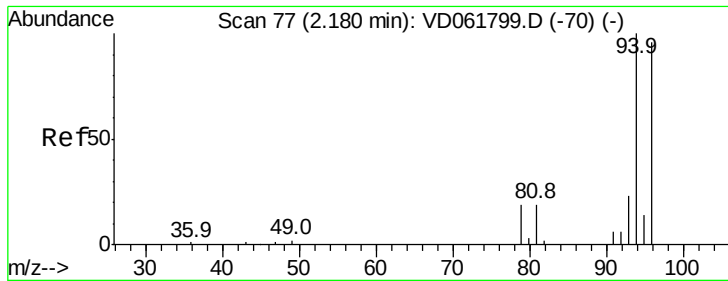
64 34.4 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 18.569 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 94 Resp: 17325

Ion Ratio Lower Upper

94 100

96 85.8 76.6 115.0

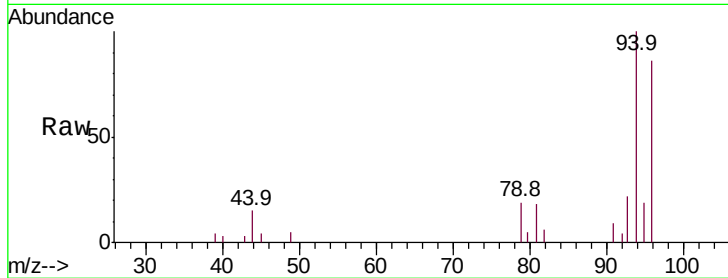
93 22.4 18.5 27.7

Manual Integrations

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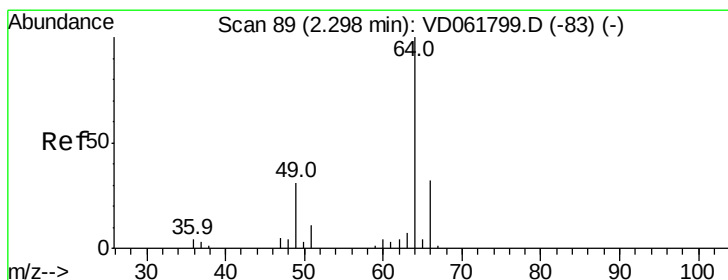
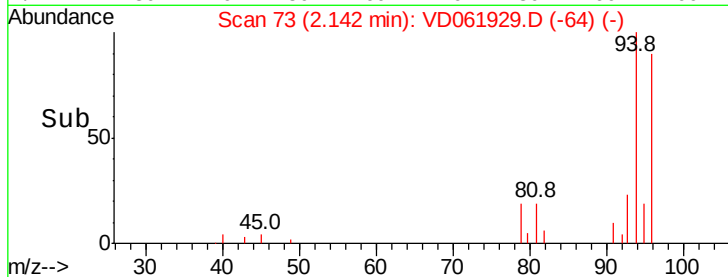
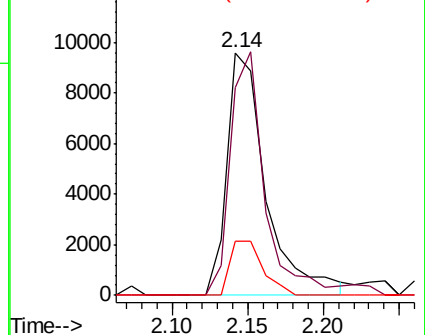
4/23/2019 6:56:26 AM



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 16.614 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VD061929.D

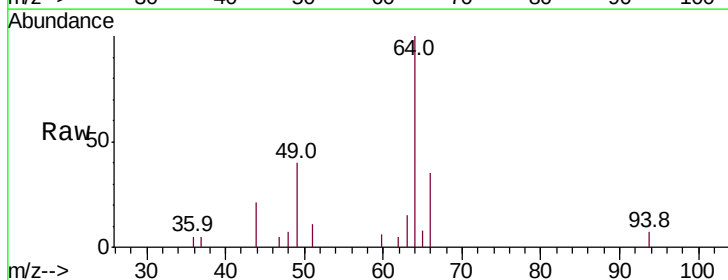
Acq: 20 Apr 2019 4:00

Tgt Ion: 64 Resp: 21010

Ion Ratio Lower Upper

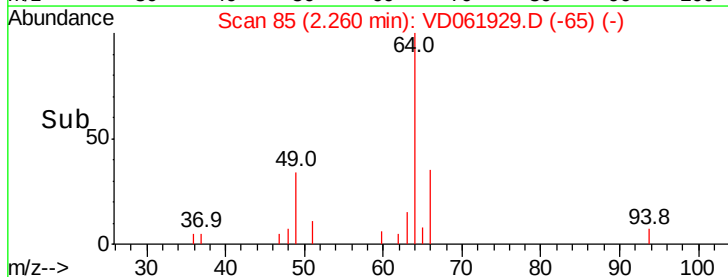
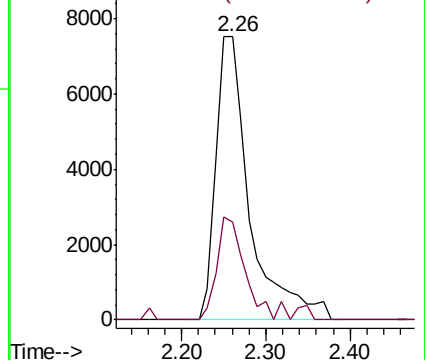
64 100

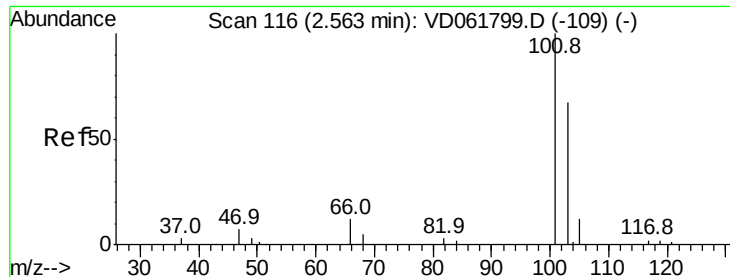
66 34.6 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

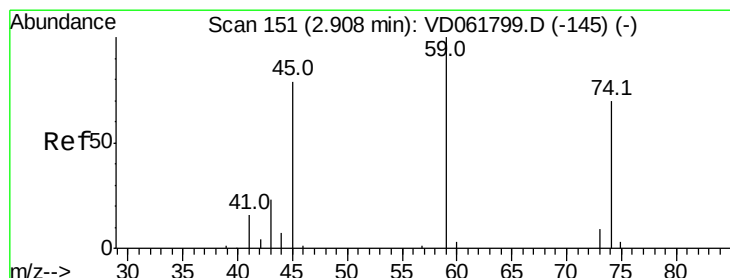
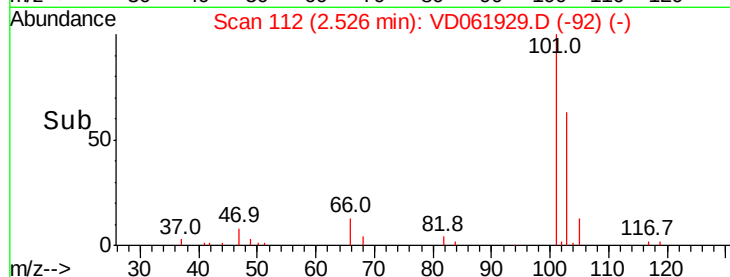
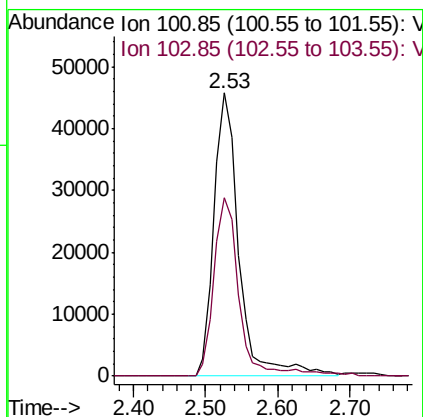
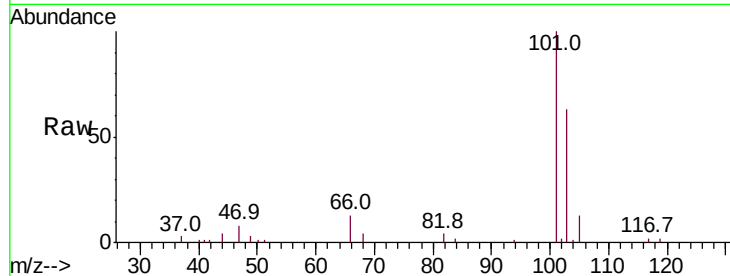
Trichlorofluoromethane
 Concen: 18.195 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. -0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
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 VD9419SBS02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	109387		
103	62.9	53.6	80.4	

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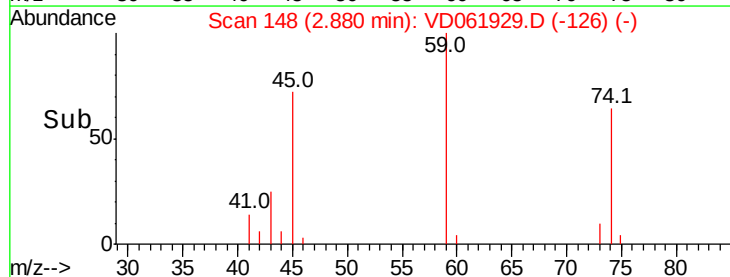
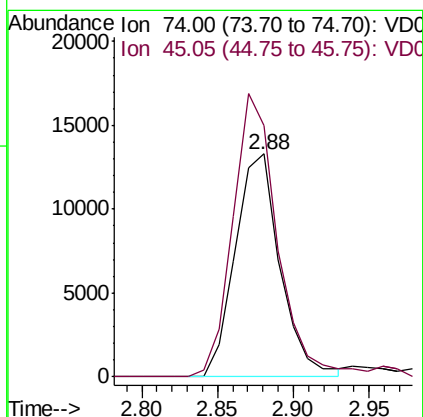
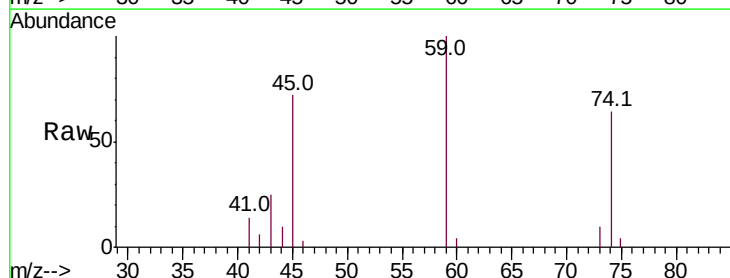
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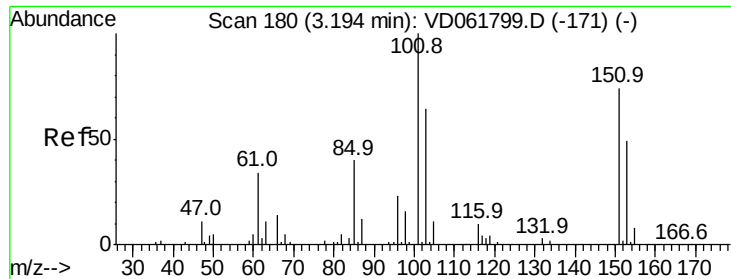


#8

Diethyl Ether
 Concen: 17.484 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	27547		
45	112.7	56.9	170.7	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.746 ug/l

RT: 3.16 min Scan# 176

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

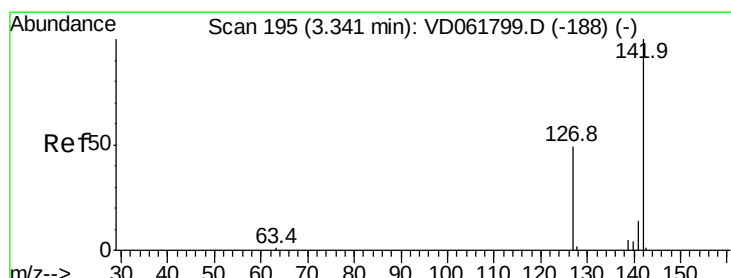
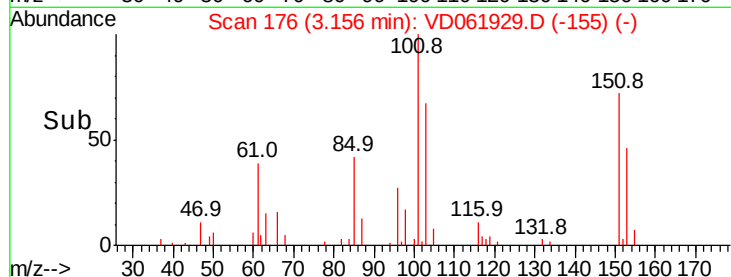
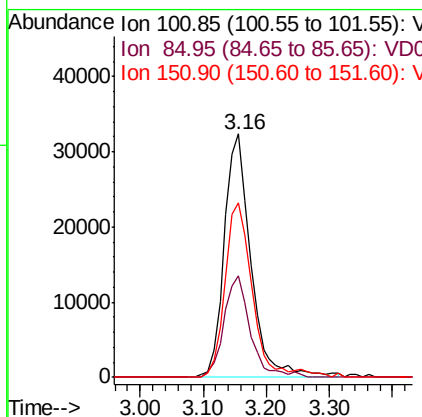
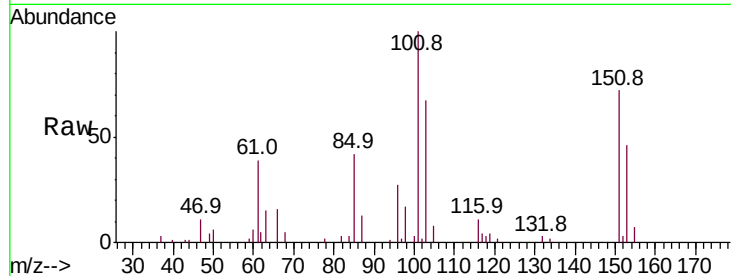
ClientSampleId :

VD9419SBS02

Tot Ion:	101	Resp:	95128
Ion Ratio	Lower	Upper	
101	100		
85	41.8	32.4	48.6
151	71.6	59.4	89.0

Manual Integrations
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4/23/2019 6:56:26 AM



#10

Methyl Iodide

Concen: 17.390 ug/l

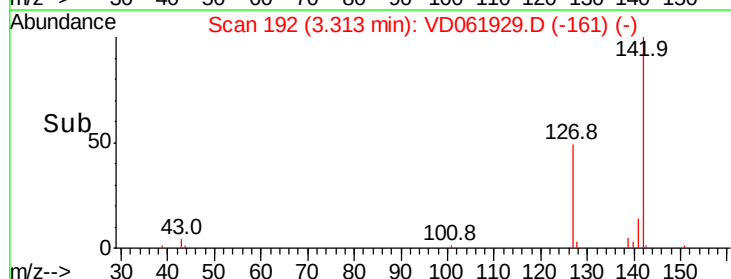
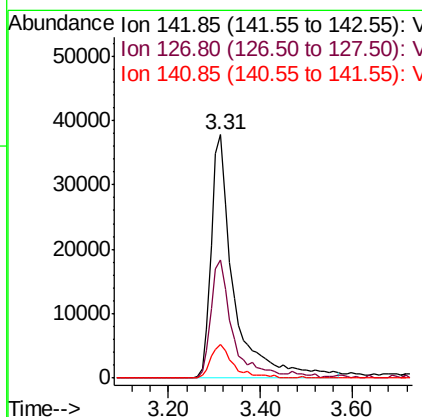
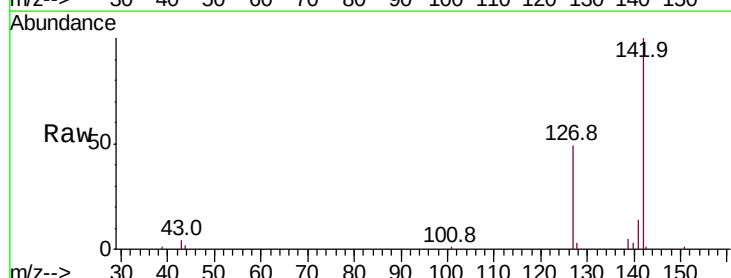
RT: 3.31 min Scan# 192

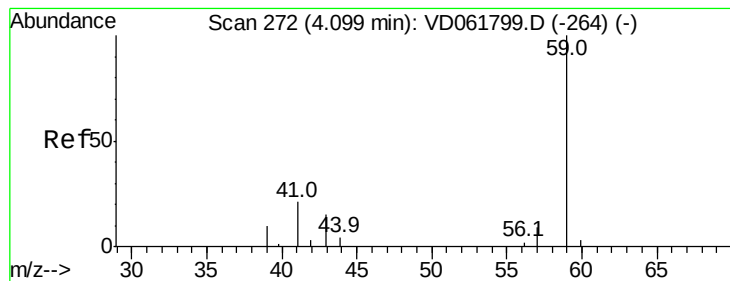
Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion:	142	Resp:	127720
Ion Ratio	Lower	Upper	
142	100		
127	48.7	38.8	58.2
141	13.7	11.4	17.0





#11

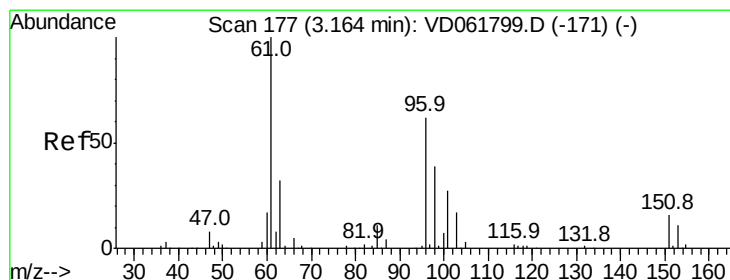
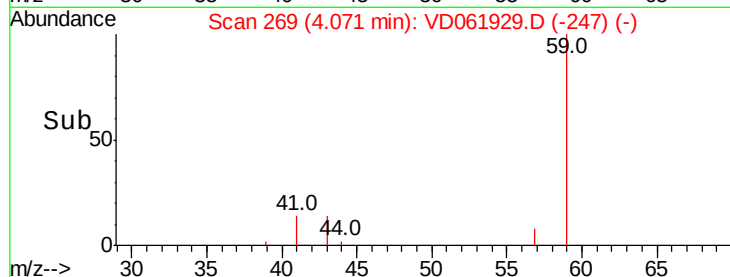
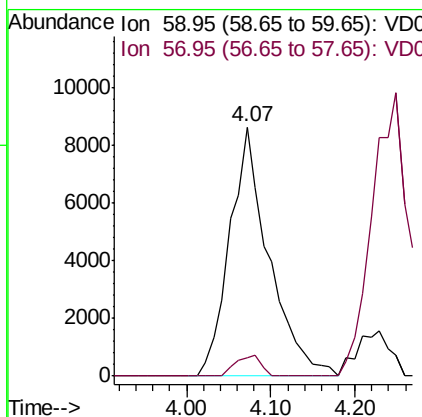
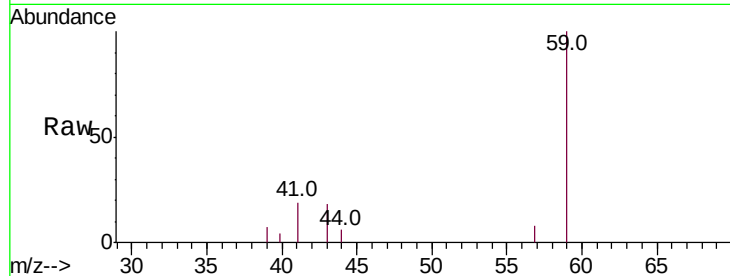
Tert butyl alcohol
 Concen: 117.944 ug/l
 RT: 4.07 min Scan# 269
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.6	6.9	10.3

Manual Integrations
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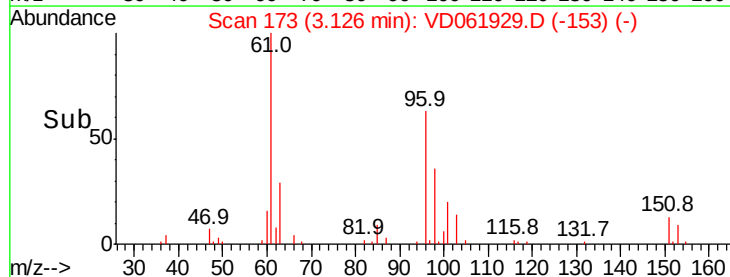
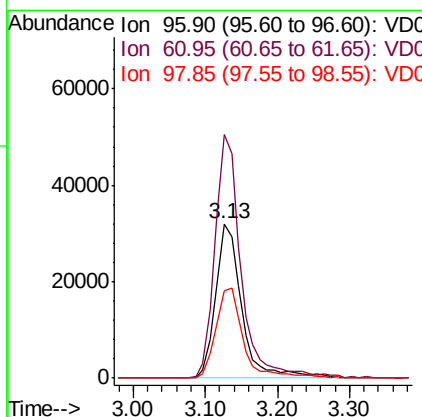
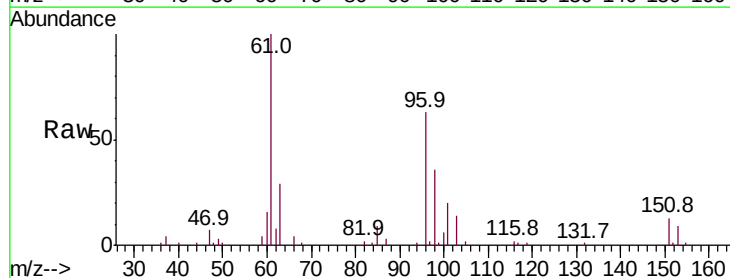
MMDadoda
 4/23/2019 6:56:26 AM

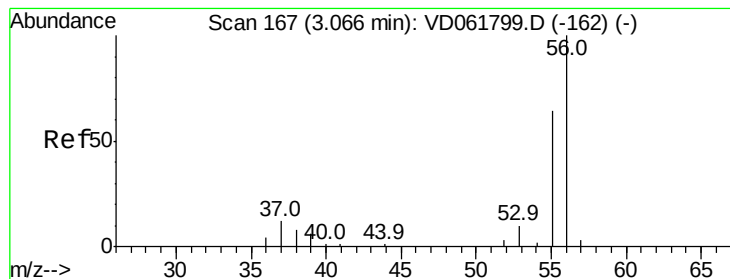


#12

1,1-Dichloroethene
 Concen: 17.701 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. -0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.6	129.8	194.8
98	56.9	51.2	76.8





#13

Acrolein

Concen: 70.563 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 56 Resp: 16212

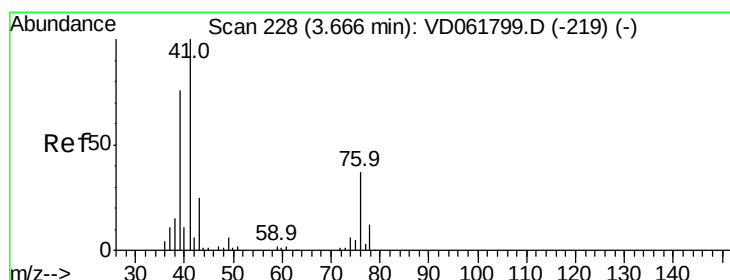
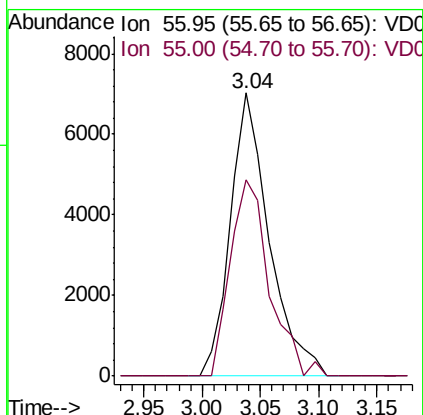
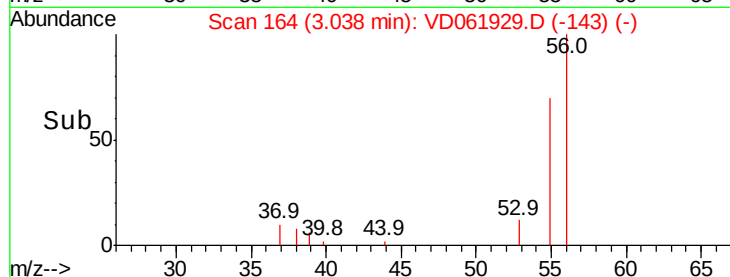
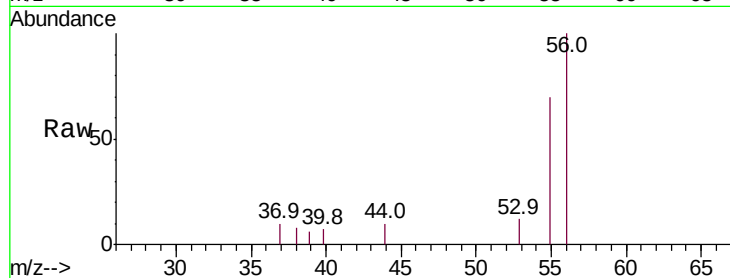
Ion Ratio Lower Upper

56 100

55 69.6 51.4 77.2

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:56:26 AM



#14

Allyl chloride

Concen: 18.387 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

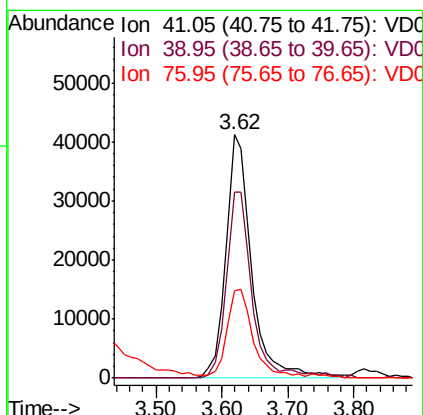
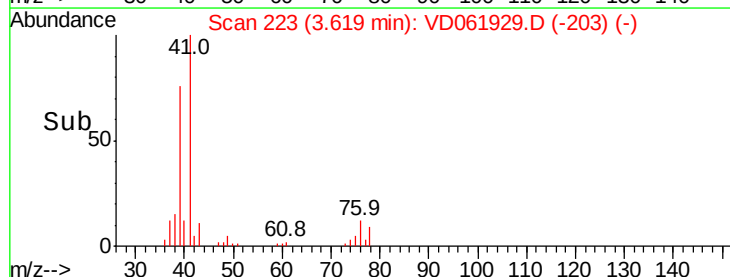
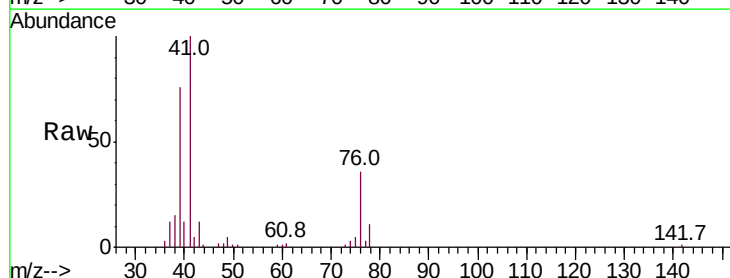
Tgt Ion: 41 Resp: 112947

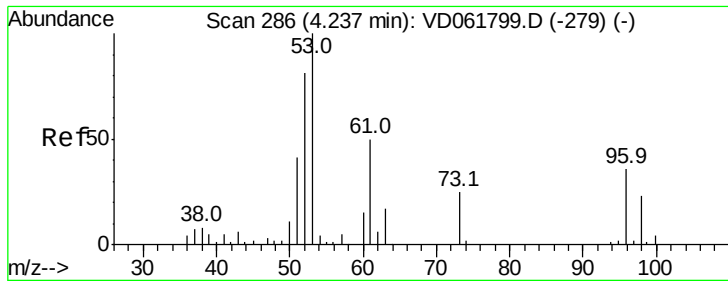
Ion Ratio Lower Upper

41 100

39 76.3 60.5 90.7

76 36.0 31.8 47.8





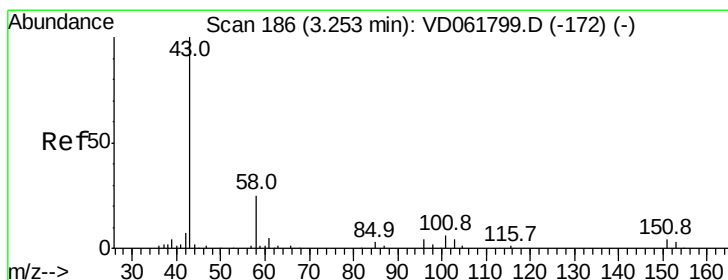
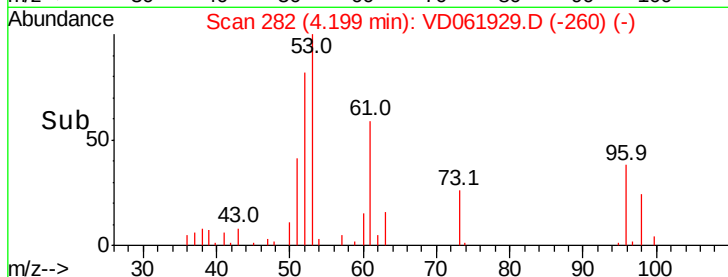
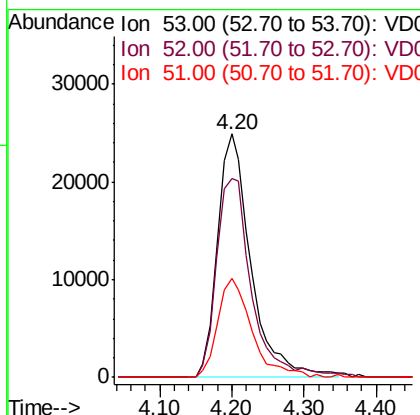
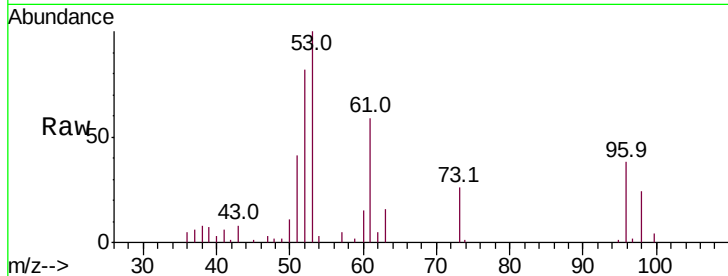
#15
 Acrylonitrile
 Concen: 106.883 ug/l
 RT: 4.20 min Scan# 282
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.0	97.4
51	40.7	32.6	48.8

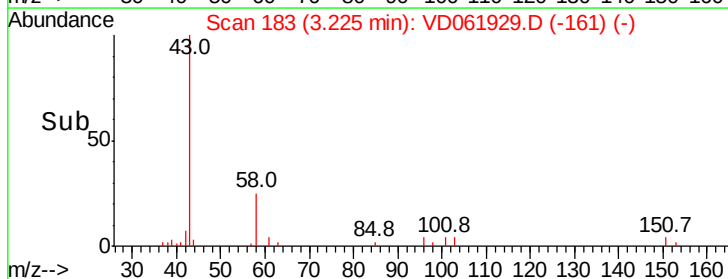
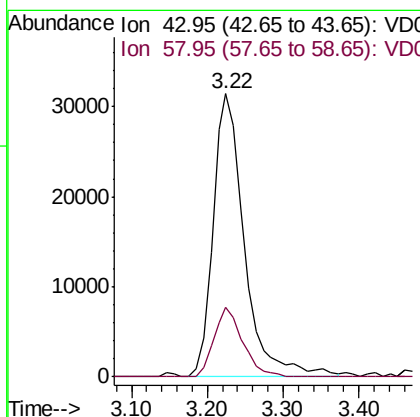
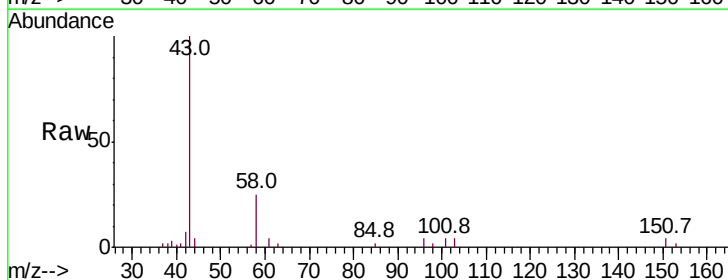
Manual Integrations
 APPROVED

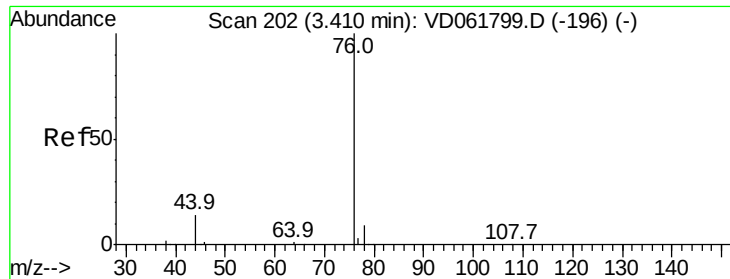
MMDadoda
 4/23/2019 6:56:26 AM



#16
 Acetone
 Concen: 91.087 ug/l
 RT: 3.22 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.8	19.9	29.9





#17

Carbon Disulfide

Concen: 15.476 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 76 Resp: 225352

Ion Ratio Lower Upper

76 100

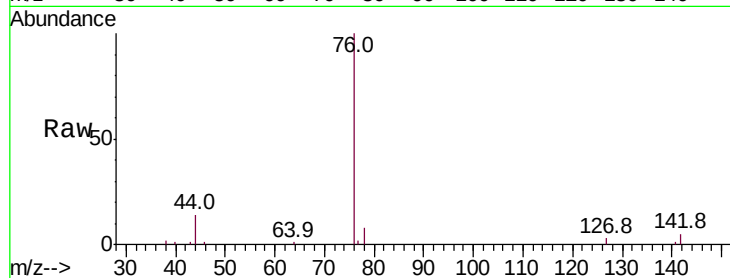
78 8.1 7.2 10.8

Manual Integrations

APPROVED

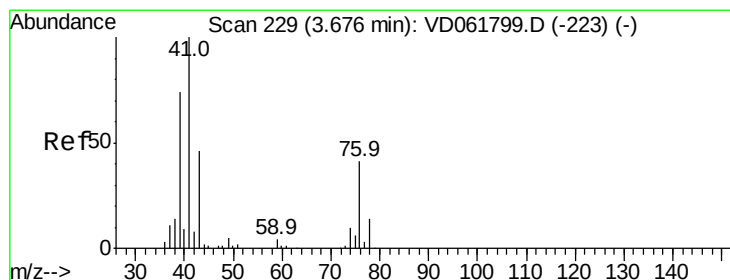
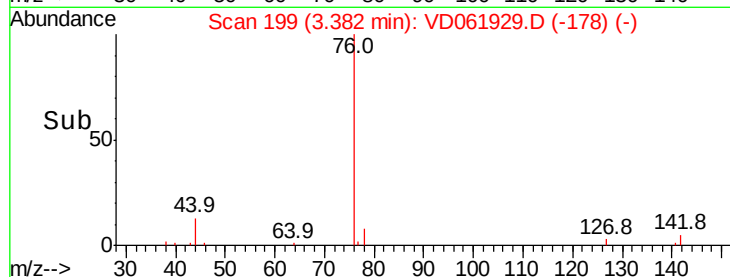
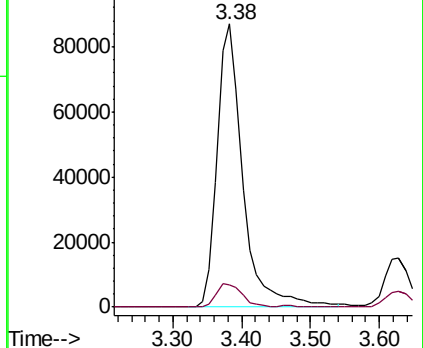
MMDadoda

4/23/2019 6:56:26 AM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 22.930 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.00 min

Lab File: VD061929.D

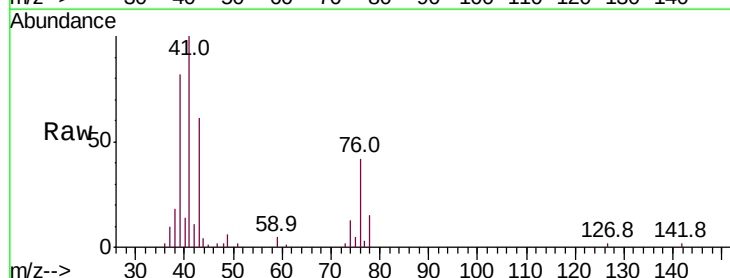
Acq: 20 Apr 2019 4:00

Tgt Ion: 43 Resp: 45585

Ion Ratio Lower Upper

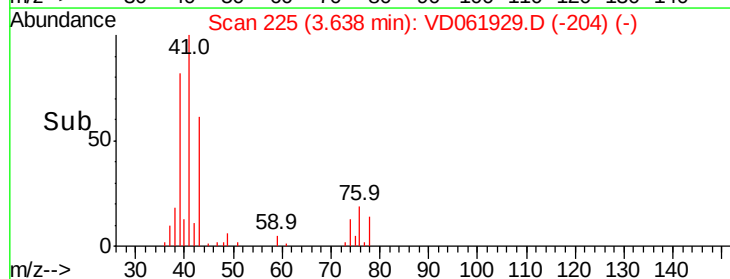
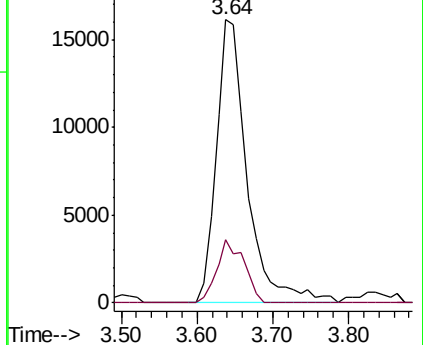
43 100

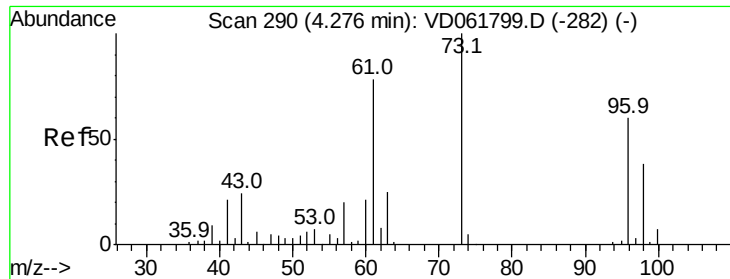
74 22.2 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





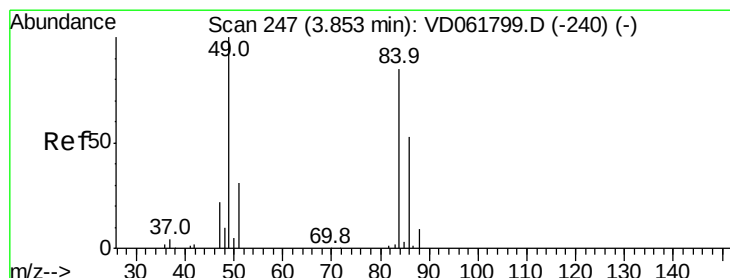
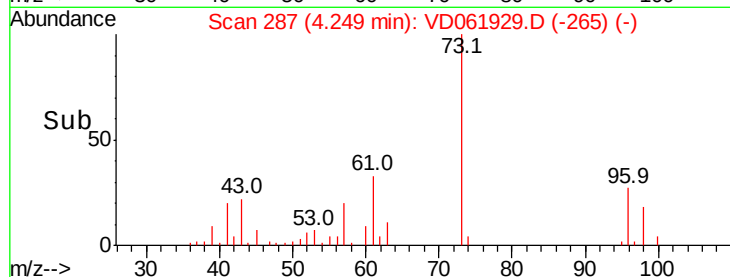
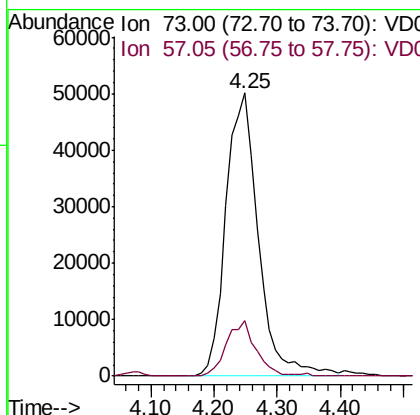
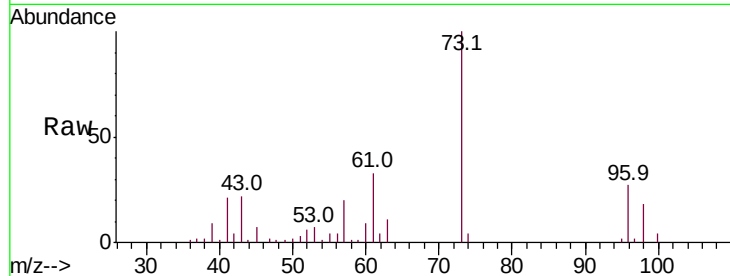
#19
Methyl tert-butyl Ether
Concen: 21.196 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion: 73 Resp: 178260
Ion Ratio Lower Upper
73 100
57 19.6 16.3 24.5

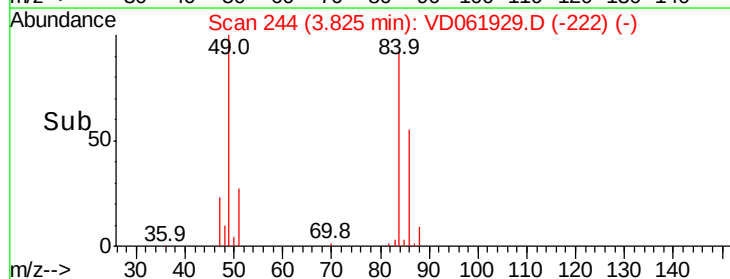
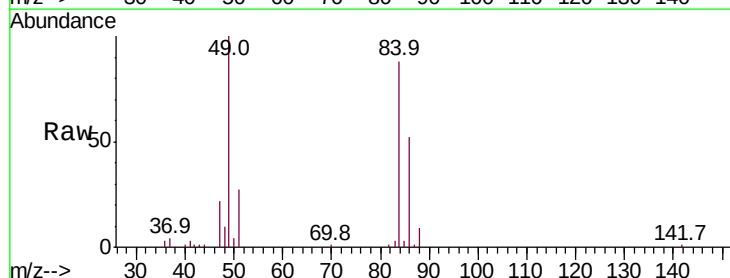
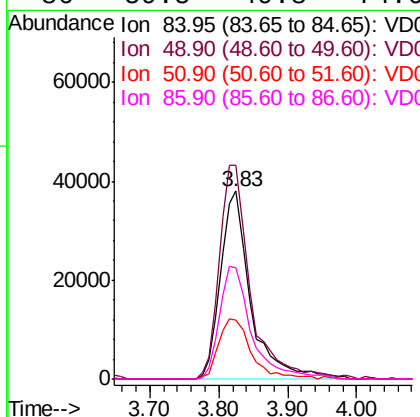
Manual Integrations
APPROVED

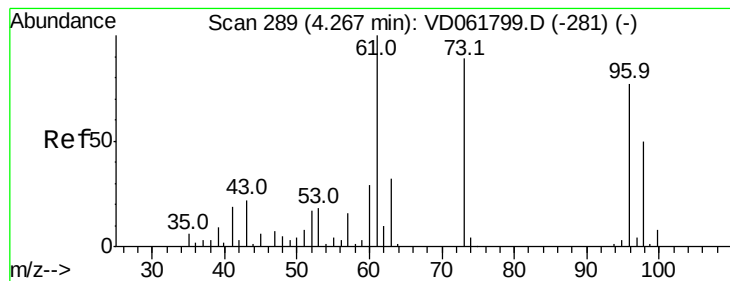
MMDadoda
4/23/2019 6:56:26 AM



#20
Methylene Chloride
Concen: 20.641 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion: 84 Resp: 115041
Ion Ratio Lower Upper
84 100
49 113.7 94.0 141.0
51 31.2 29.0 43.4
86 59.5 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 17.758 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 96 Resp: 87947

Ion Ratio Lower Upper

96 100

61 132.0 104.4 156.6

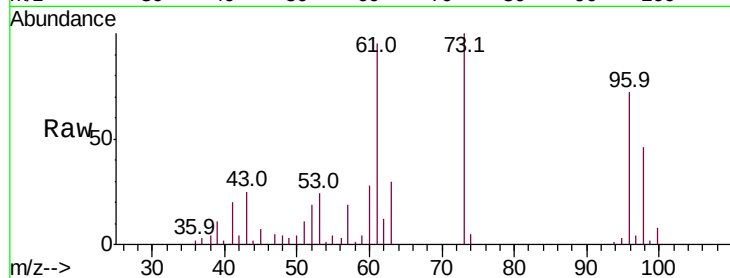
98 63.7 51.8 77.8

Manual Integrations

APPROVED

MMDadoda

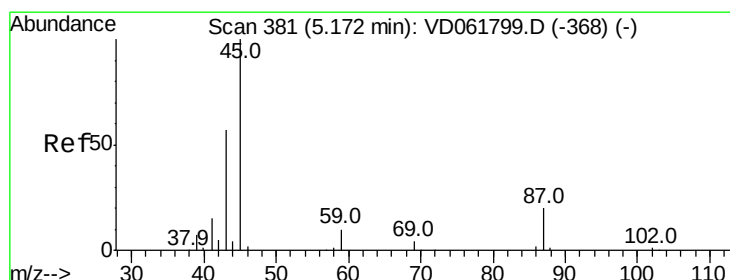
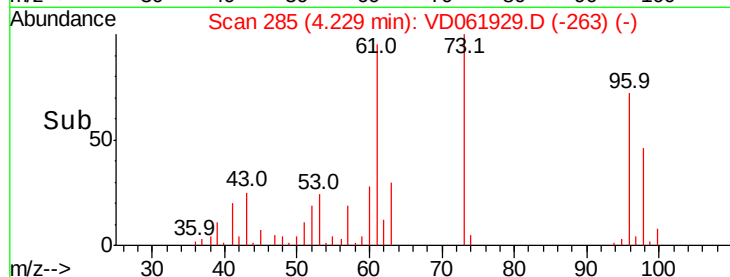
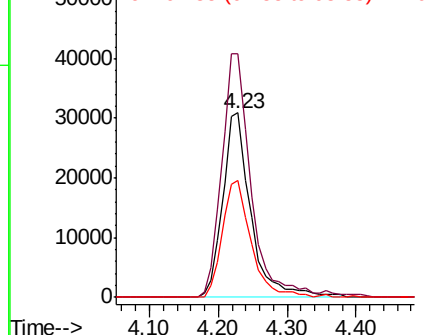
4/23/2019 6:56:26 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 23.024 ug/l

RT: 5.12 min Scan# 376

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion: 45 Resp: 302323

Ion Ratio Lower Upper

45 100

43 60.8 46.2 69.2

87 18.7 15.9 23.9

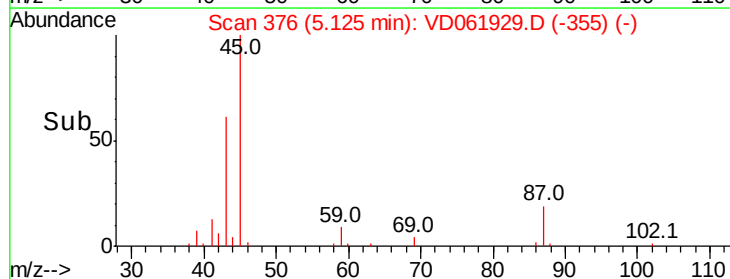
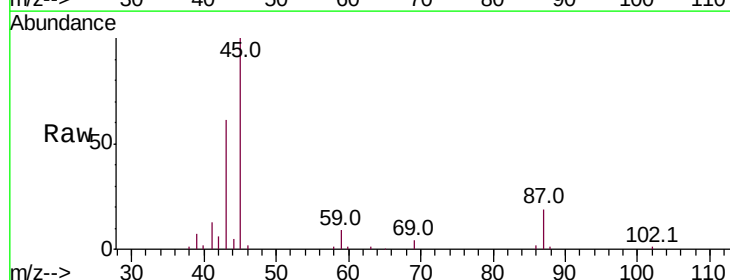
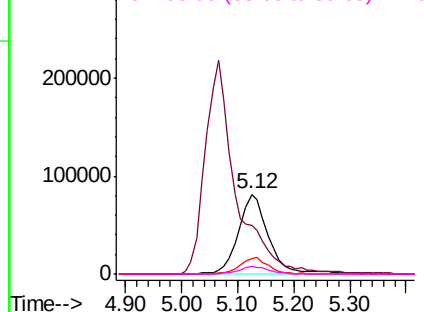
59 9.4 7.9 11.9

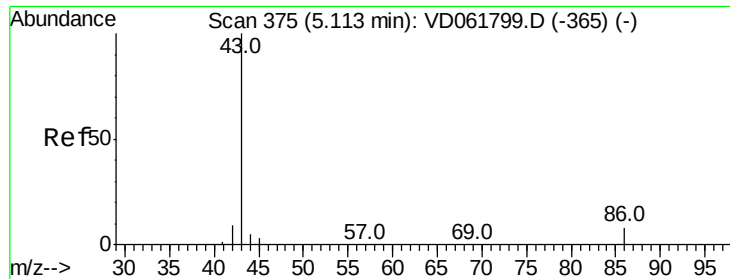
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 117.522 ug/l

RT: 5.07 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 43 Resp: 824904

Ion Ratio Lower Upper

43 100

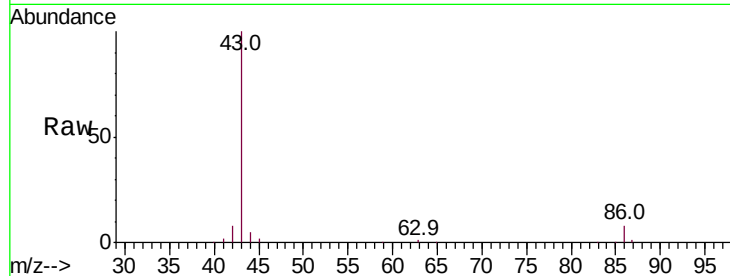
86 8.0 6.4 9.6

Manual Integrations

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MMDadoda

4/23/2019 6:56:26 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

250000

200000

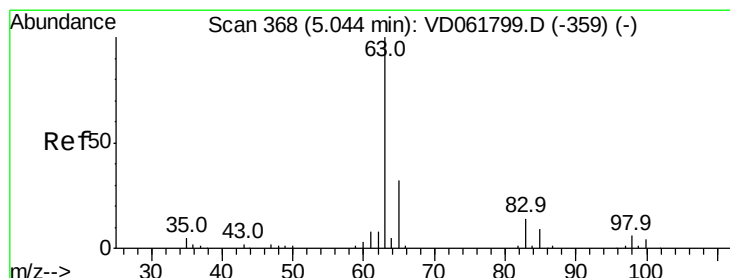
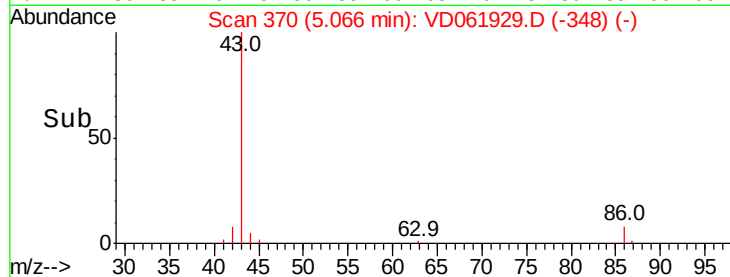
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.693 ug/l

RT: 5.00 min Scan# 363

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

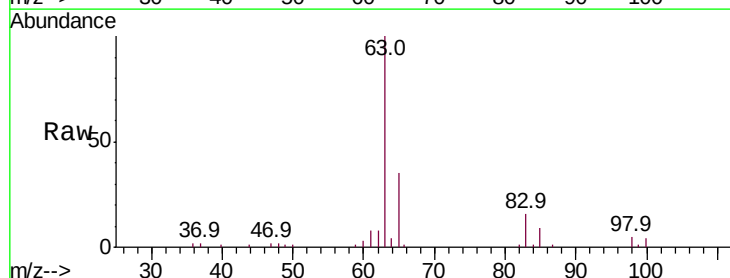
Tgt Ion: 63 Resp: 172700

Ion Ratio Lower Upper

63 100

98 5.1 2.8 8.4

100 3.7 1.8 5.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

60000

50000

40000

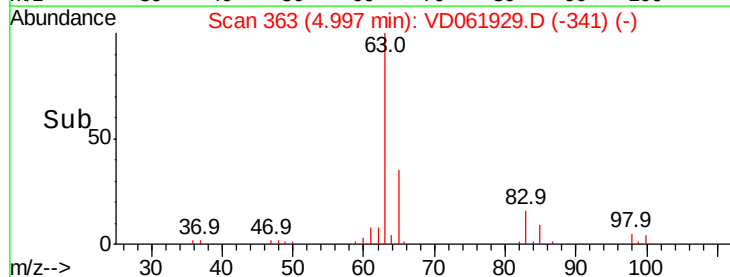
30000

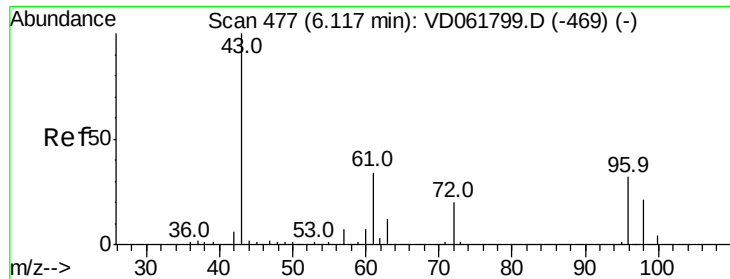
20000

10000

0

Time-->





#25

2-Butanone

Concen: 117.231 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tot Ion: 43 Resp: 132376

Ion Ratio Lower Upper

43 100

72 19.0 16.2 24.4

Instrument :

MSVOA_D

ClientSampleId :

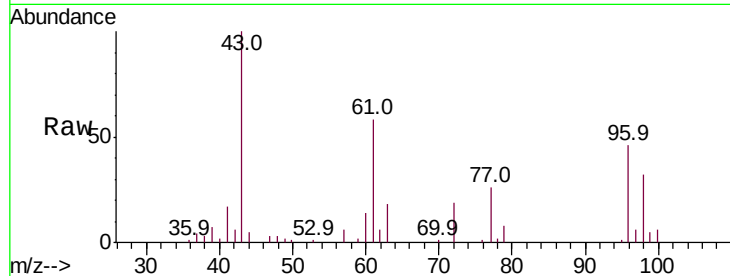
VD9419SBS02

Manual Integrations

APPROVED

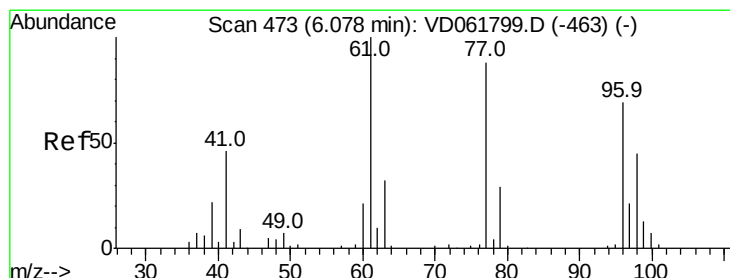
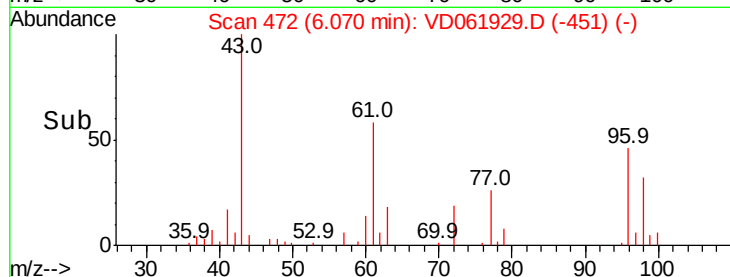
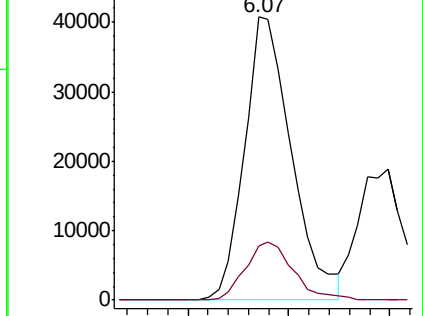
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.708 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD061929.D

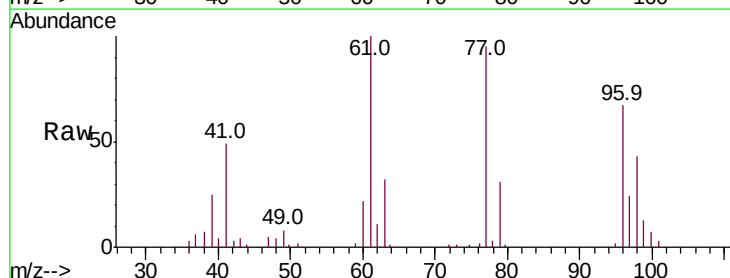
Acq: 20 Apr 2019 4:00

Tgt Ion: 77 Resp: 135611

Ion Ratio Lower Upper

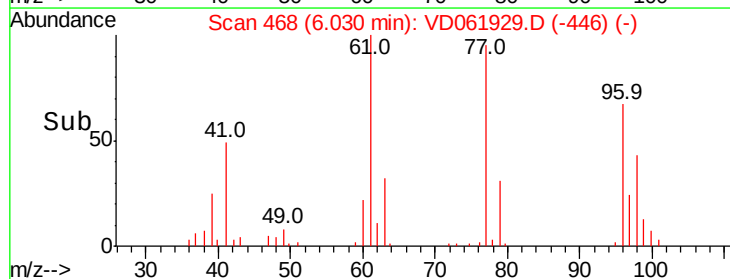
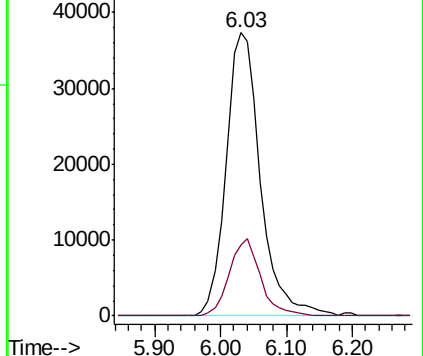
77 100

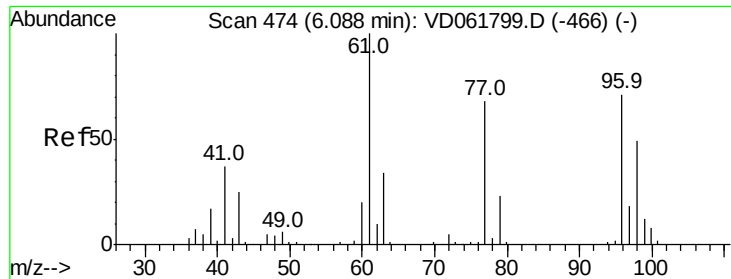
97 25.1 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

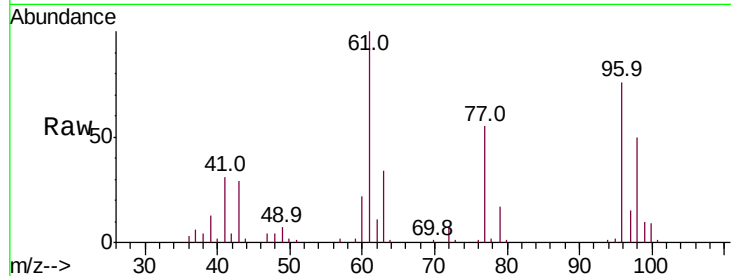
cis-1,2-Dichloroethene
 Concen: 22.176 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

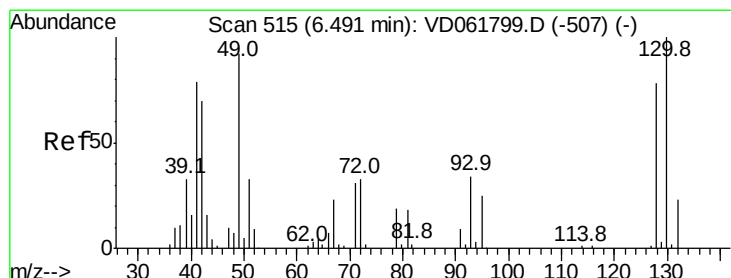
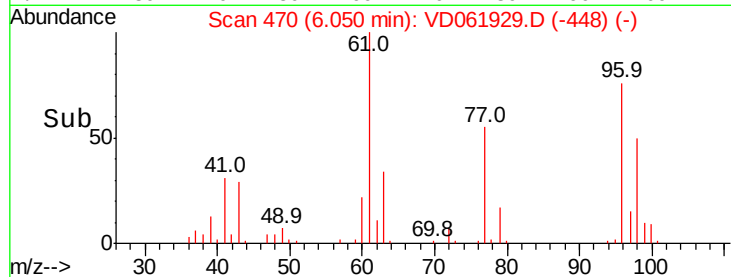
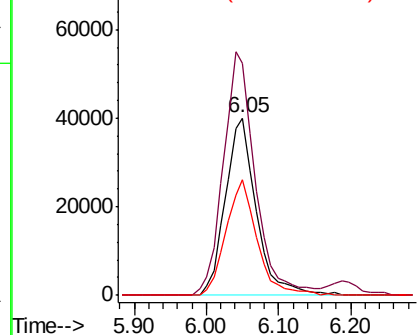
Tot Ion	Ratio	Resp	Lower	Upper
96	100	119058		
61	130.9	0.0	279.8	
98	64.9	0.0	136.0	

Manual Integrations
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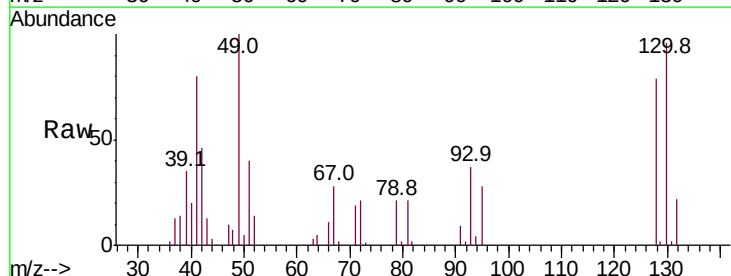
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



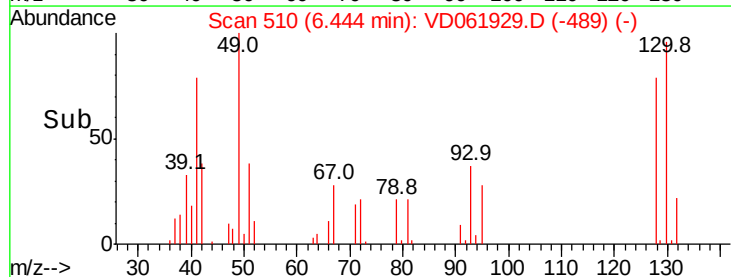
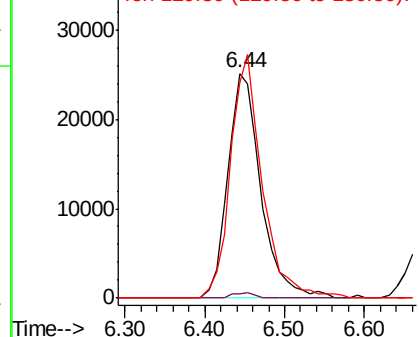
#28

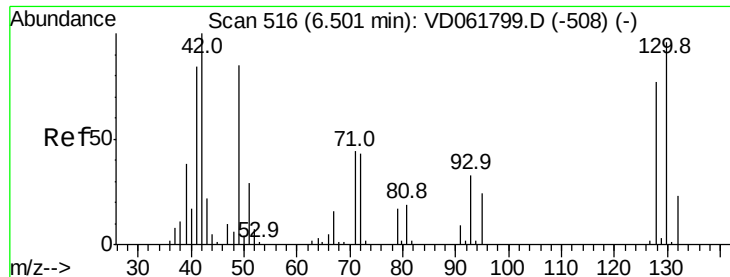
Bromochloromethane
 Concen: 24.170 ug/l
 RT: 6.44 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	73088		
129	2.0	0.0	6.6	
130	96.2	86.7	130.1	



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





#29

Tetrahydrofuran

Concen: 129.904 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 42 Resp: 71453

Ion Ratio Lower Upper

42 100

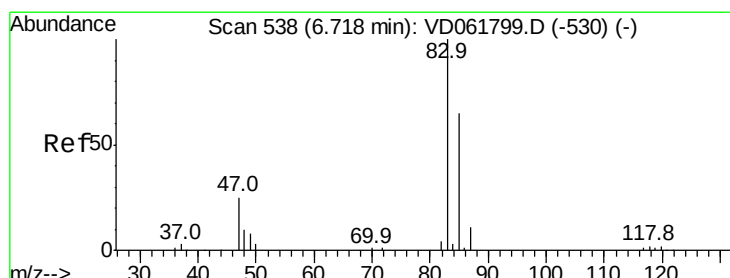
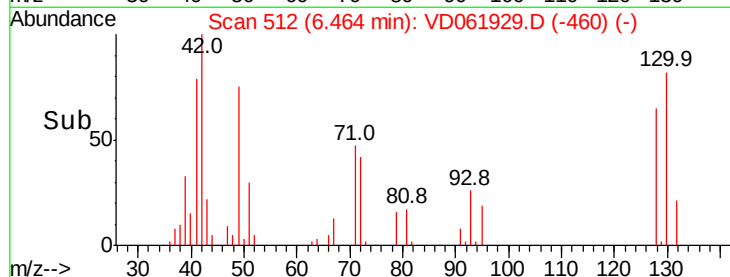
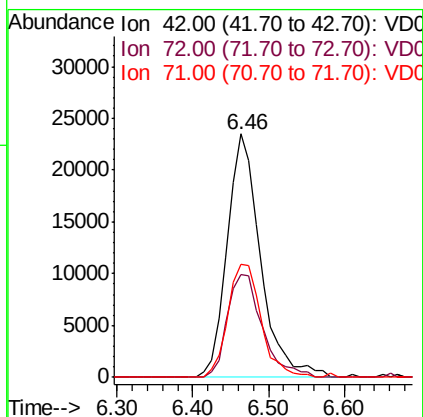
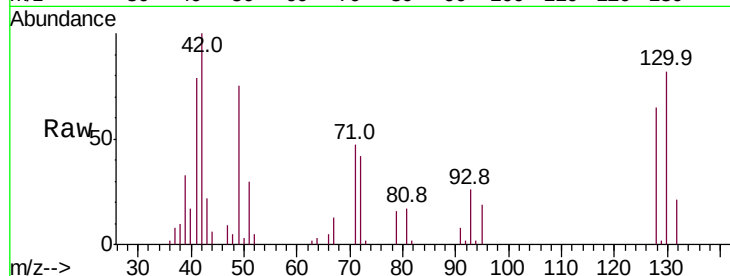
72 44.3 37.8 56.6

71 46.4 36.7 55.1

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#30

Chloroform

Concen: 23.060 ug/l

RT: 6.67 min Scan# 533

Delta R.T. 0.00 min

Lab File: VD061929.D

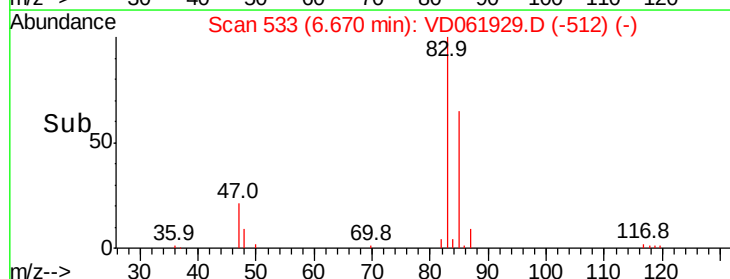
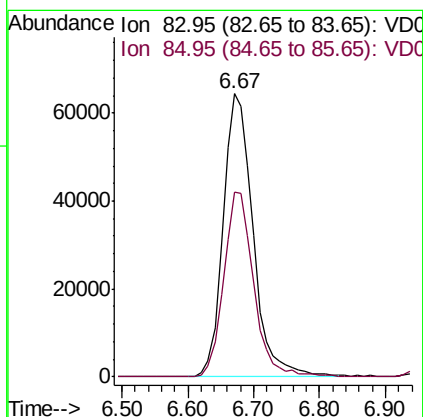
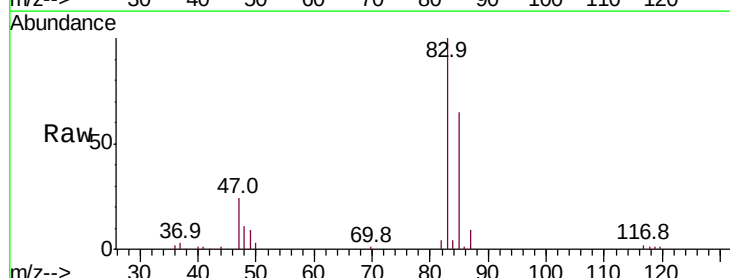
Acq: 20 Apr 2019 4:00

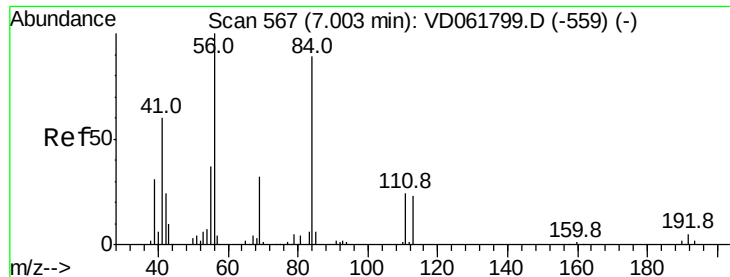
Tgt Ion: 83 Resp: 204764

Ion Ratio Lower Upper

83 100

85 65.3 51.7 77.5





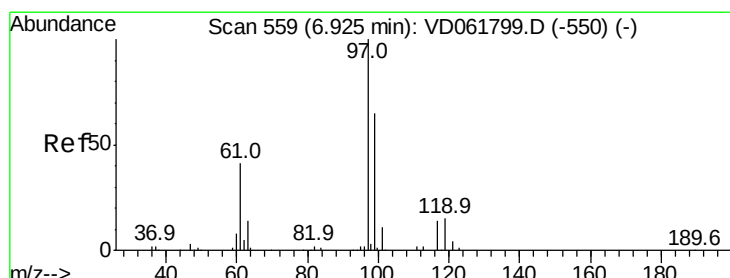
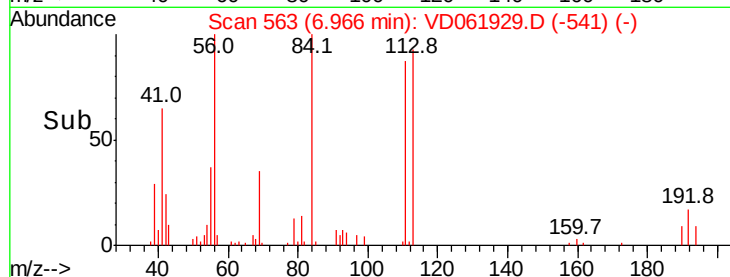
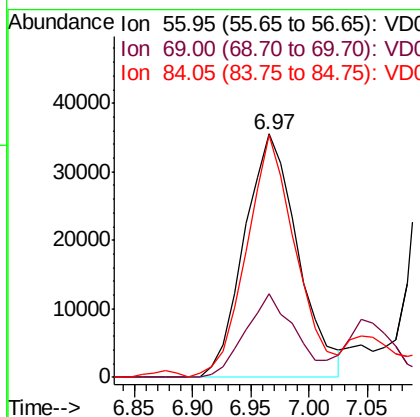
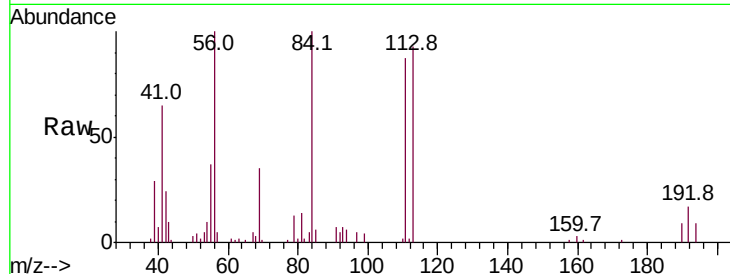
#31
Cyclohexane
Concen: 18.534 ug/l
RT: 6.97 min Scan# 563
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.6	25.8	38.6
84	99.6	72.2	108.4

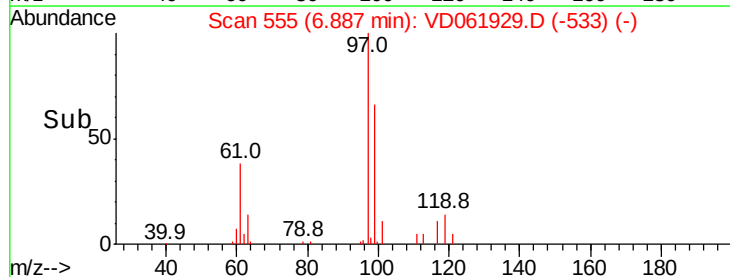
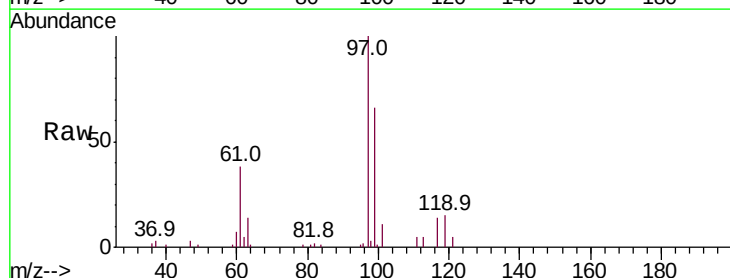
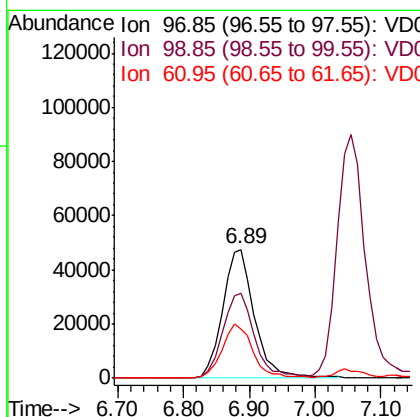
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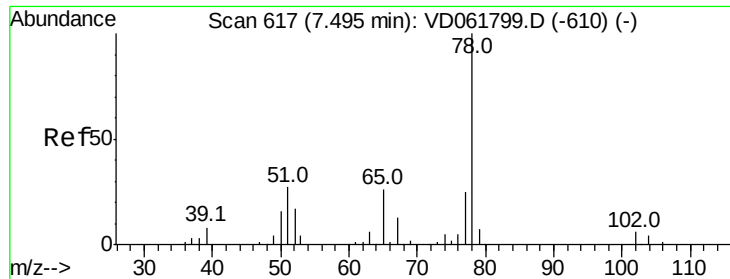
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 20.296 ug/l
RT: 6.89 min Scan# 555
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.0	52.2	78.2
61	38.3	32.4	48.6





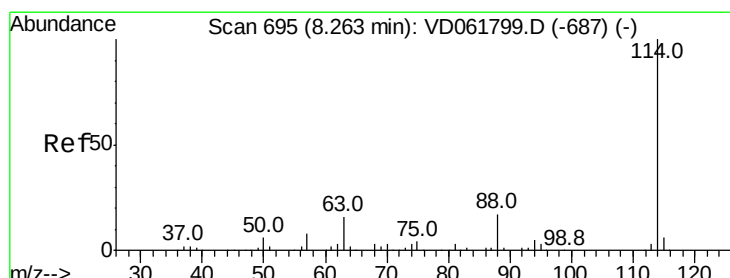
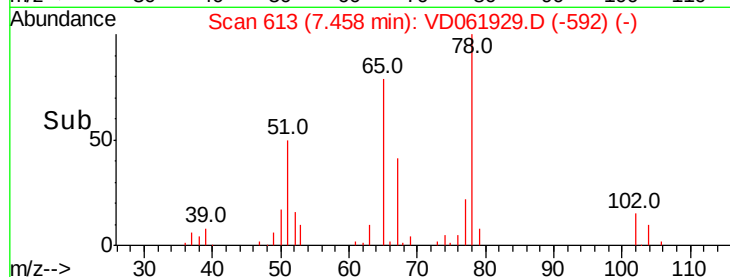
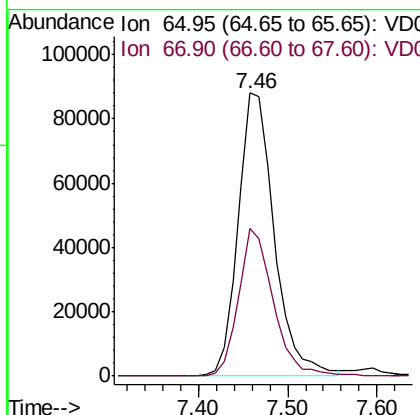
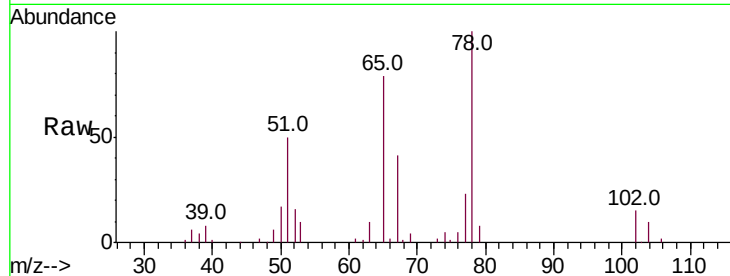
#33
 1,2-Dichloroethane-d4
 Concen: 61.533 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Tot Ion: 65 Resp: 247629
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 98.0

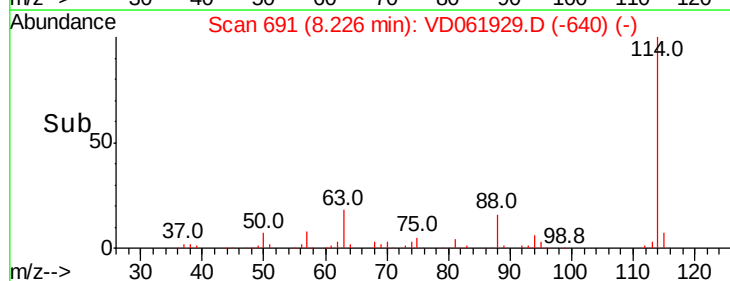
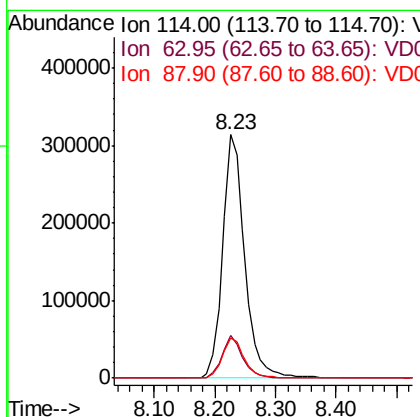
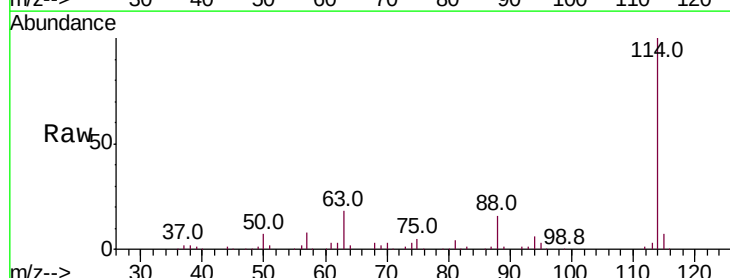
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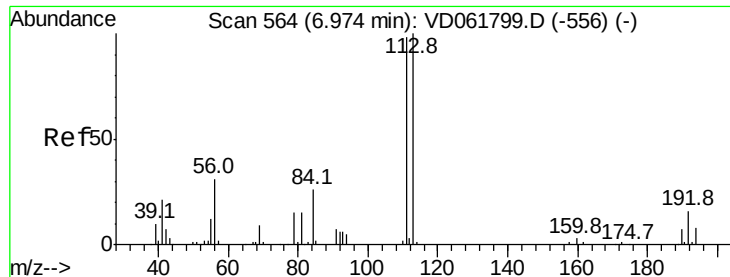
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion: 114 Resp: 788089
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 32.4
 88 16.3 0.0 33.6





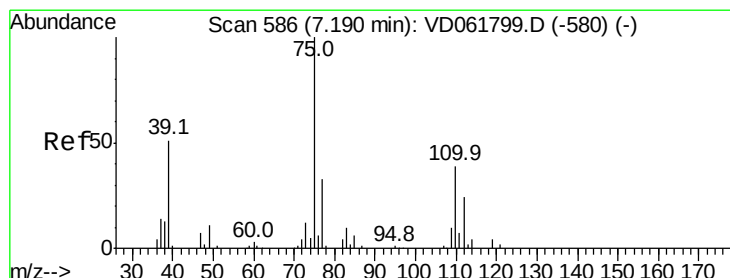
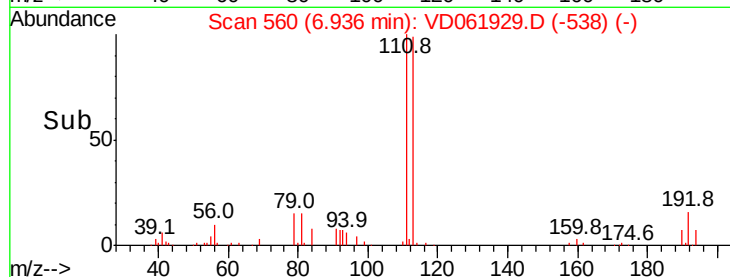
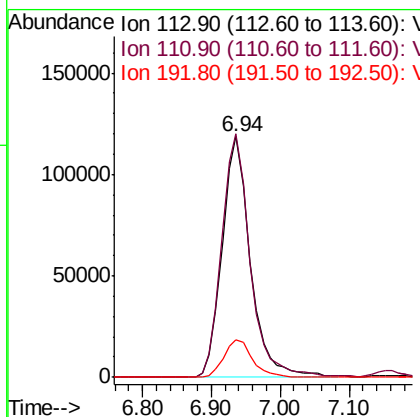
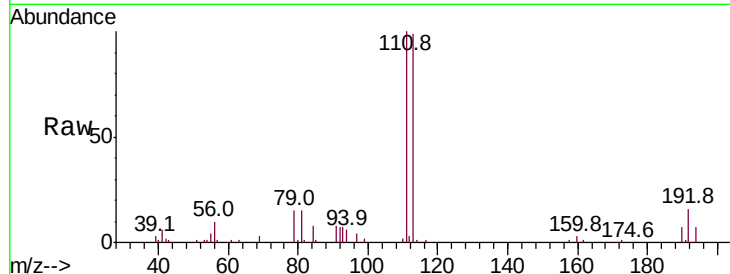
#35
 Dibromofluoromethane
 Concen: 56.634 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.2	78.5	117.7	
192	15.7	13.0	19.4	

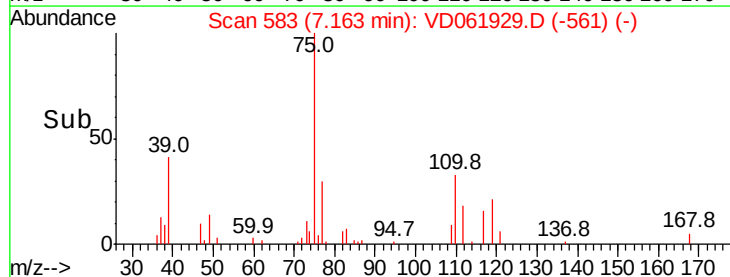
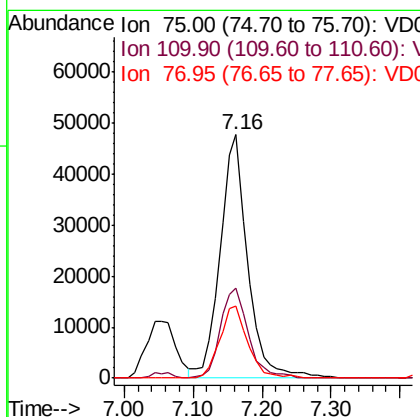
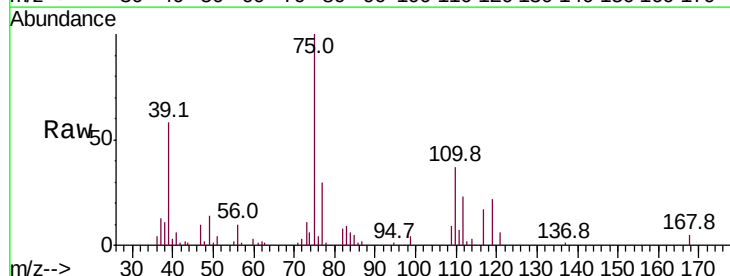
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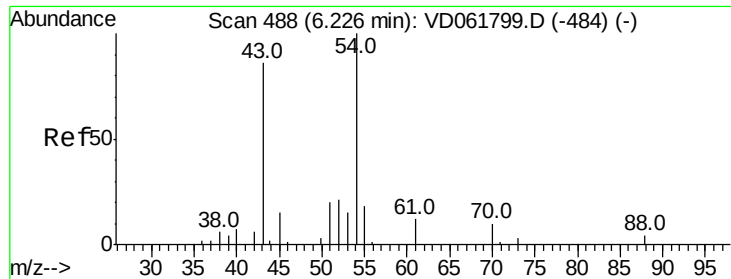
MMDadoda
 4/23/2019 6:56:26 AM



#36
 1,1-Dichloropropene
 Concen: 20.465 ug/l
 RT: 7.16 min Scan# 583
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.8	19.1	57.1	
77	29.8	25.6	38.4	





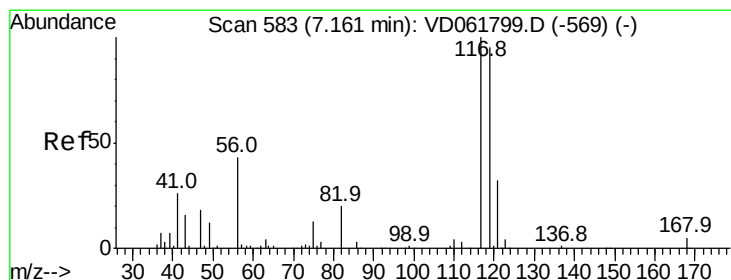
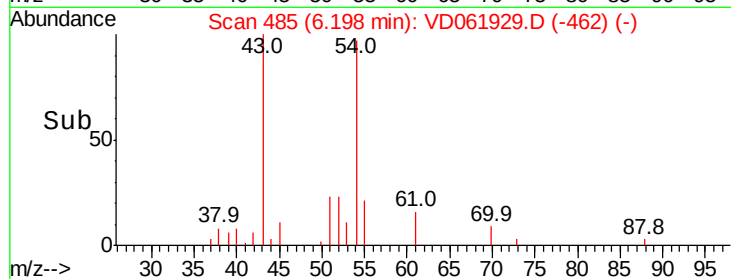
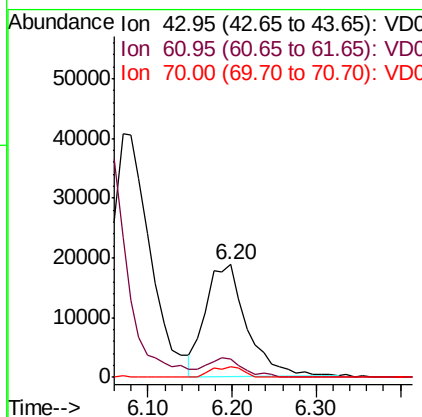
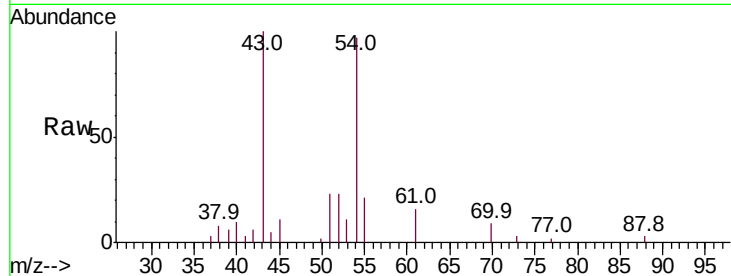
#37
Ethyl Acetate
Concen: 22.744 ug/l
RT: 6.20 min Scan# 485
Delta R.T. 0.02 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.0	14.7	22.1
70	9.1	7.8	11.6

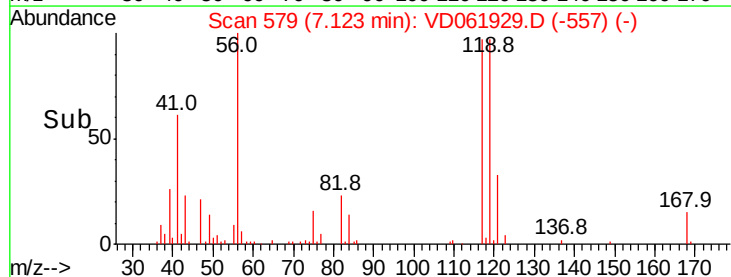
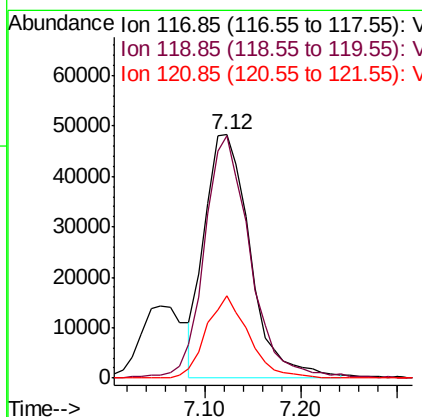
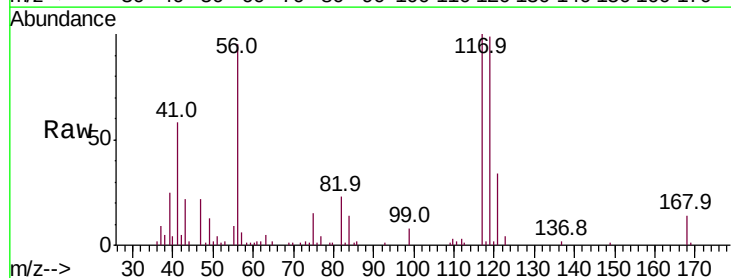
Manual Integrations
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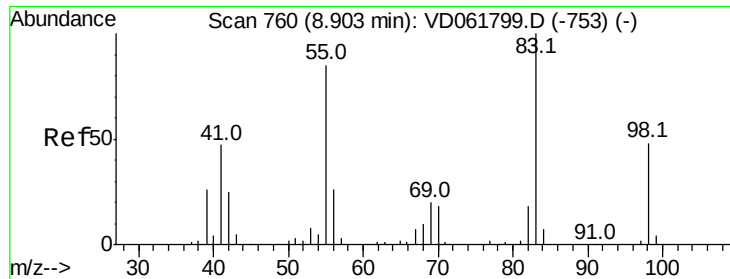
MMDadoda
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#38
Carbon Tetrachloride
Concen: 19.645 ug/l m
RT: 7.12 min Scan# 579
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.5	75.8	113.8
121	33.8	25.9	38.9





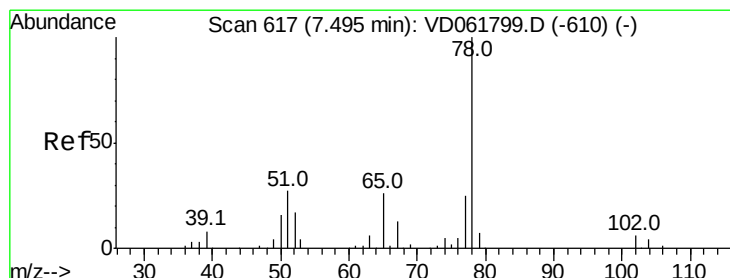
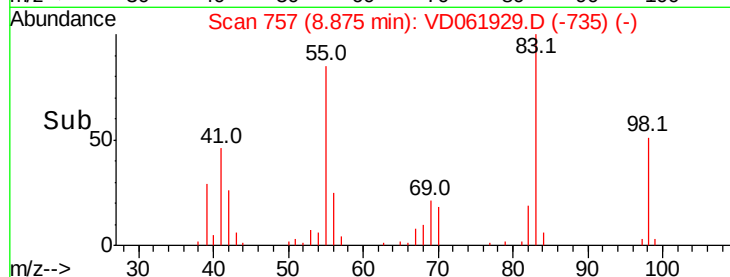
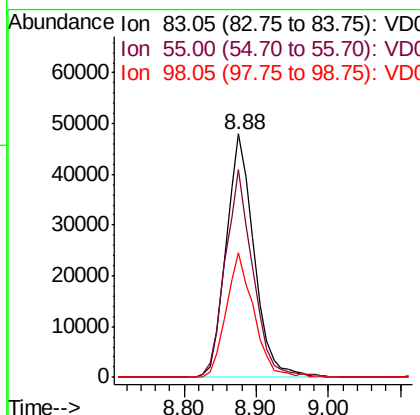
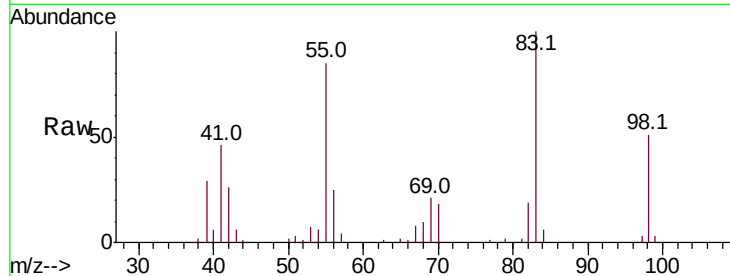
#39
Methylvlcyclohexane
Concen: 19.238 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	83	Resp	128651
Ion Ratio	100	Lower	Upper
83	100		
55	85.5	68.2	102.4
98	51.4	38.2	57.4

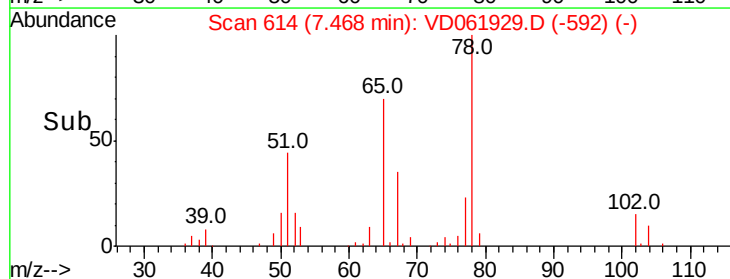
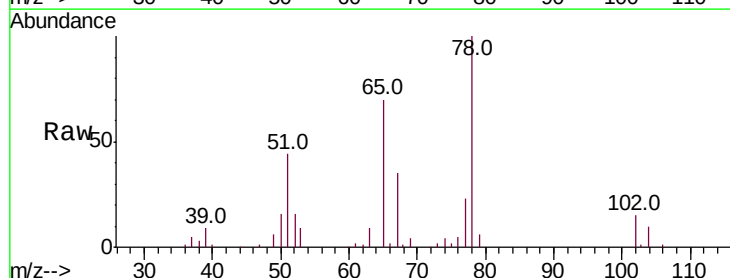
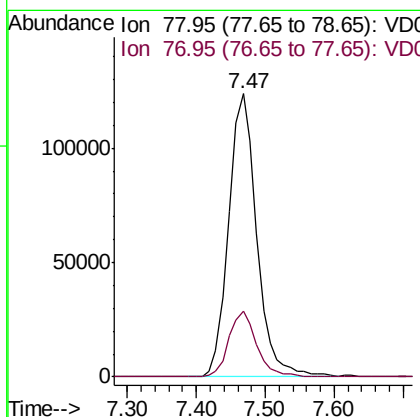
Manual Integrations
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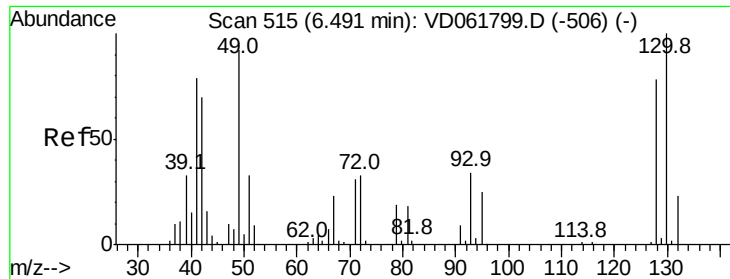
MMDadoda
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#40
Benzene
Concen: 22.674 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	78	Resp	350556
Ion Ratio	100	Lower	Upper
78	100		
77	23.1	19.7	29.5





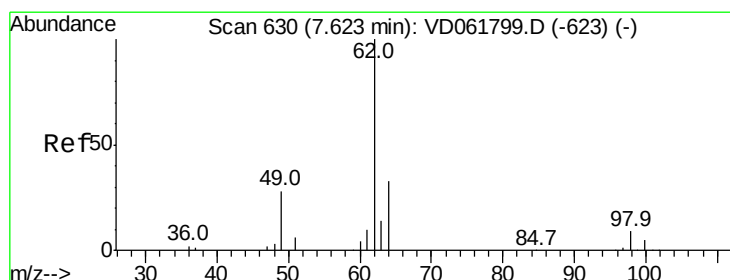
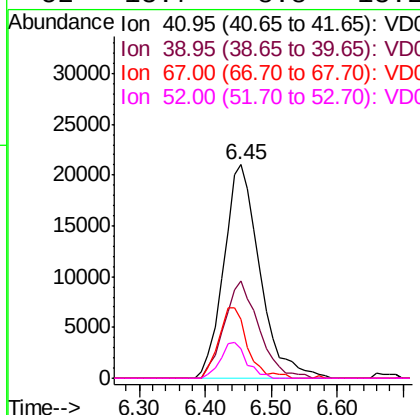
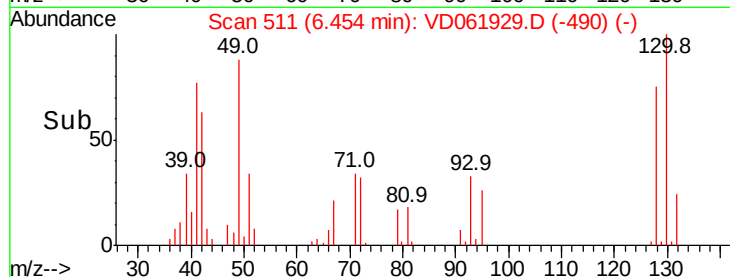
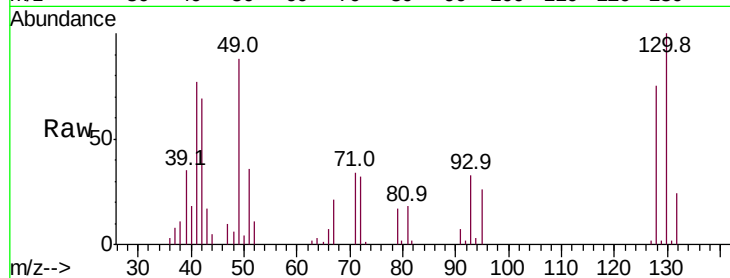
#41
Methacrylonitrile
Concen: 24.695 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.00 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	45.4	34.1	51.1
67	27.8	23.8	35.6
52	13.7	8.8	13.2

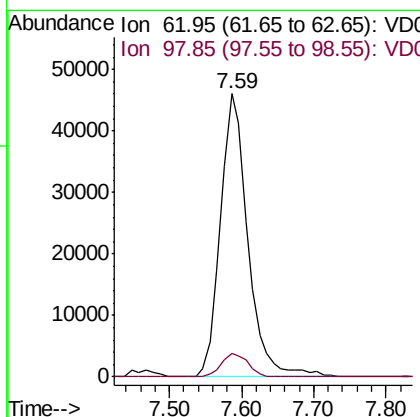
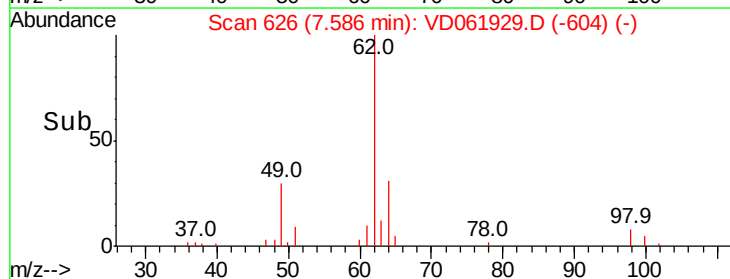
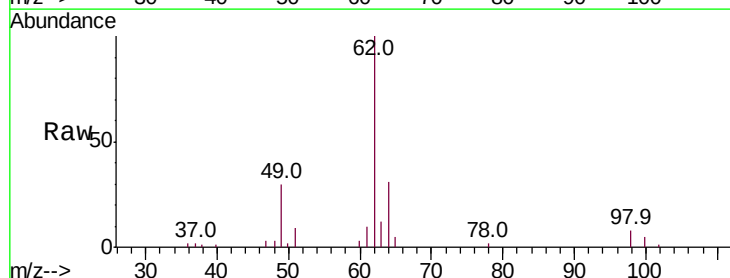
Manual Integrations
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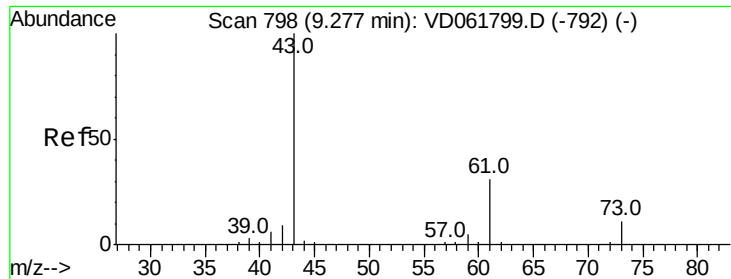
MMDadoda
4/23/2019 6:56:26 AM



#42
1,2-Dichloroethane
Concen: 22.500 ug/l
RT: 7.59 min Scan# 626
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.8





#43

Isopropyl Acetate

Concen: 26.682 ug/l

RT: 9.25 min Scan# 795

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

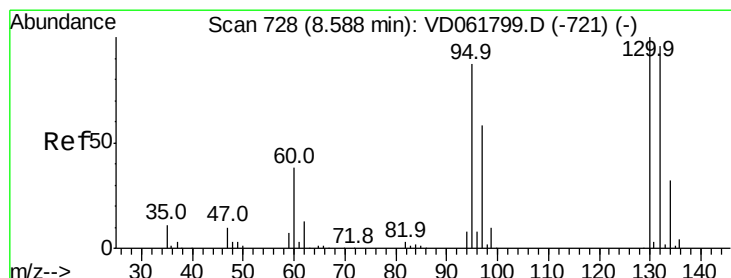
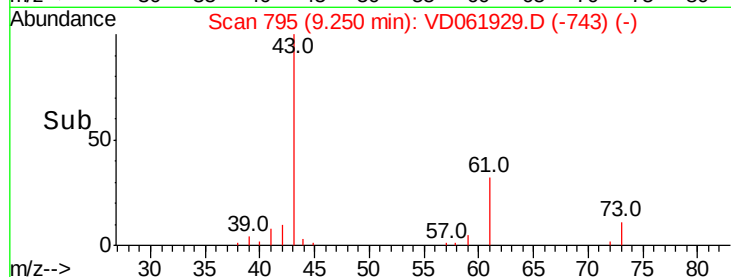
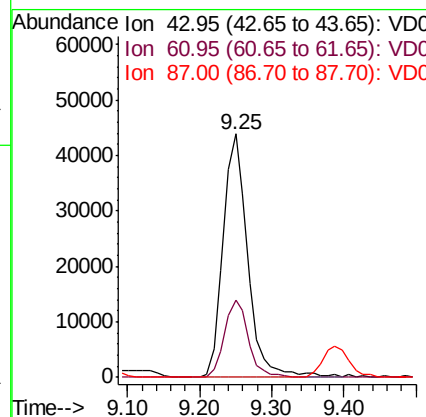
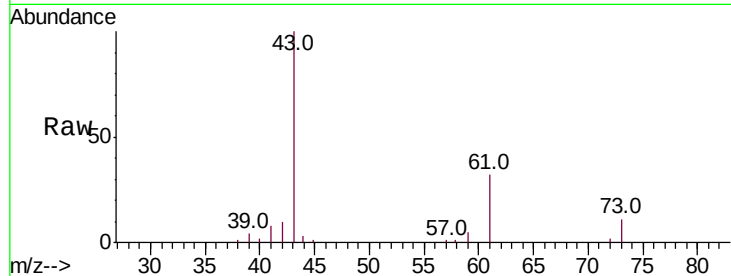
ClientSampleId :

VD9419SBS02

Tot Ion:	43	Resp:	103490
Ion	Ratio	Lower	Upper
43	100		
61	31.9	25.1	37.7
87	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:56:26 AM



#44

Trichloroethene

Concen: 22.095 ug/l

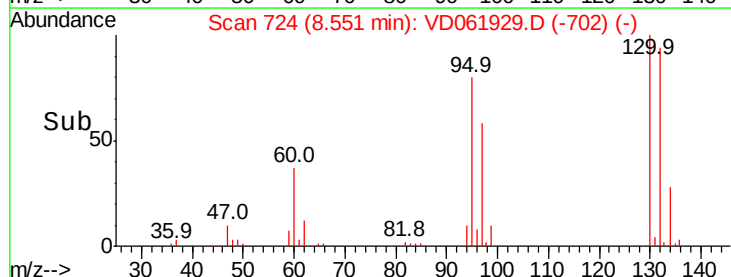
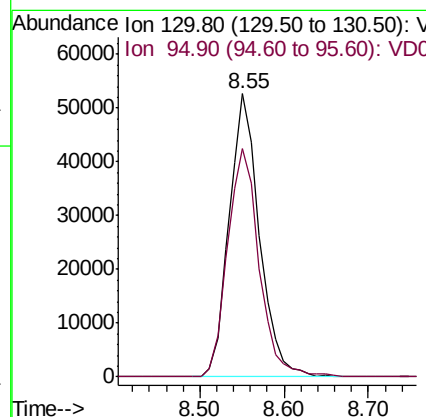
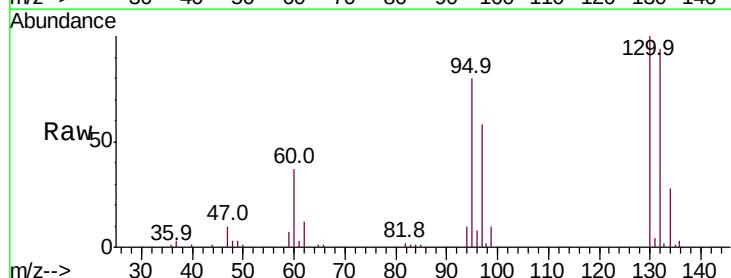
RT: 8.55 min Scan# 724

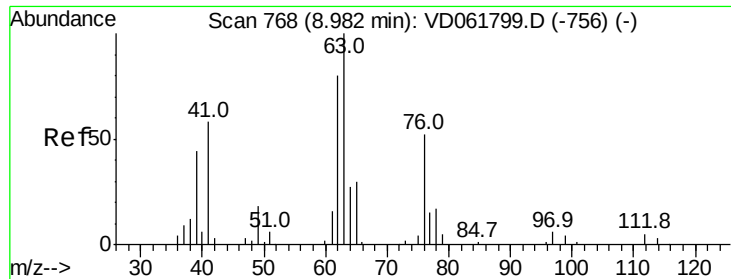
Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion:	130	Resp:	131507
Ion	Ratio	Lower	Upper
130	100		
95	80.5	0.0	174.0





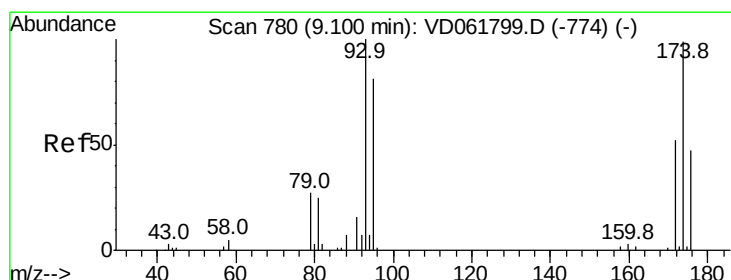
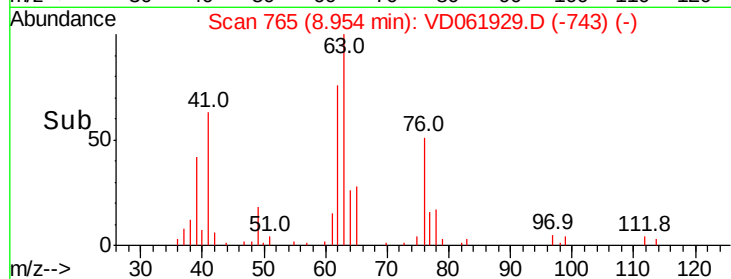
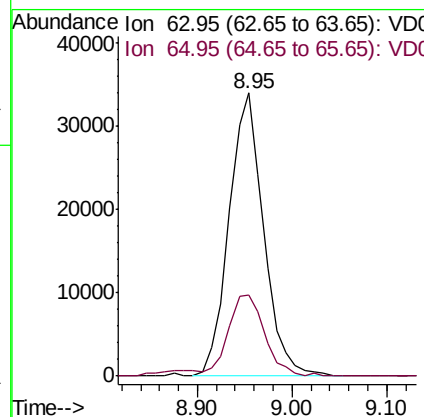
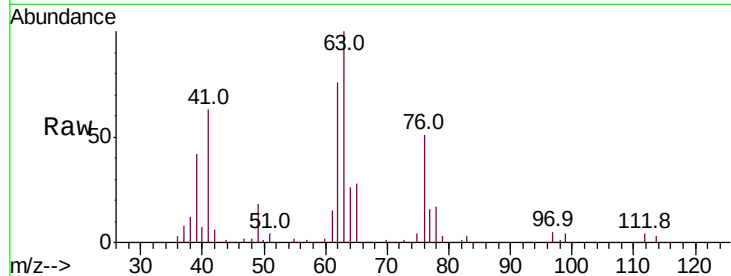
#45
1,2-Dichloropropane
Concen: 21.330 ug/l
RT: 8.95 min Scan# 765
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion: 63 Resp: 85901
Ion Ratio Lower Upper
63 100
65 28.5 23.8 35.6

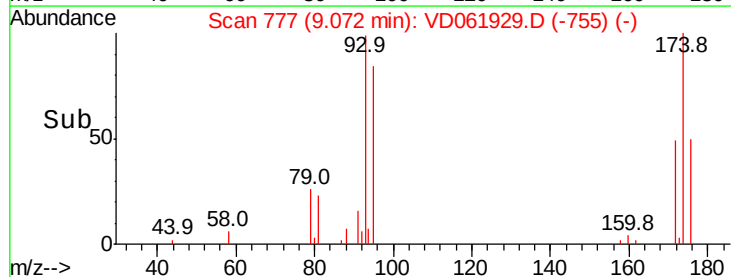
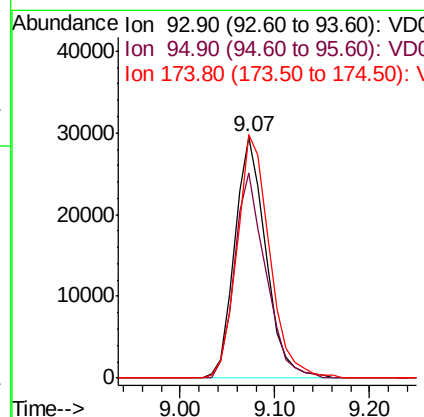
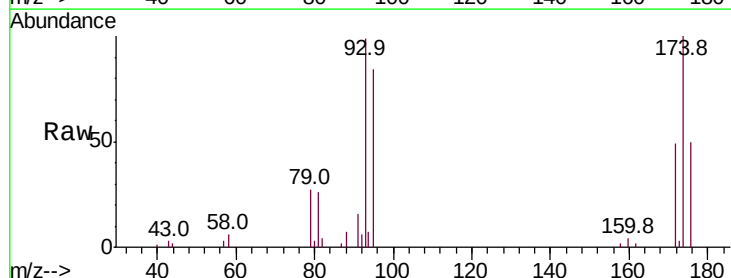
Manual Integrations
APPROVED

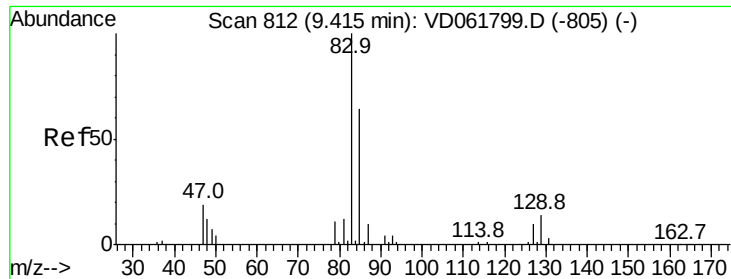
MMDadoda
4/23/2019 6:56:26 AM



#46
Dibromomethane
Concen: 23.323 ug/l
RT: 9.07 min Scan# 777
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion: 93 Resp: 66925
Ion Ratio Lower Upper
93 100
95 84.9 64.8 97.2
174 100.9 79.3 118.9





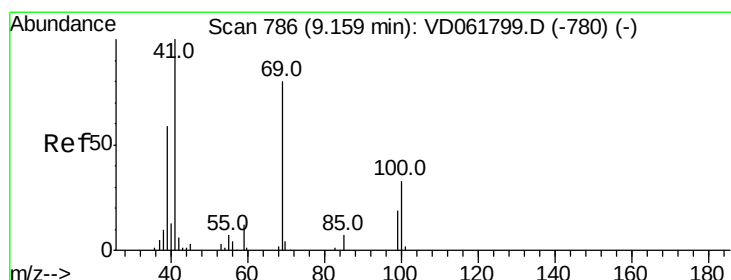
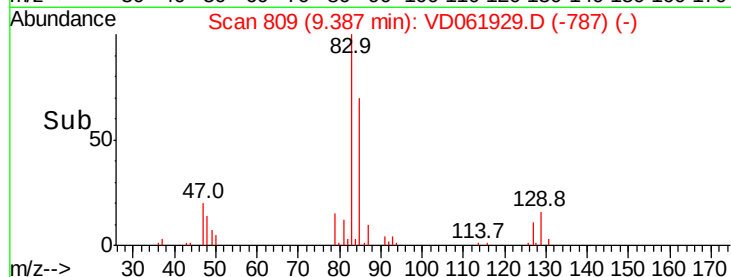
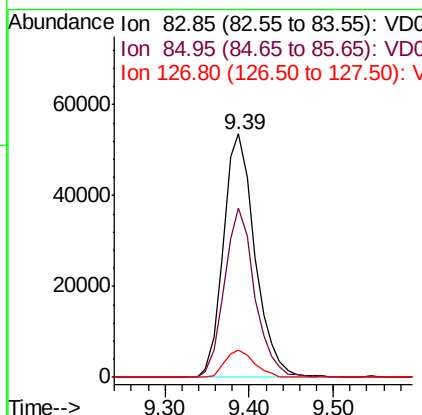
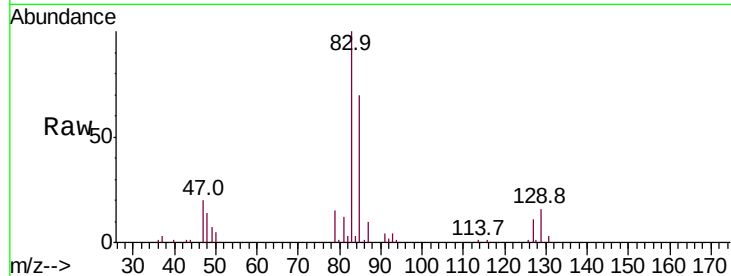
#47
Bromodichloromethane
Concen: 21.106 ug/l
RT: 9.39 min Scan# 809
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	69.5	50.9	76.3	
127	11.2	8.1	12.1	

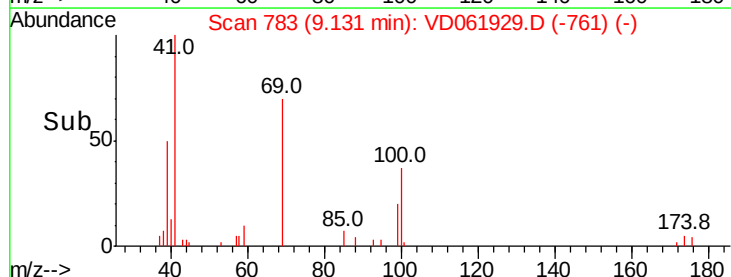
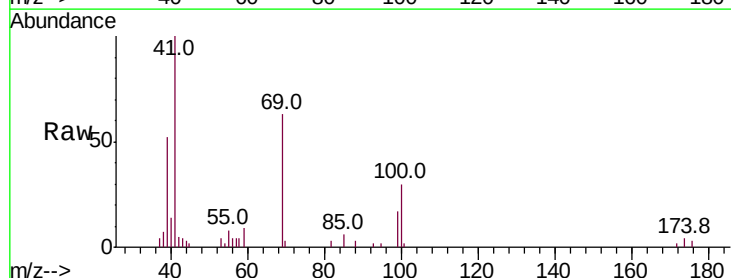
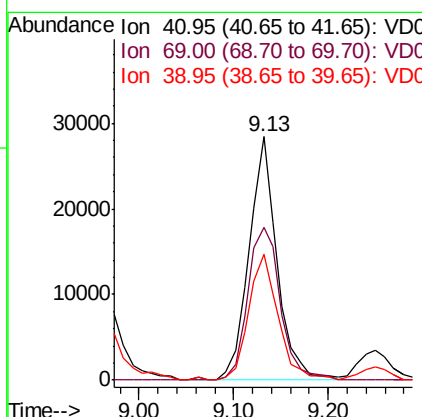
Manual Integrations
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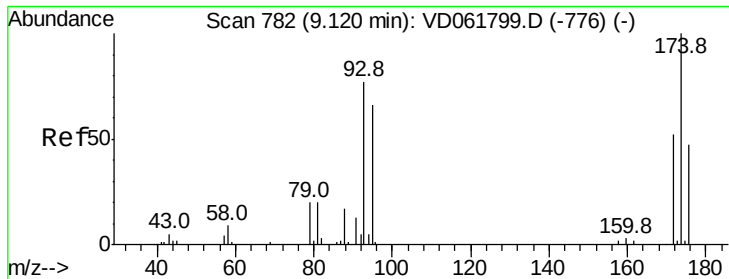
MMDadoda
4/23/2019 6:56:26 AM



#48
Methyl methacrylate
Concen: 25.627 ug/l
RT: 9.13 min Scan# 783
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	62.8	64.2	96.2#	
39	51.9	46.8	70.2	





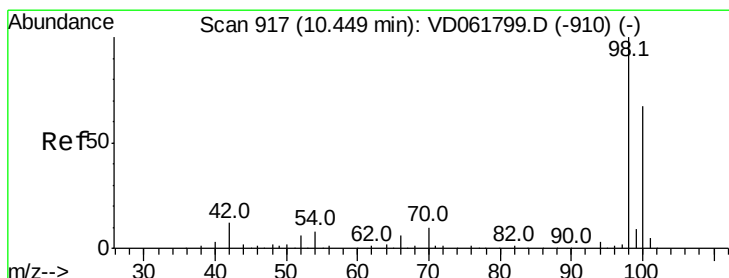
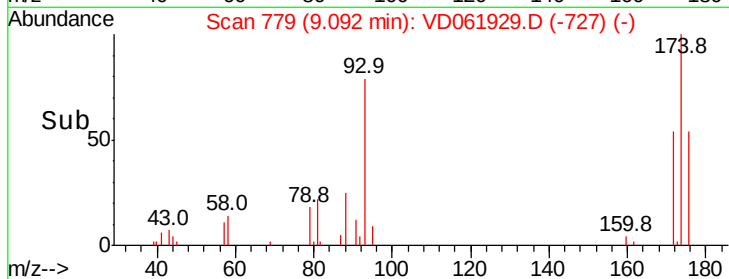
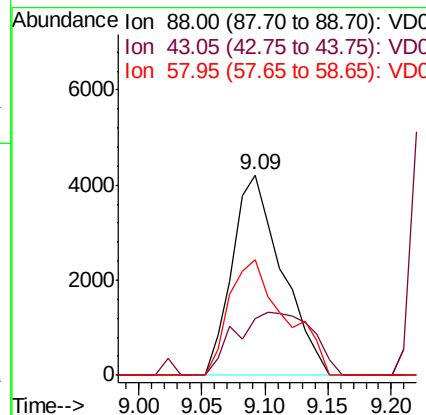
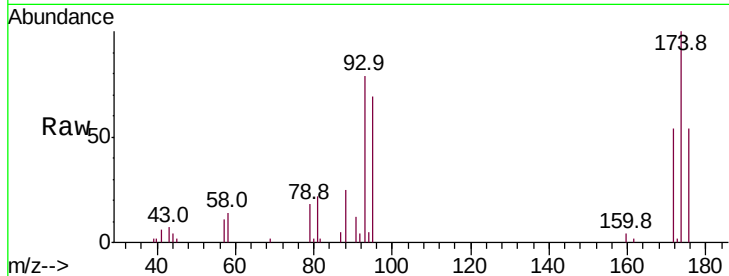
#49
1,4-Dioxane
Concen: 461.394 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.2	23.4	35.0
58	57.8	44.0	66.0

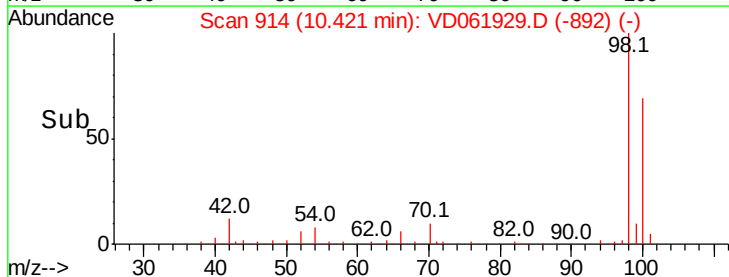
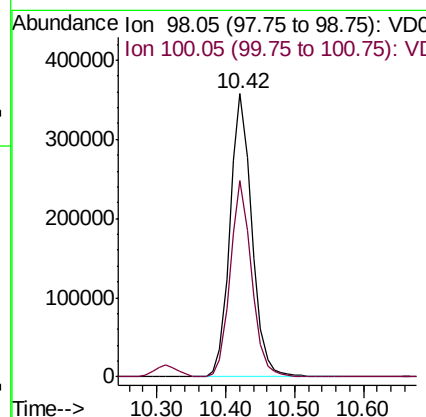
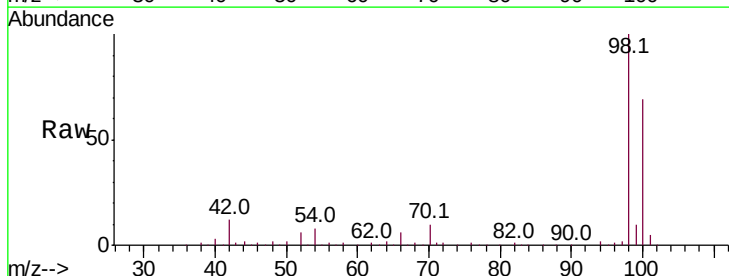
Manual Integrations
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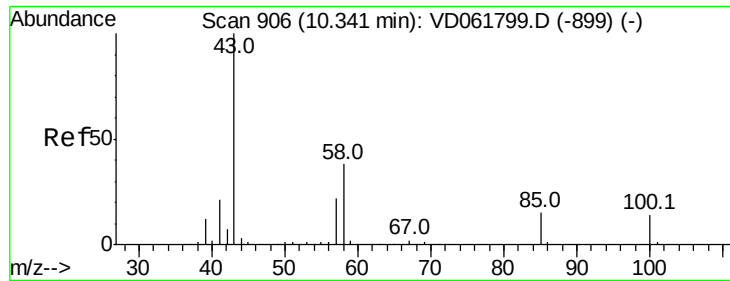
MMDadoda
4/23/2019 6:56:26 AM



#50
Toluene-d8
Concen: 55.848 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.3	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 125.372 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 43 Resp: 297377

Ion Ratio Lower Upper

43 100

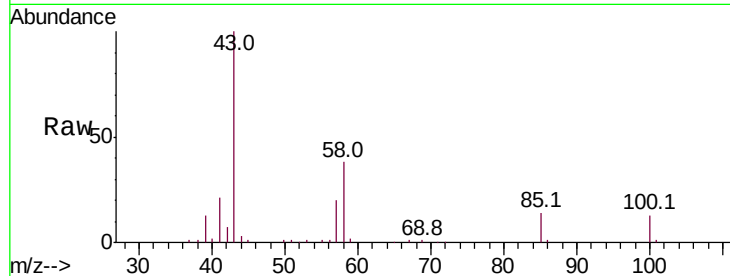
58 38.2 30.4 45.6

Manual Integrations

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MMDadoda

4/23/2019 6:56:26 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

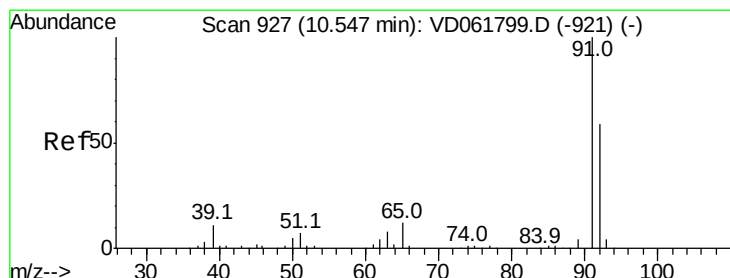
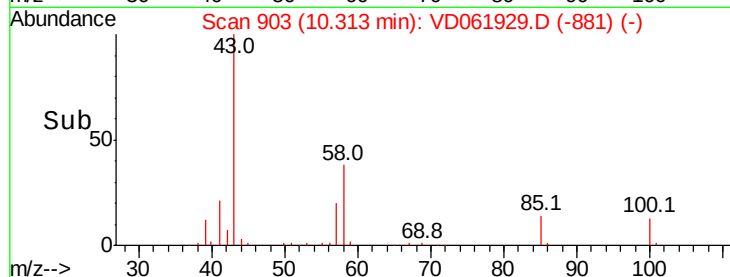
10.31

100000

50000

0

Time-->



#52

Toluene

Concen: 21.197 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061929.D

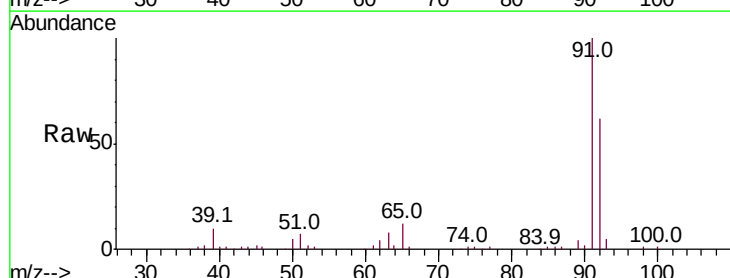
Acq: 20 Apr 2019 4:00

Tgt Ion: 92 Resp: 210016

Ion Ratio Lower Upper

92 100

91 160.0 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.52

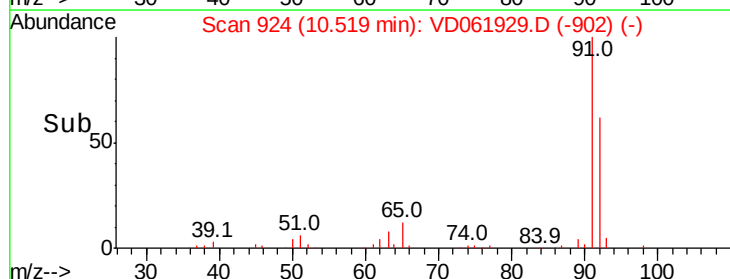
150000

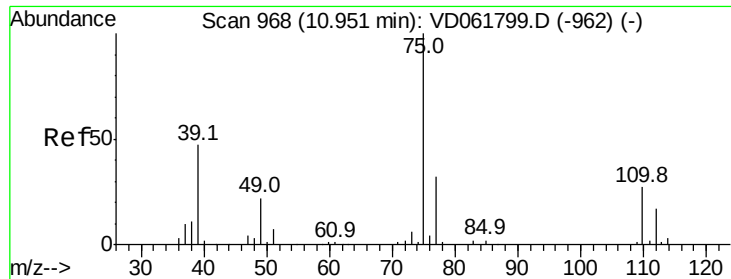
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 22.026 ug/l

RT: 10.92 min Scan# 965

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tot Ion: 75 Resp: 131391

Ion Ratio Lower Upper

75 100

77 32.8 25.8 38.8

Instrument :

MSVOA_D

ClientSampleId :

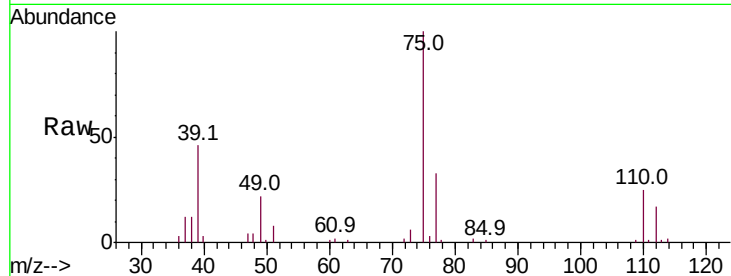
VD9419SBS02

Manual Integrations

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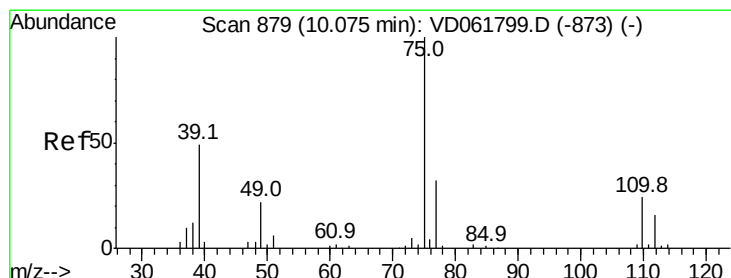
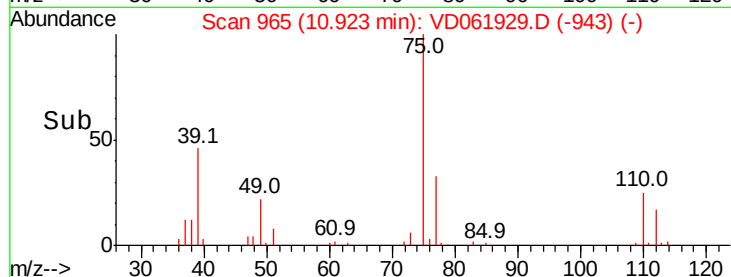
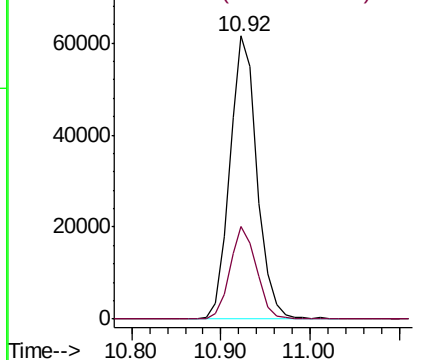
MMDadoda

4/23/2019 6:56:26 AM



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 20.533 ug/l

RT: 10.05 min Scan# 876

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

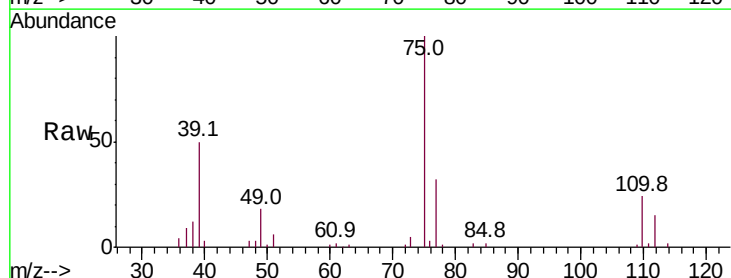
Tgt Ion: 75 Resp: 143776

Ion Ratio Lower Upper

75 100

77 32.0 25.5 38.3

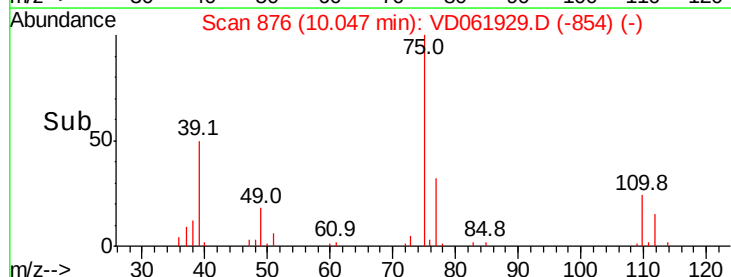
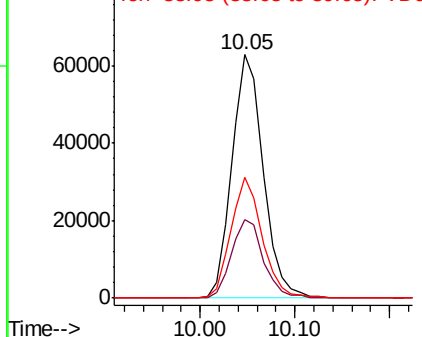
39 49.7 39.4 59.2

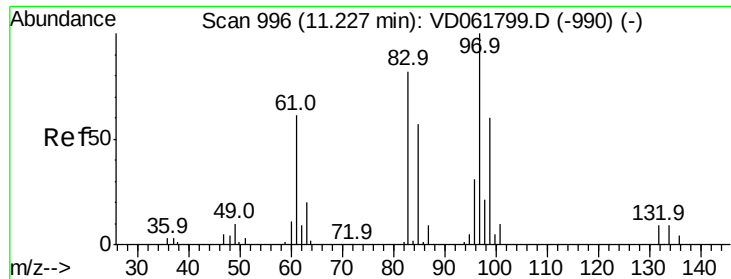


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





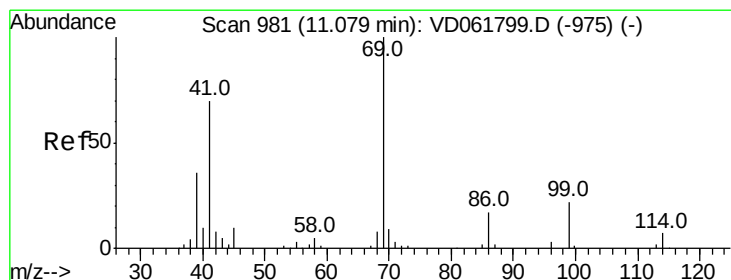
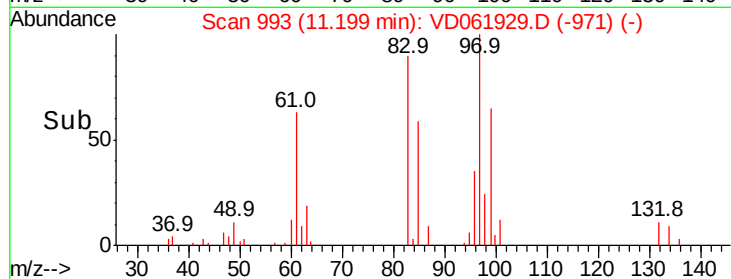
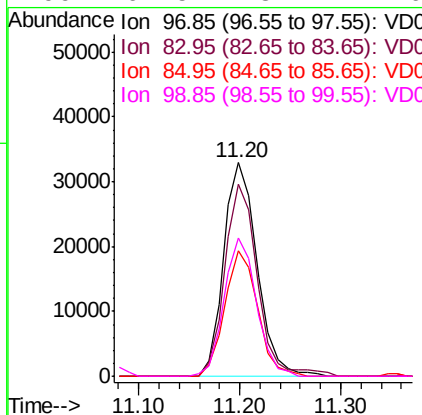
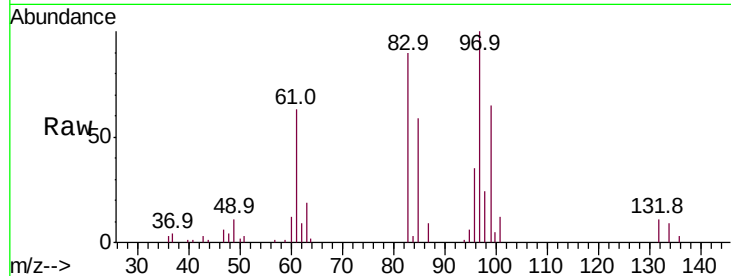
#55
 1,1,2-Trichloroethane
 Concen: 22.645 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Tot Ion	97	Resp	75602
Ion	Ratio	Lower	Upper
97	100		
83	90.1	65.7	98.5
85	58.6	45.6	68.4
99	64.5	48.4	72.6

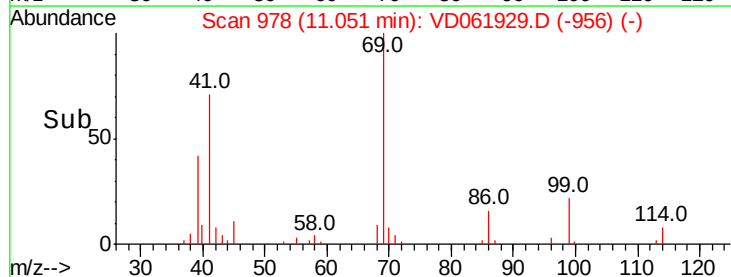
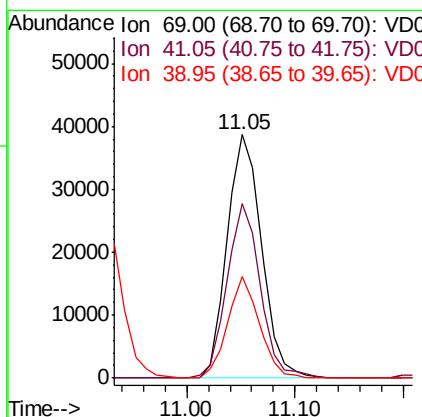
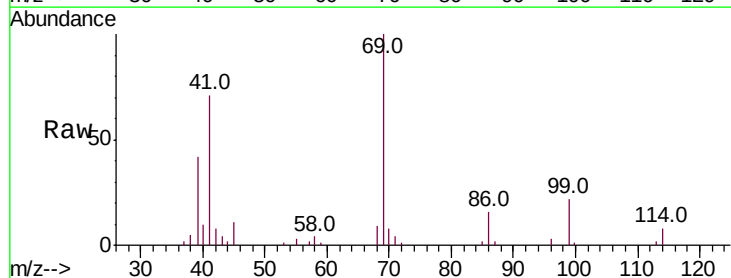
Manual Integrations
 APPROVED

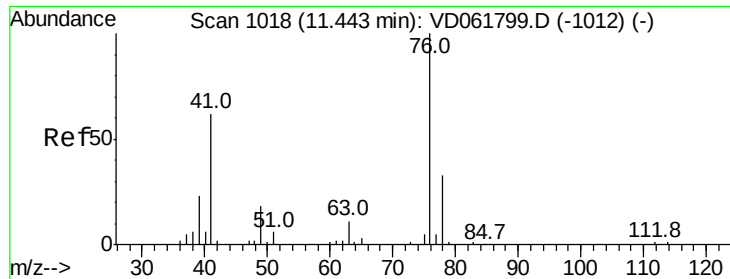
MMDadoda
 4/23/2019 6:56:26 AM



#56
 Ethyl methacrylate
 Concen: 23.327 ug/l
 RT: 11.05 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	69	Resp	85474
Ion	Ratio	Lower	Upper
69	100		
41	71.5	56.3	84.5
39	41.8	29.4	44.2





#57

1,3-Dichloropropane

Concen: 22.876 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

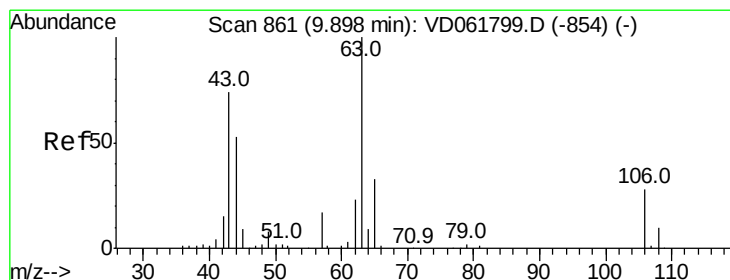
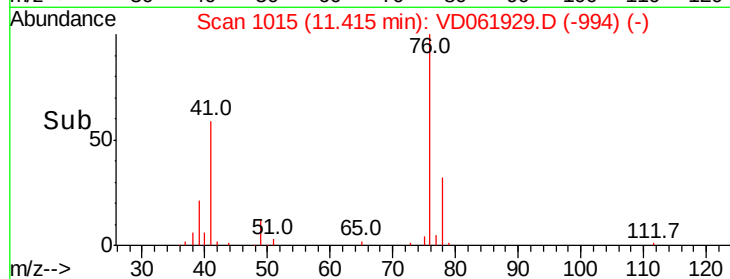
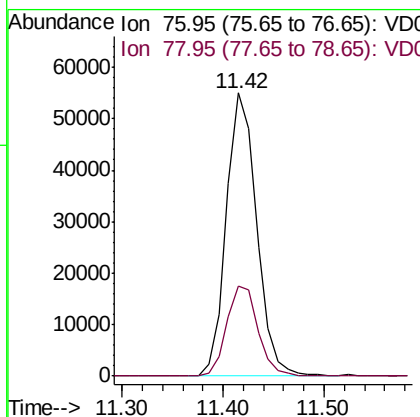
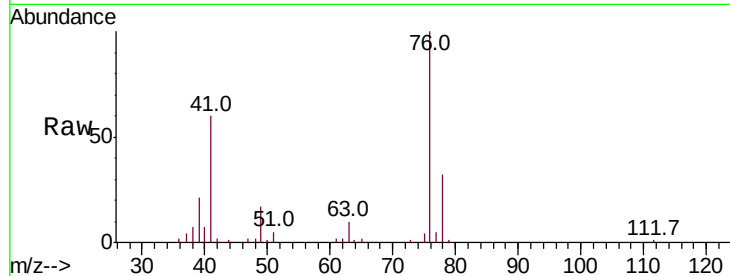
Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion: 76 Resp: 114817

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.2

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:56:26 AM



#58

2-Chloroethyl Vinyl ether

Concen: 132.659 ug/l

RT: 9.87 min Scan# 858

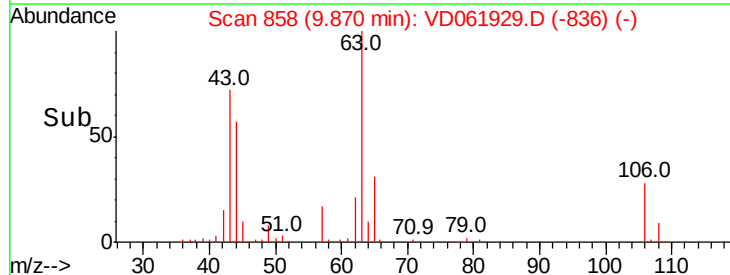
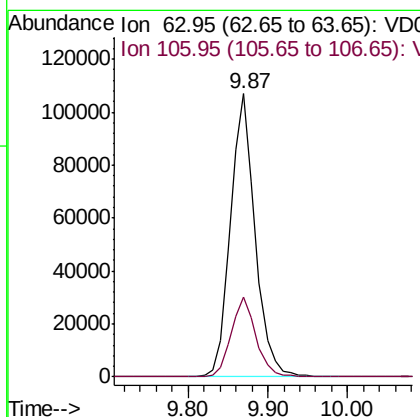
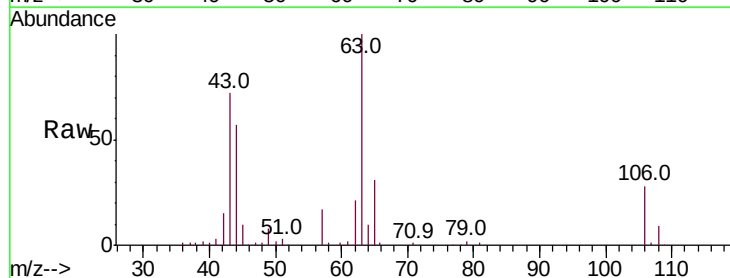
Delta R.T. 0.01 min

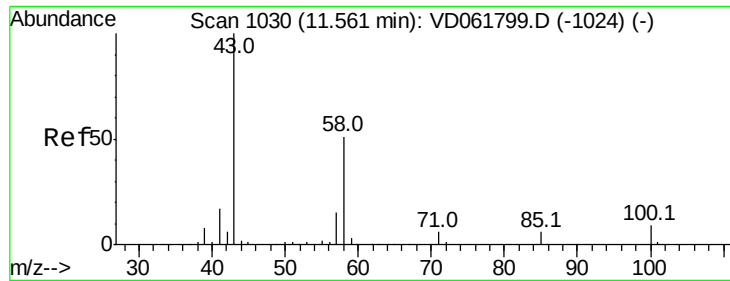
Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion: 63 Resp: 231206

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.6	34.0





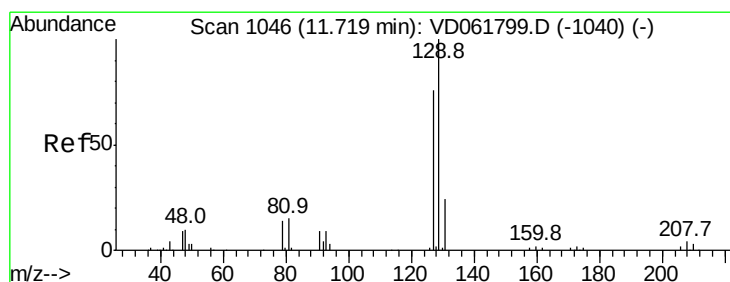
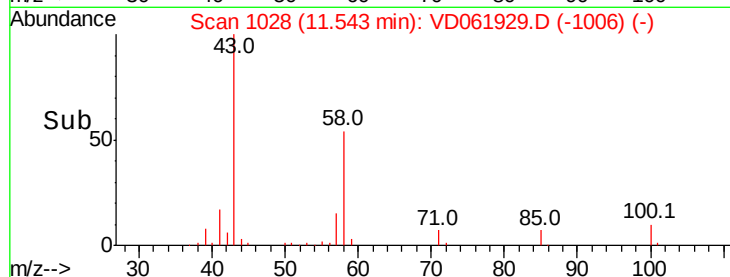
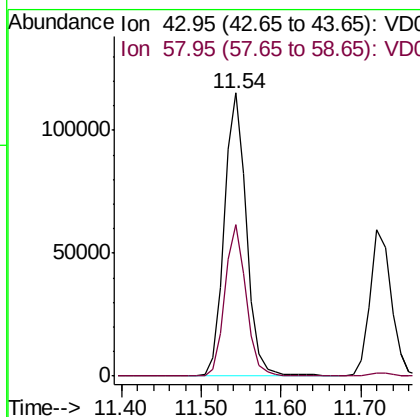
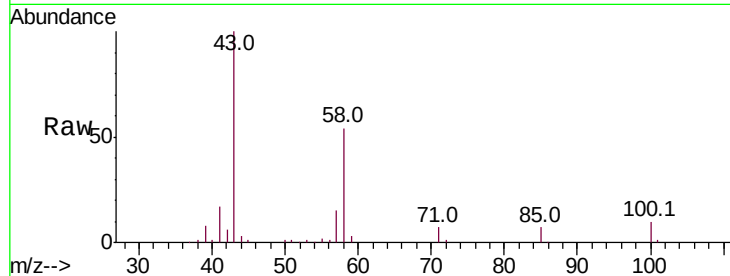
#59
2-Hexanone
Concen: 128.446 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion: 43 Resp: 226285
Ion Ratio Lower Upper
43 100
58 53.7 25.4 76.4

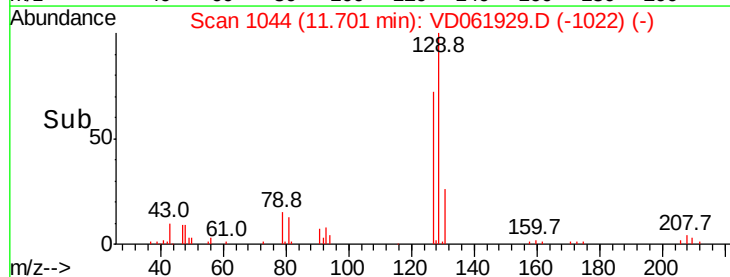
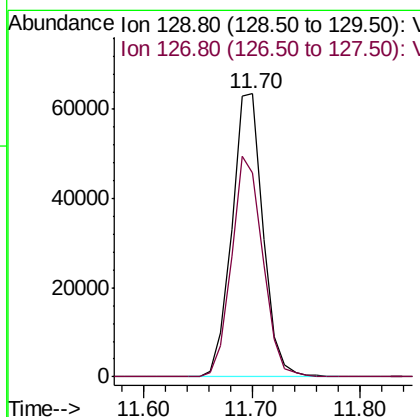
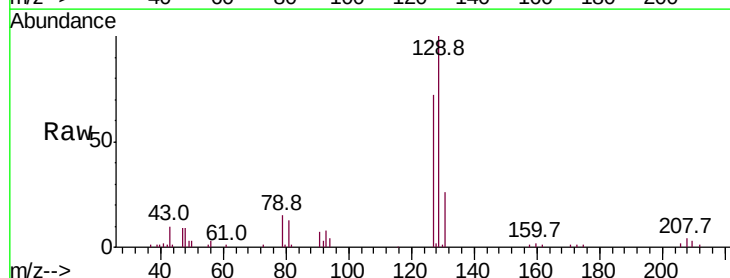
Manual Integrations
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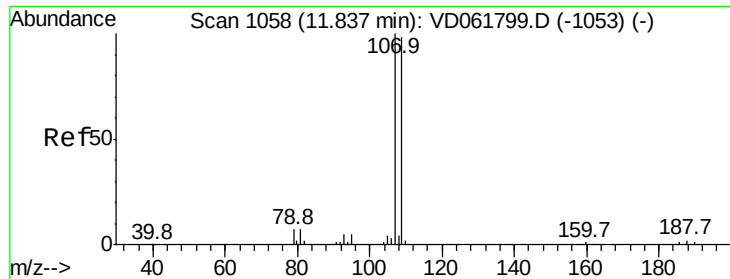
MMDadoda
4/23/2019 6:56:26 AM



#60
Dibromochloromethane
Concen: 23.310 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion: 129 Resp: 127337
Ion Ratio Lower Upper
129 100
127 72.1 38.0 113.9





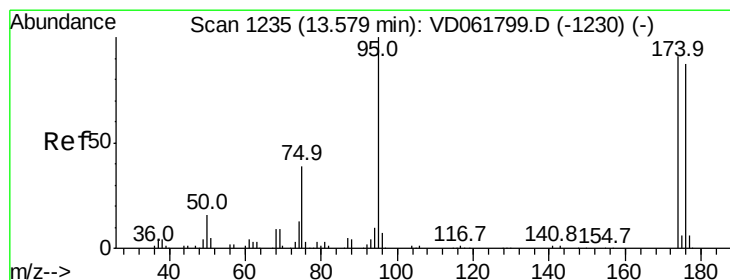
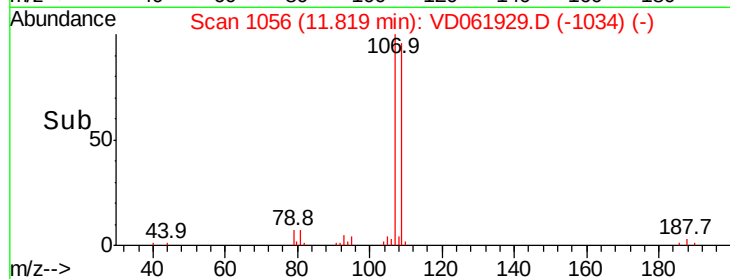
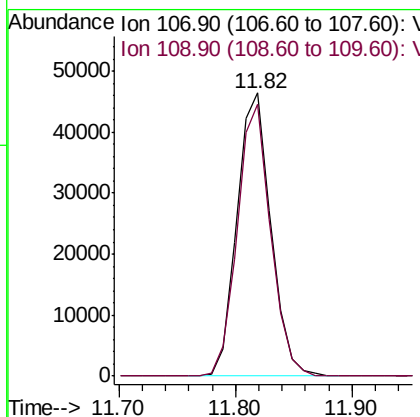
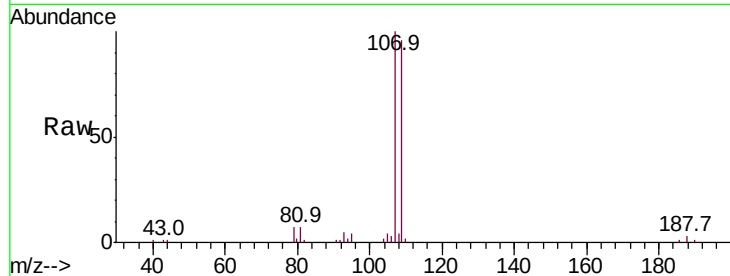
#61
 1,2-Dibromoethane
 Concen: 22.659 ug/l
 RT: 11.82 min Scan# 1056
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.9	78.3	117.5

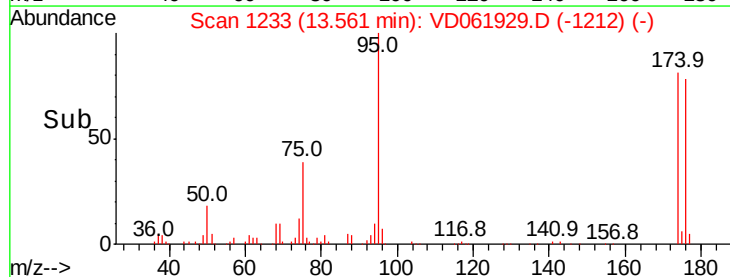
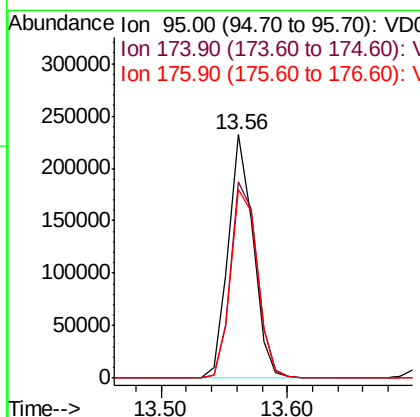
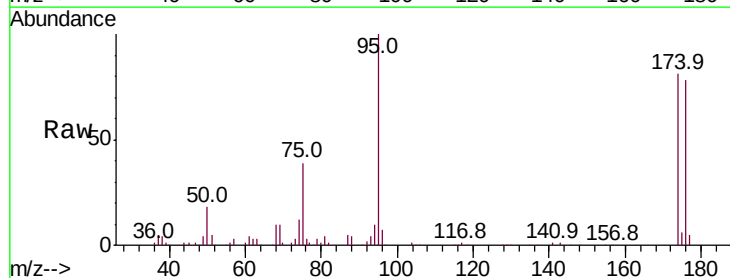
Manual Integrations
 APPROVED

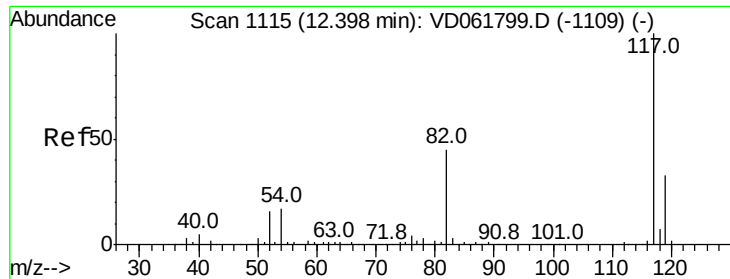
MMDadoda
 4/23/2019 6:56:26 AM



#62
 4-Bromofluorobenzene
 Concen: 55.310 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	80.8	0.0	181.8
176	77.6	0.0	174.4





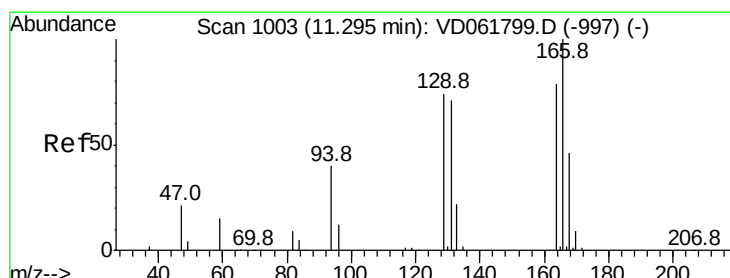
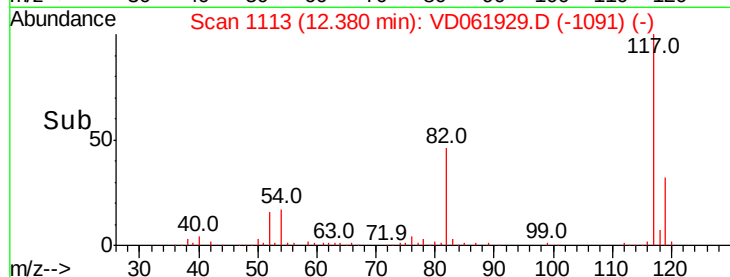
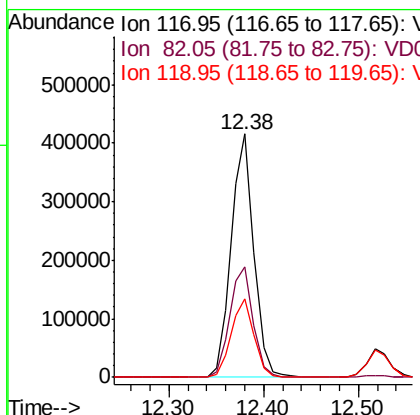
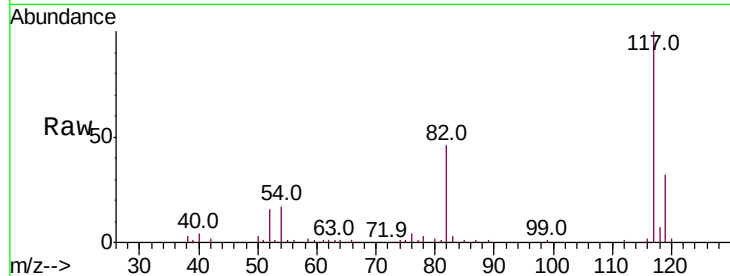
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	45.6	36.2	54.2
119	32.4	26.2	39.4

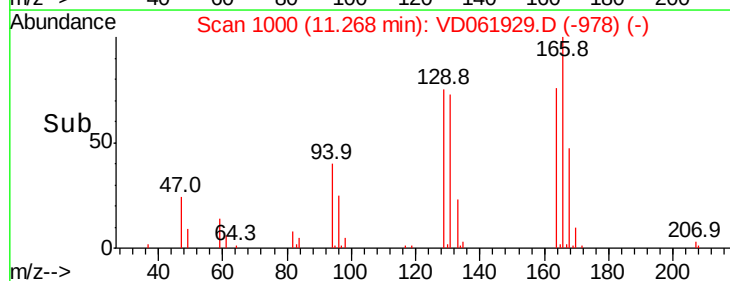
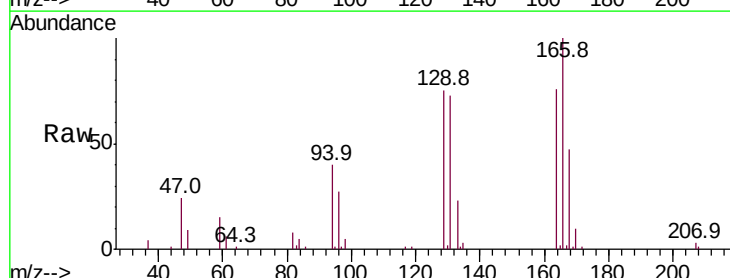
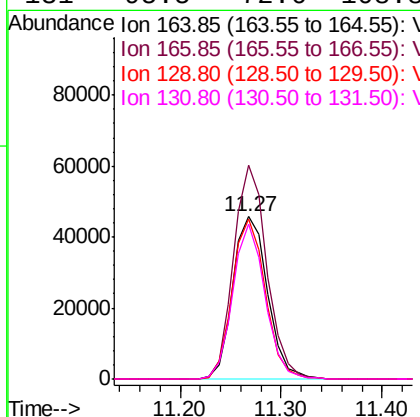
Manual Integrations
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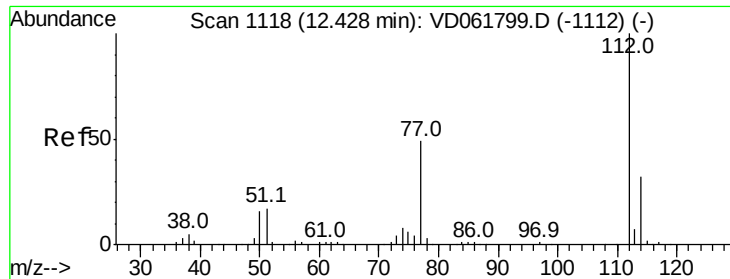
MMDadoda
4/23/2019 6:56:26 AM



#64
Tetrachloroethene
Concen: 21.211 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.5	101.5	152.3
129	98.9	74.6	112.0
131	95.5	72.6	108.8





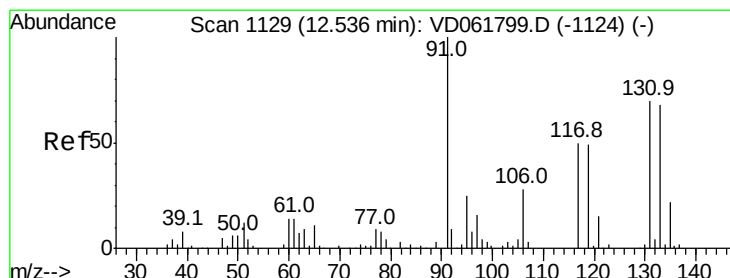
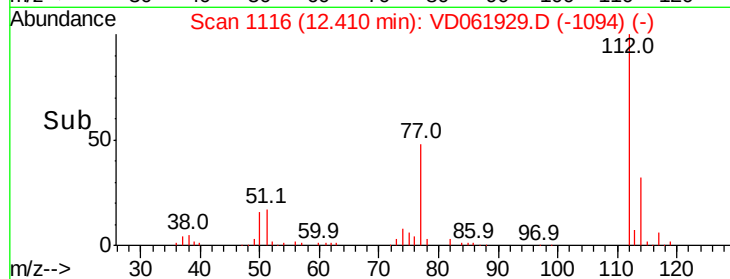
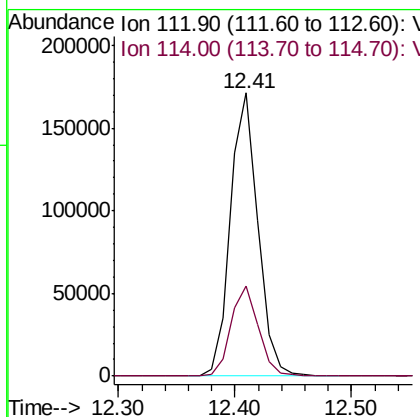
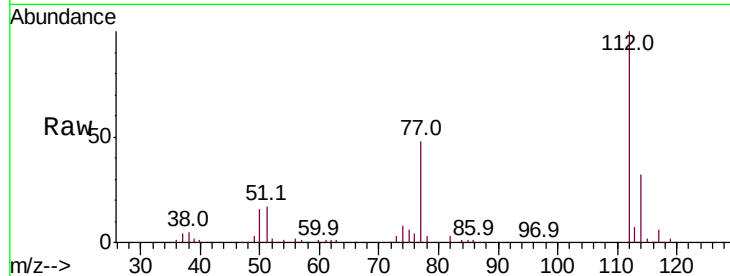
#65
Chlorobenzene
Concen: 21.825 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Resp	Lower	Upper
112	100	279392		
114	31.8	25.8	38.8	

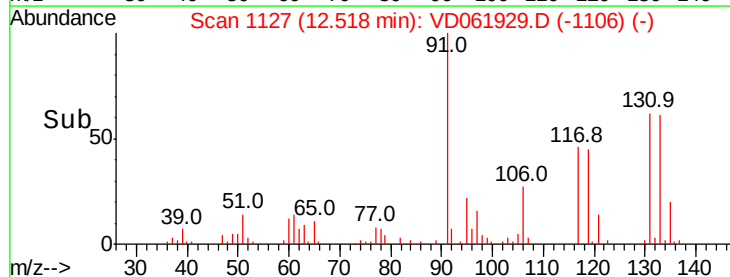
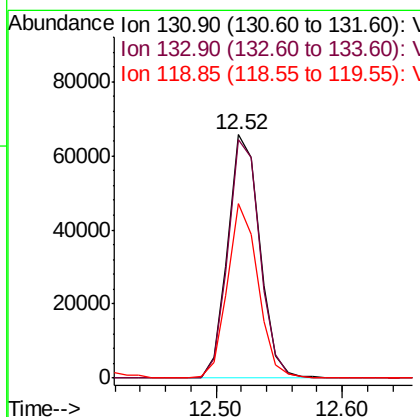
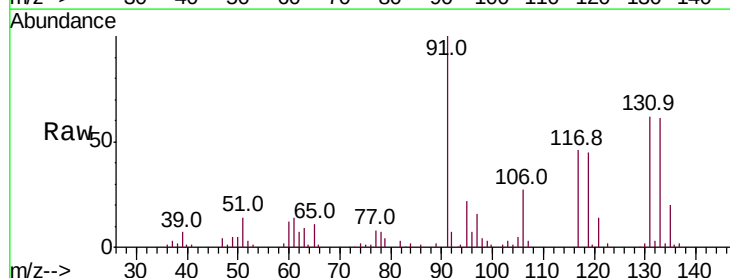
Manual Integrations
APPROVED

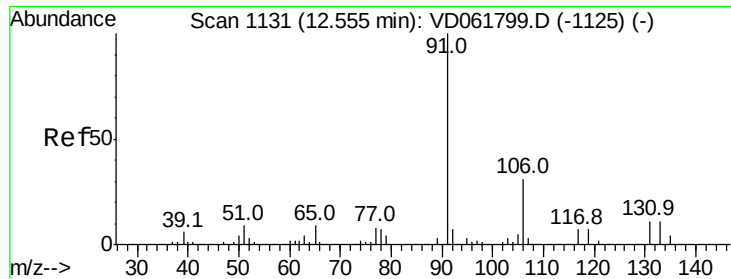
MMDadoda
4/23/2019 6:56:26 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.420 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	114908		
133	97.8	48.6	145.8	
119	71.9	34.7	104.1	





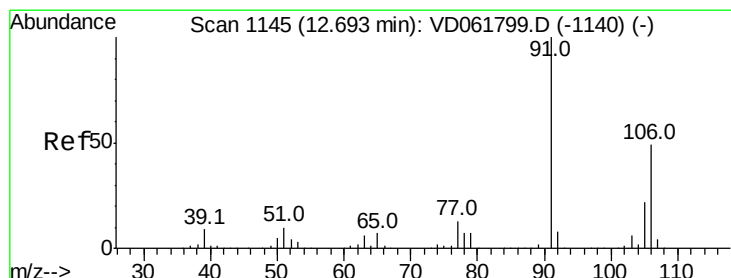
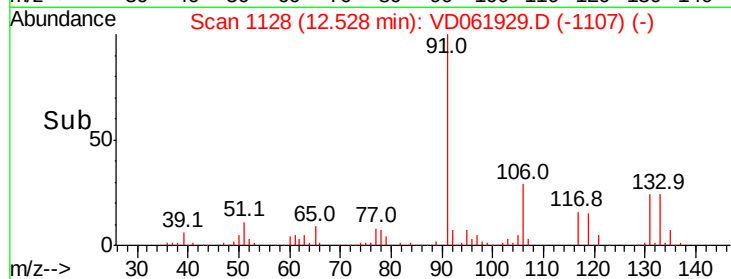
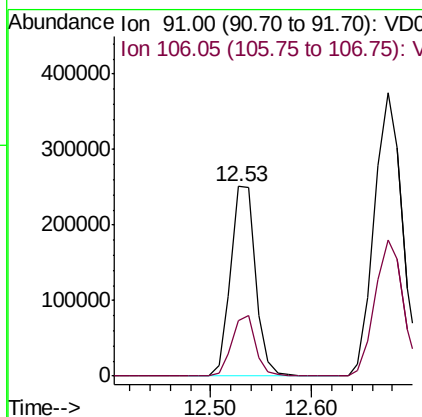
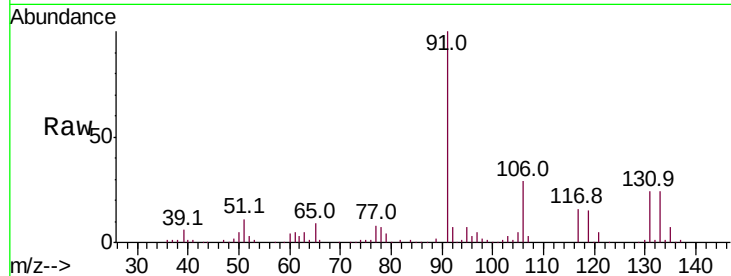
#67
Ethyl Benzene
Concen: 21.013 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion: 91 Resp: 430763
Ion Ratio Lower Upper
91 100
106 29.2 24.7 37.1

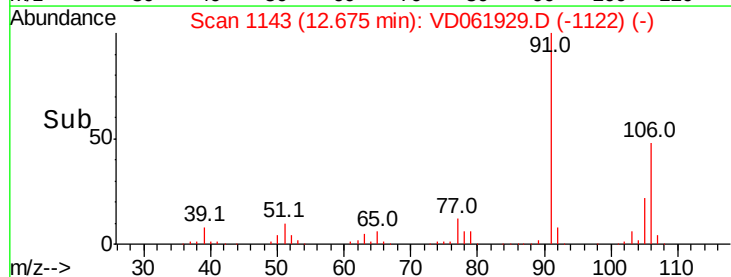
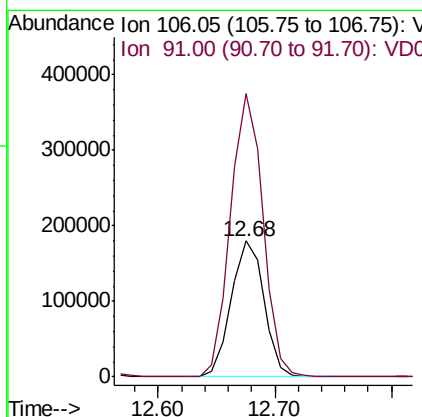
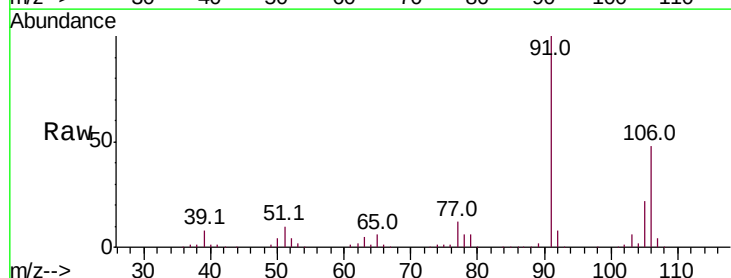
Manual Integrations
APPROVED

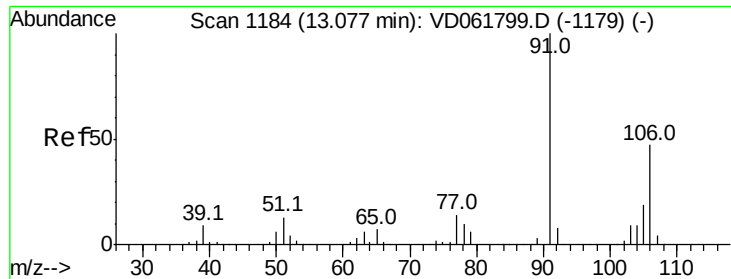
MMDadoda
4/23/2019 6:56:26 AM



#68
m/p-Xylenes
Concen: 45.579 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion:106 Resp: 350981
Ion Ratio Lower Upper
106 100
91 208.4 164.0 246.0





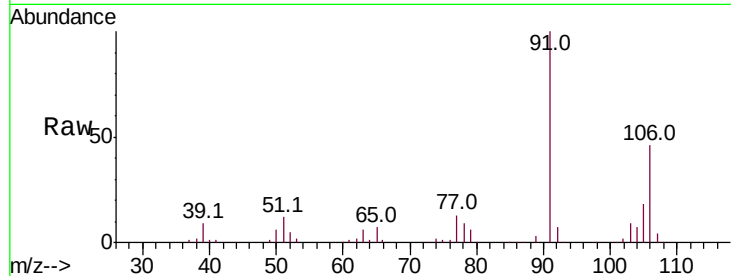
#69
o-Xylene
Concen: 20.744 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

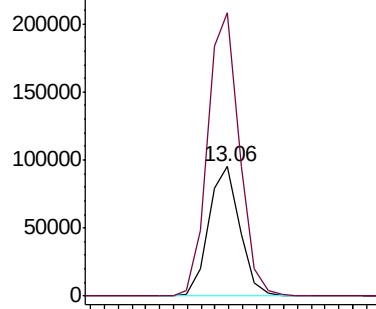
Tot Ion:106 Resp: 150141
Ion Ratio Lower Upper
106 100
91 218.5 106.7 319.9

Manual Integrations
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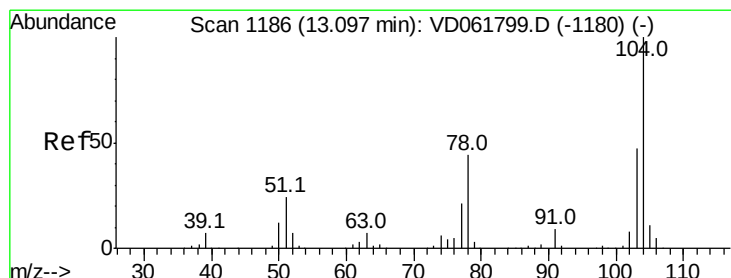
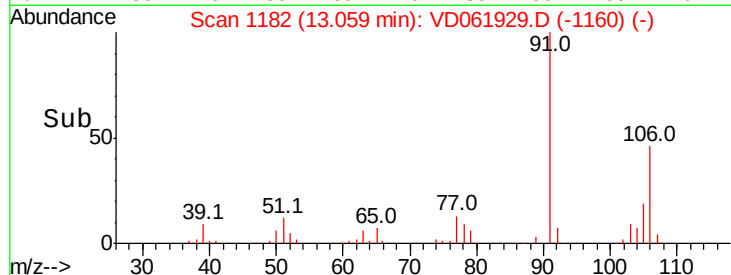
MMDadoda
4/23/2019 6:56:26 AM



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

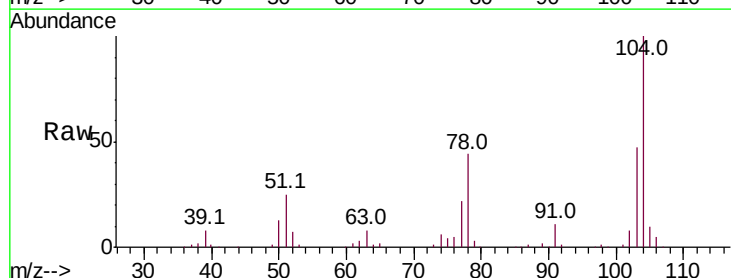


Time-->

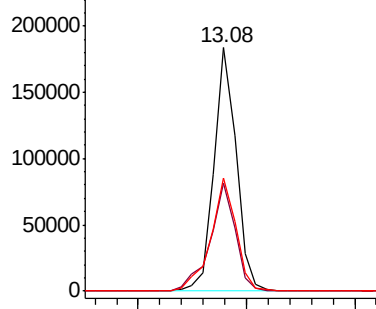


#70
Styrene
Concen: 21.106 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.00 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

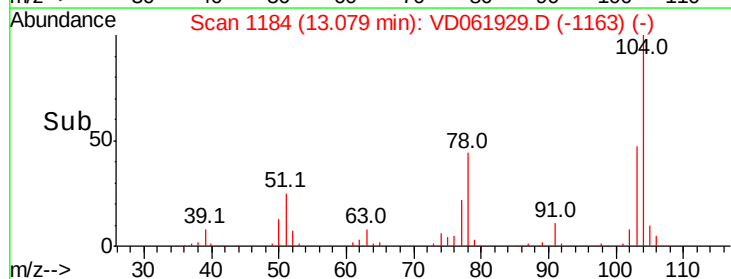
Tgt Ion:104 Resp: 262880
Ion Ratio Lower Upper
104 100
78 44.3 35.4 53.2
103 46.5 37.5 56.3

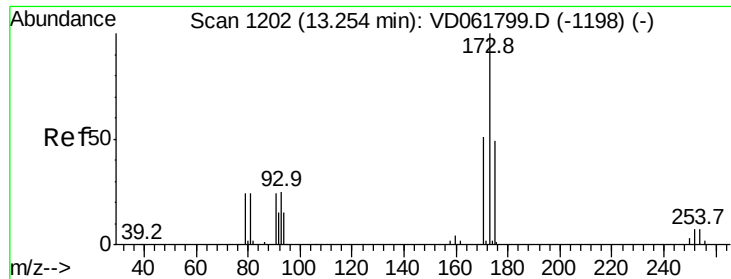


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V



Time-->





#71

Bromoform

Concen: 23.425 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion:173 Resp: 74591

Ion Ratio Lower Upper

173 100

175 47.7 24.4 73.4

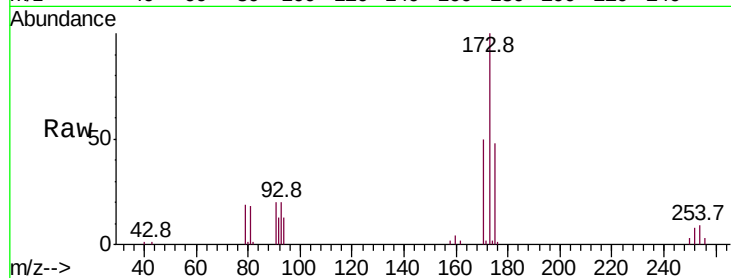
254 9.1 5.4 8.2#

Manual Integrations

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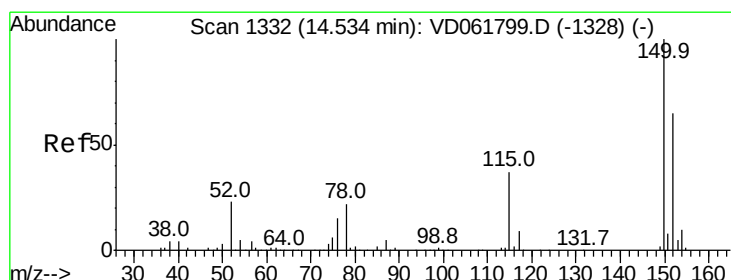
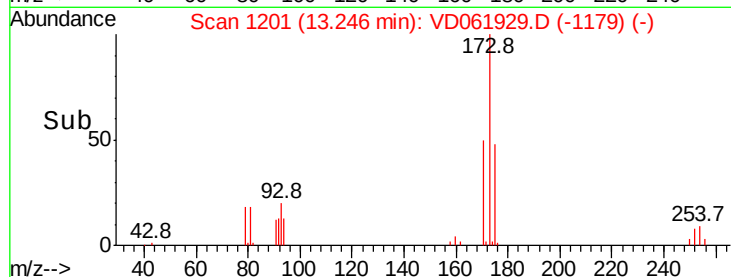
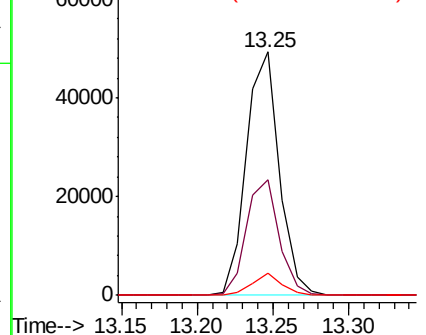
4/23/2019 6:56:26 AM



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

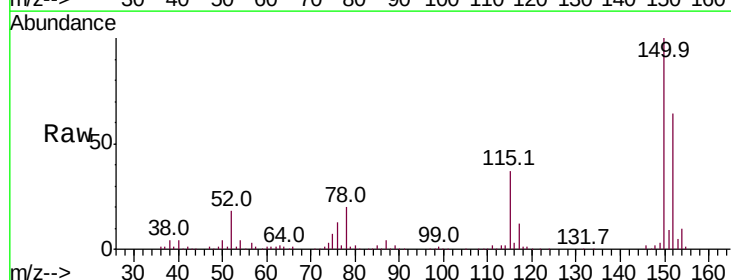
Tgt Ion:152 Resp: 310218

Ion Ratio Lower Upper

152 100

115 58.0 30.9 92.7

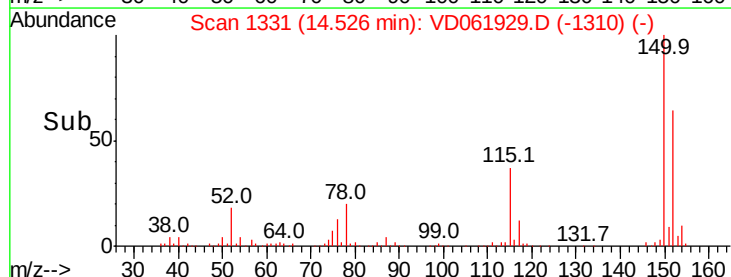
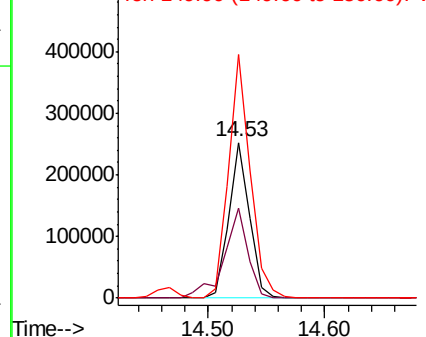
150 156.8 0.0 314.8

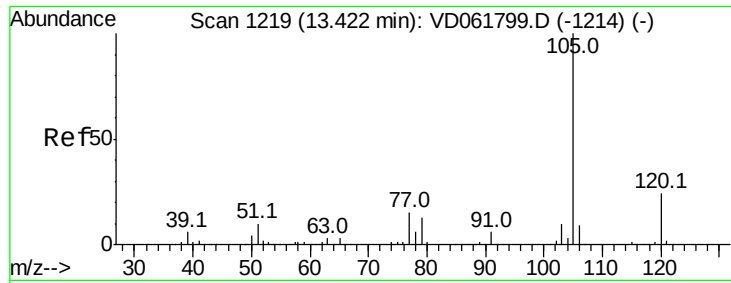


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.851 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 105 Resp: 399369

Ion Ratio Lower Upper

105 100

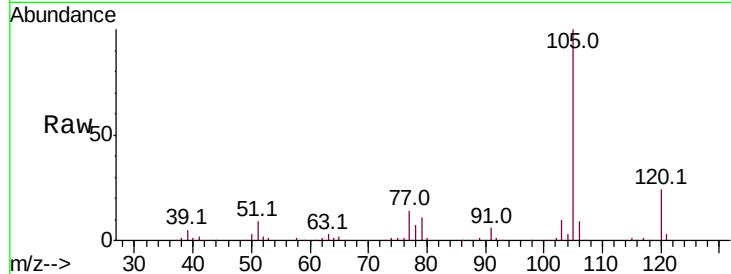
120 24.4 12.0 36.1

Manual Integrations

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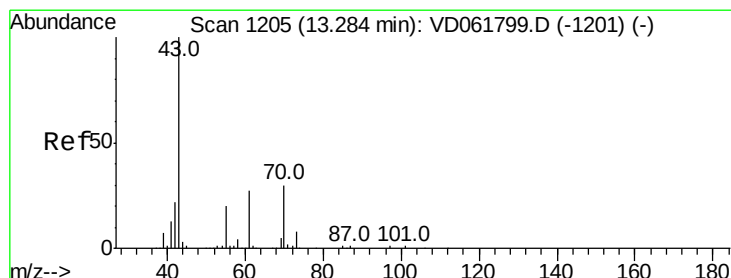
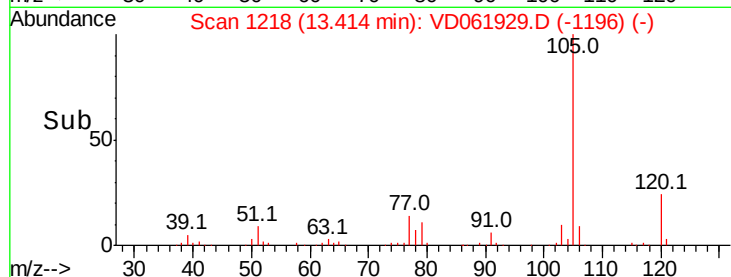
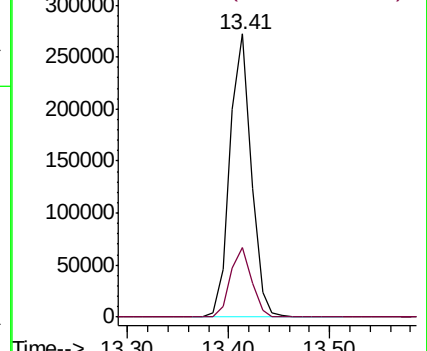
MMDadoda

4/23/2019 6:56:26 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.181 ug/l

RT: 13.28 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion: 43 Resp: 114591

Ion Ratio Lower Upper

43 100

70 31.9 24.2 36.4

55 18.8 16.0 24.0

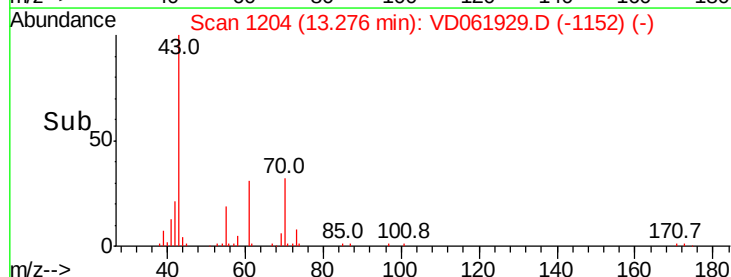
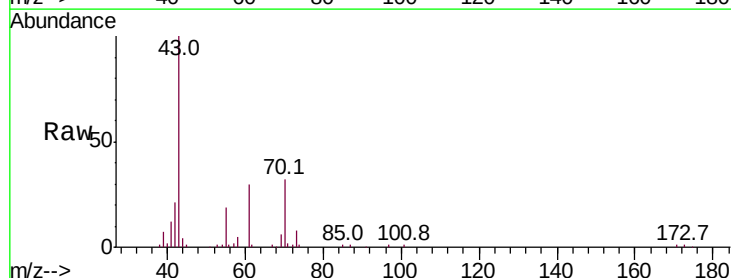
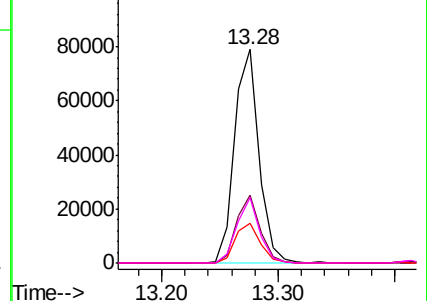
61 30.4 21.6 32.4

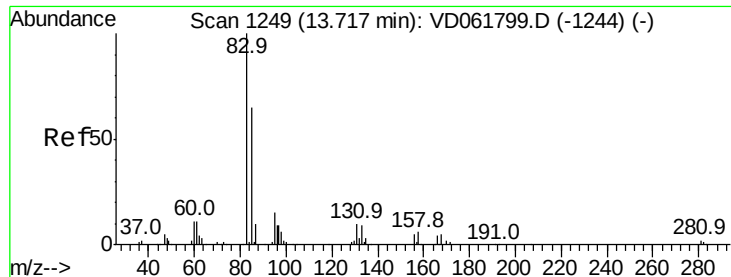
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 24.368 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

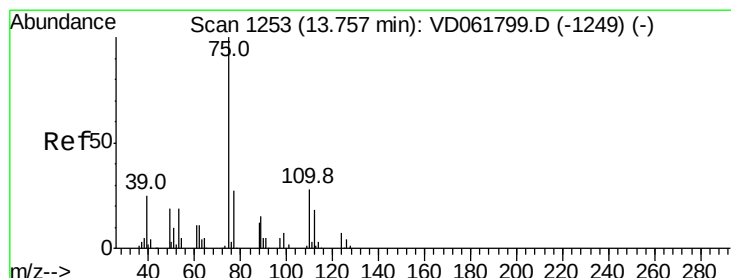
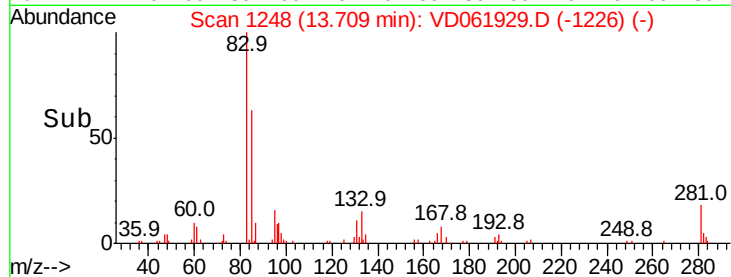
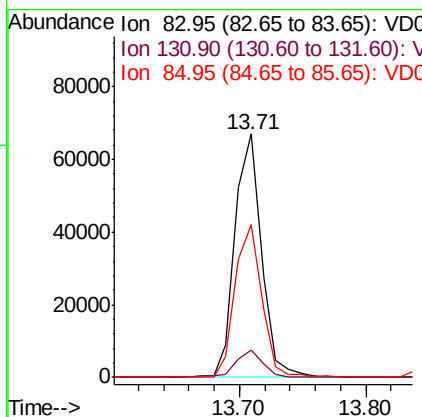
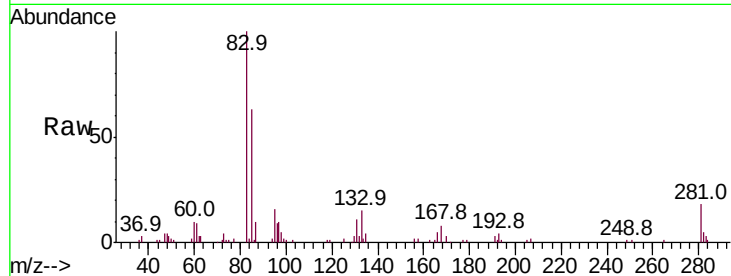
ClientSampleId :

VD9419SBS02

Tot Ion:	83	Resp:	96908
Ion Ratio	Lower	Upper	
83	100		
131	11.1	5.0	14.9
85	62.9	32.6	97.7

Manual Integrations
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4/23/2019 6:56:26 AM



#76

1,2,3-Trichloropropane

Concen: 22.649 ug/l

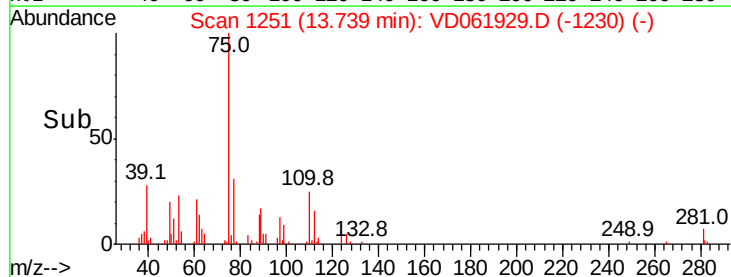
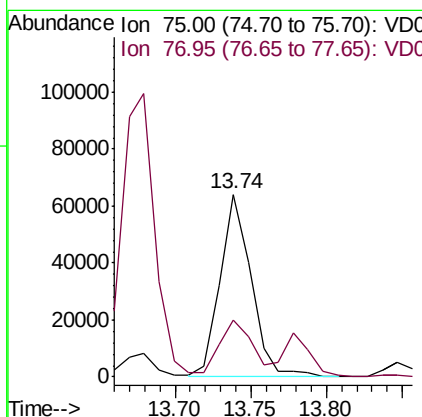
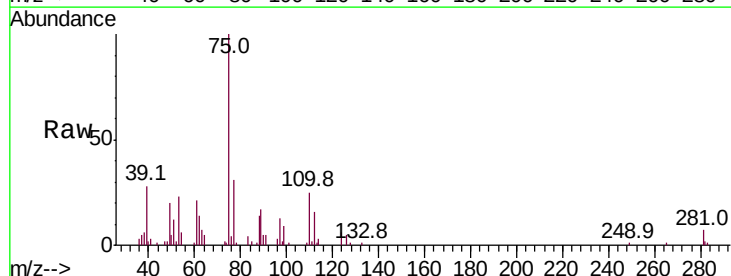
RT: 13.74 min Scan# 1251

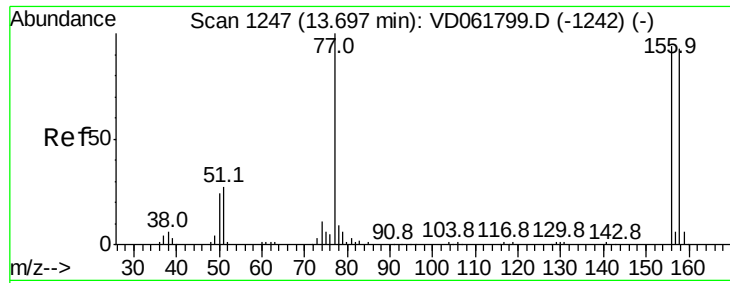
Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion:	75	Resp:	92271
Ion Ratio	Lower	Upper	
75	100		
77	31.3	16.4	49.4





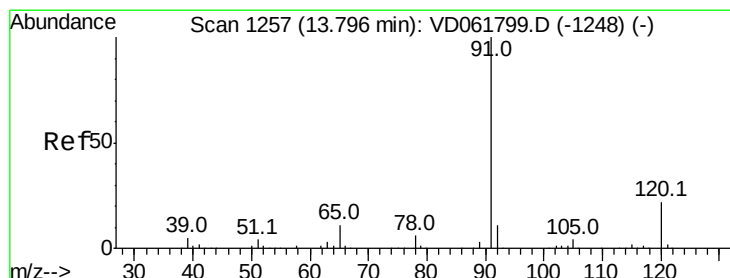
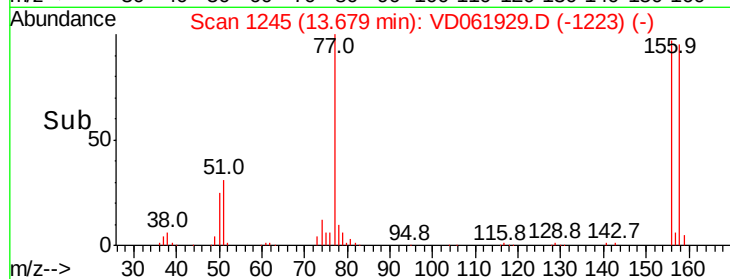
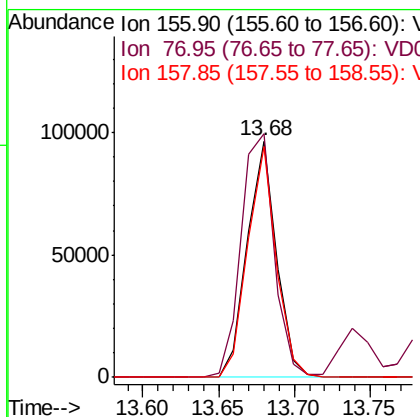
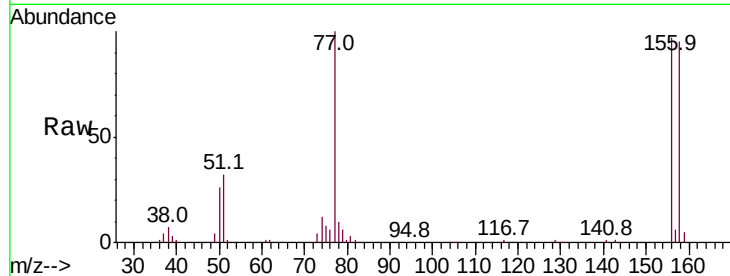
#77
Bromobenzene
Concen: 22.766 ug/l
RT: 13.68 min Scan# 1245
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Lower	Upper
156	100		
77	103.0	53.1	159.4
158	97.7	49.4	148.0

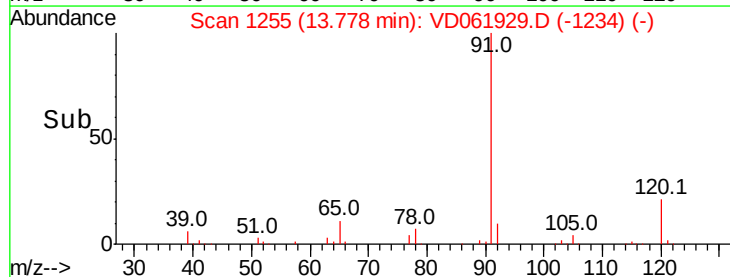
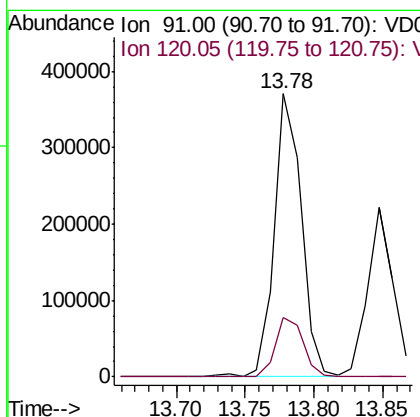
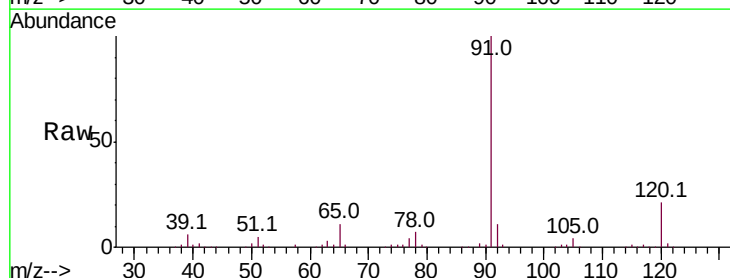
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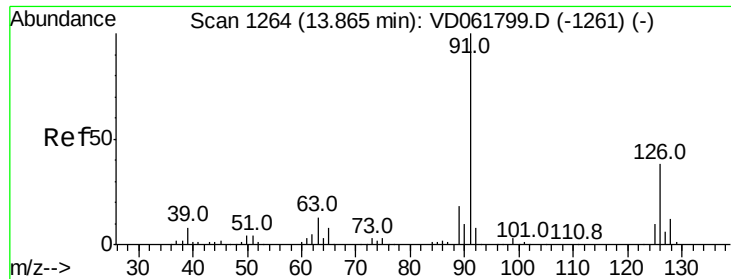
MMDadoda
4/23/2019 6:56:26 AM



#78
n-propylbenzene
Concen: 21.676 ug/l
RT: 13.78 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.8	11.1	33.1





#79

2-Chlorotoluene

Concen: 21.101 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

ClientSampleId :

VD9419SBS02

Tot Ion: 91 Resp: 286525

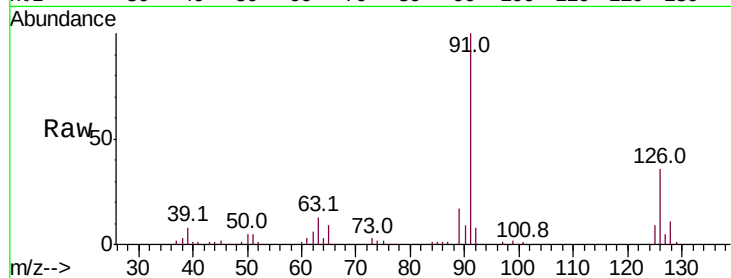
Ion Ratio Lower Upper

91 100

126 35.6 18.6 55.8

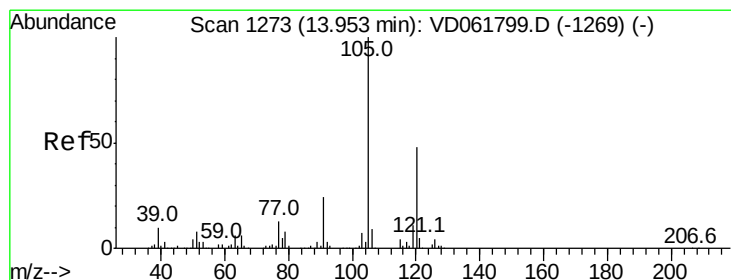
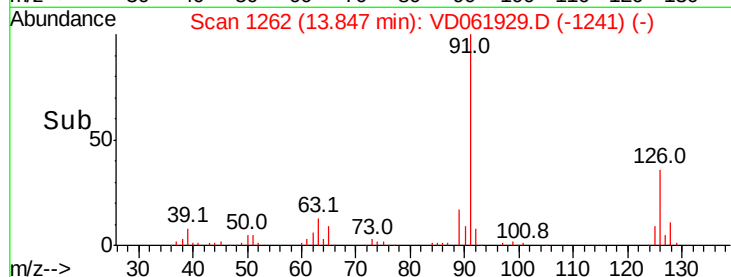
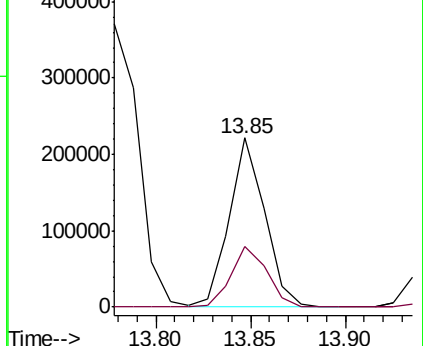
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 23.158 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD061929.D

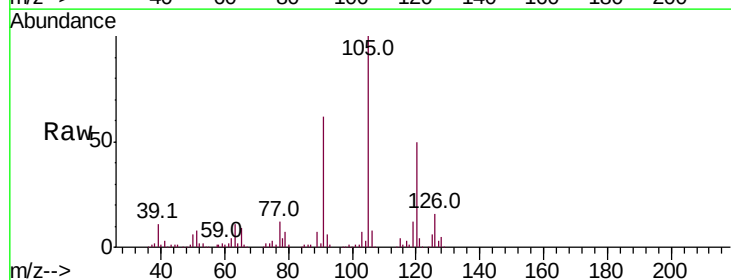
Acq: 20 Apr 2019 4:00

Tgt Ion:105 Resp: 369678

Ion Ratio Lower Upper

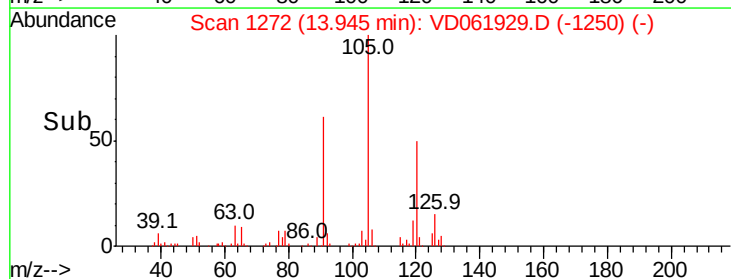
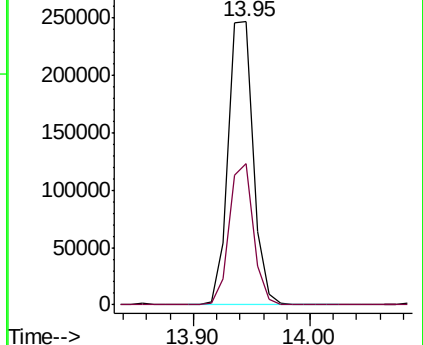
105 100

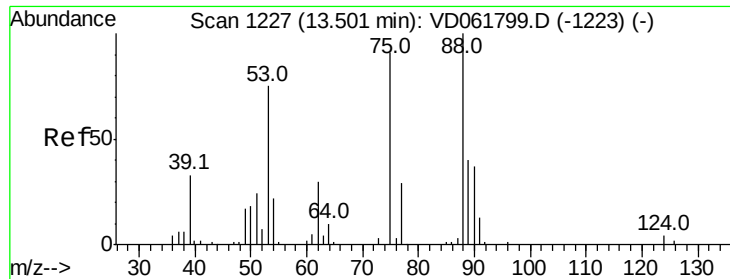
120 49.9 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 21.642 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

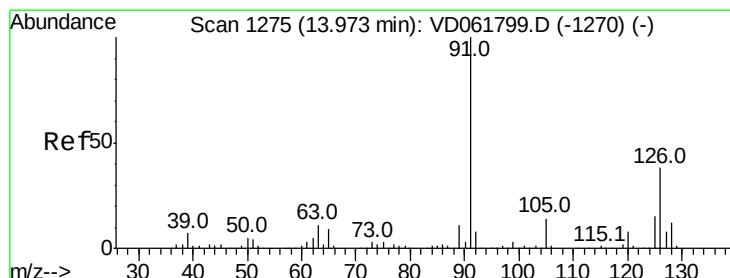
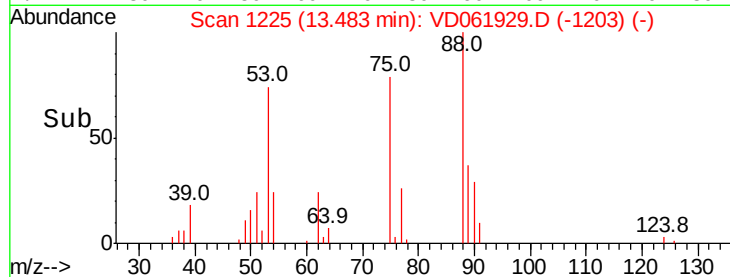
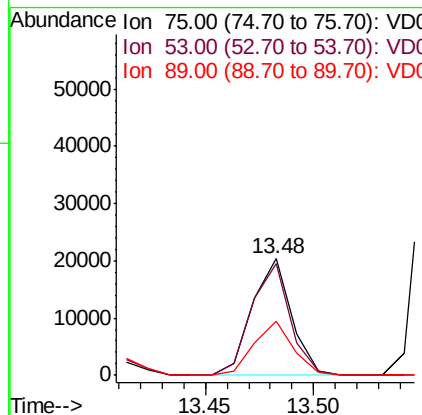
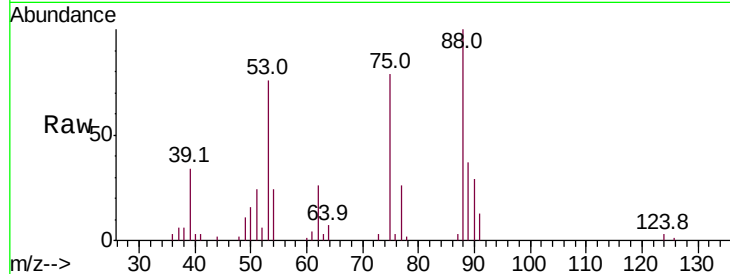
ClientSampleId :

VD9419SBS02

Tot Ion:	75	Resp:	25913
Ion Ratio	Lower	Upper	
75	100		
53	96.2	65.8	98.8
89	46.5	35.0	52.6

Manual Integrations
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#82

4-Chlorotoluene

Concen: 22.495 ug/l

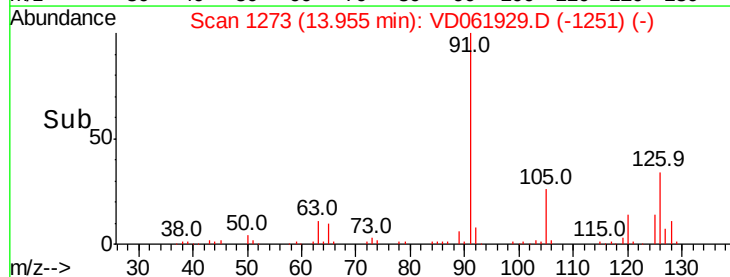
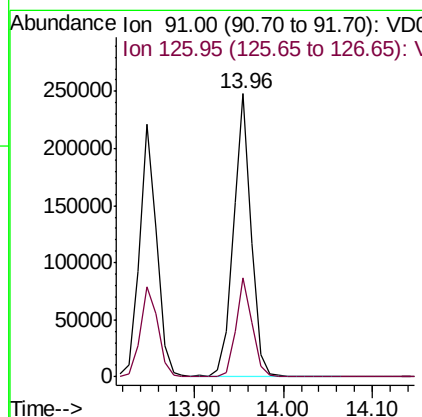
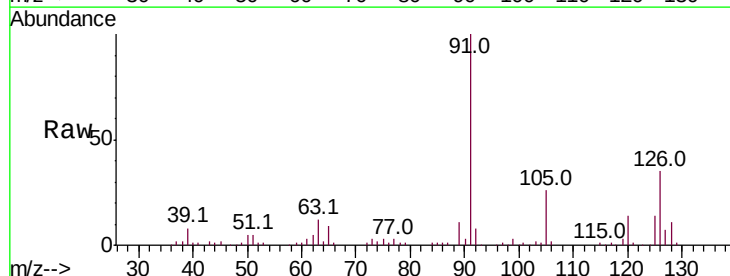
RT: 13.96 min Scan# 1273

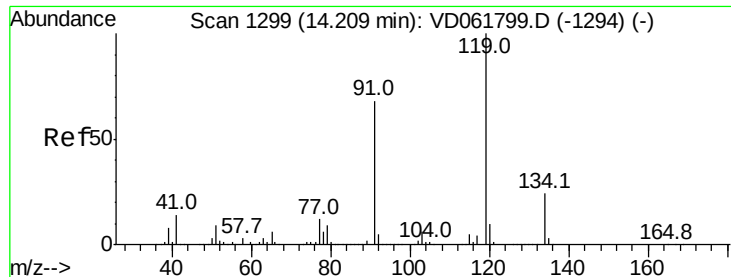
Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion:	91	Resp:	349622
Ion Ratio	Lower	Upper	
91	100		
126	34.8	19.1	57.5





#83

tert-Butylbenzene

Concen: 21.362 ug/l

RT: 14.20 min Scan# 1298

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

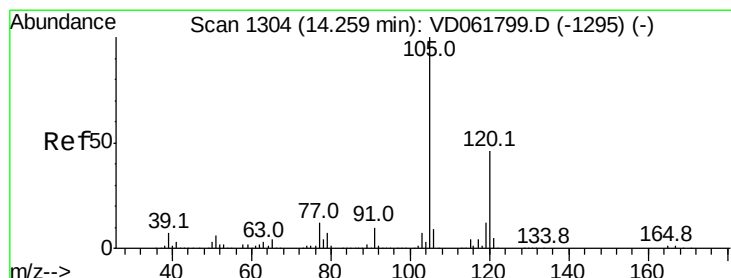
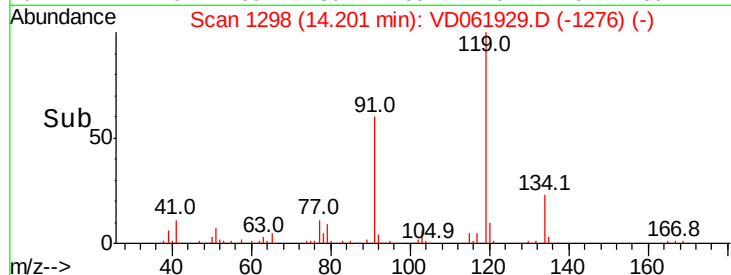
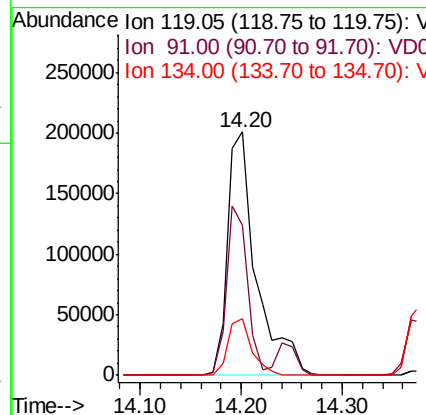
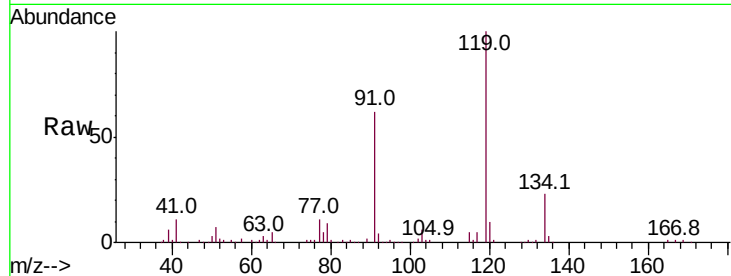
ClientSampleId :

VD9419SBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.7	34.2	102.6
134	23.4	12.0	36.0

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 22.575 ug/l

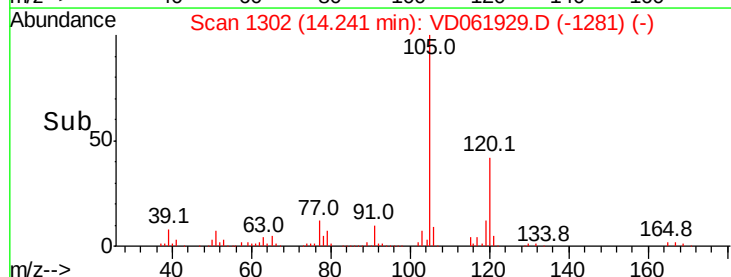
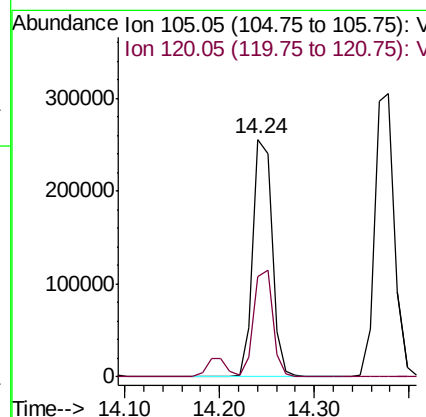
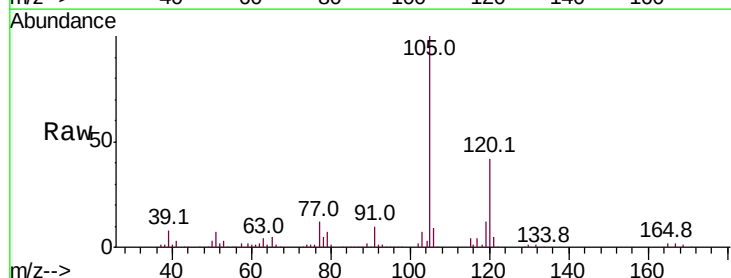
RT: 14.24 min Scan# 1302

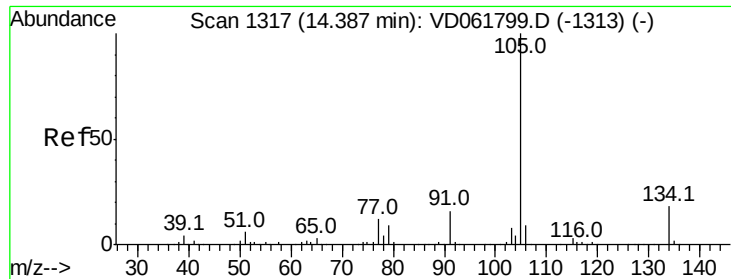
Delta R.T. 0.00 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.3	23.1	69.2





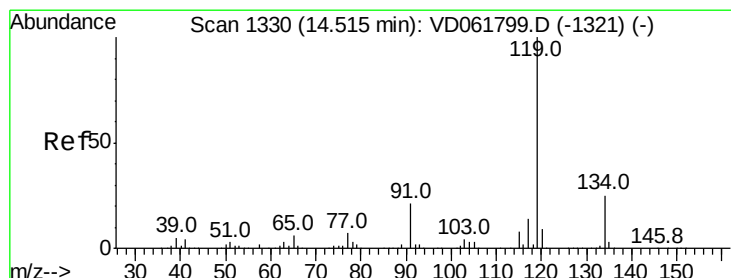
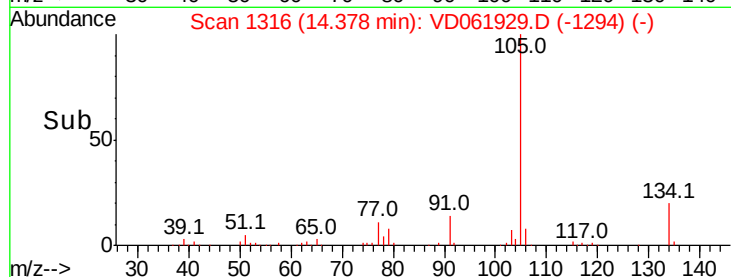
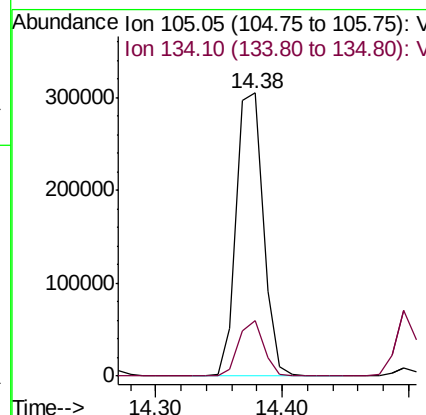
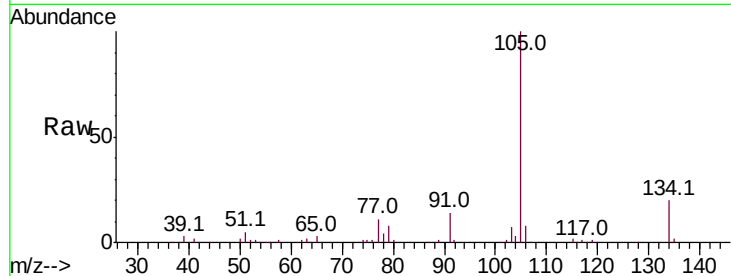
#85
 sec-Butylbenzene
 Concen: 23.095 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Tot Ion:105 Resp: 447503
 Ion Ratio Lower Upper
 105 100
 134 19.5 8.9 26.7

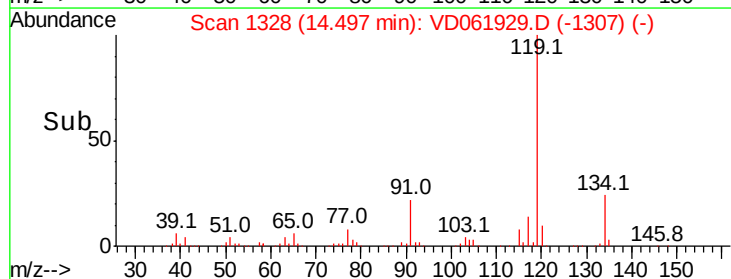
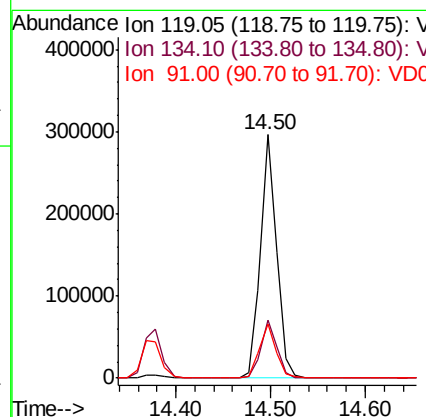
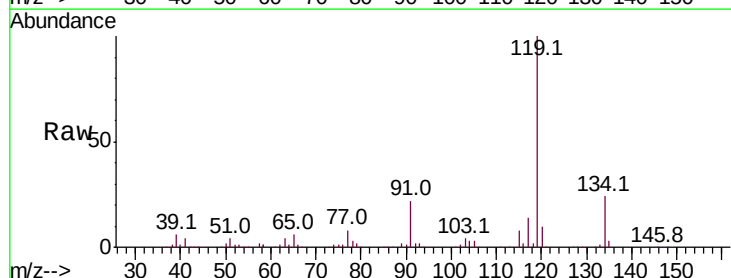
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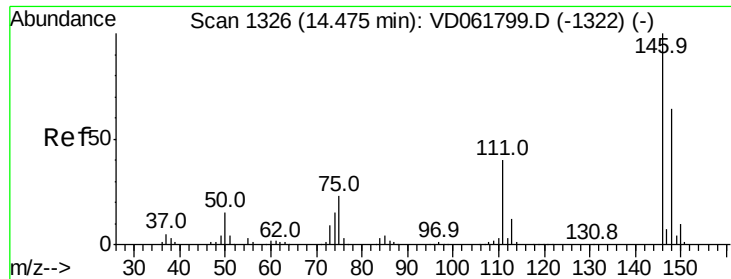
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#86
 p-Isopropyltoluene
 Concen: 19.331 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.00 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion:119 Resp: 350477
 Ion Ratio Lower Upper
 119 100
 134 23.9 12.8 38.3
 91 22.3 10.7 32.1





#87

1,3-Dichlorobenzene

Concen: 21.784 ug/l

RT: 14.47 min Scan# 1325

Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Instrument :

MSVOA_D

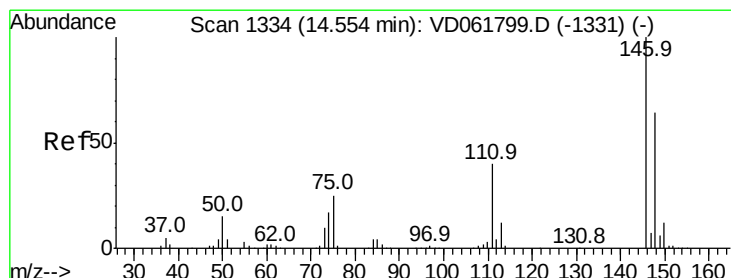
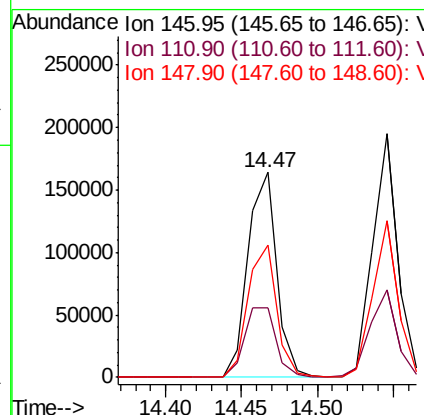
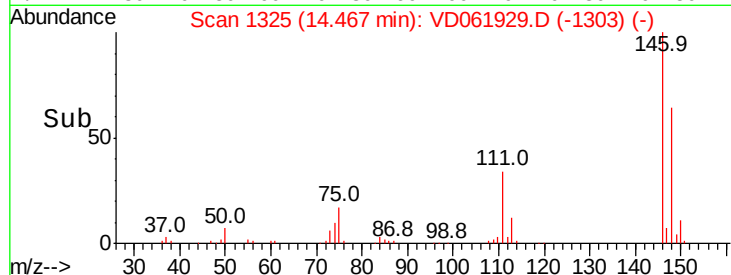
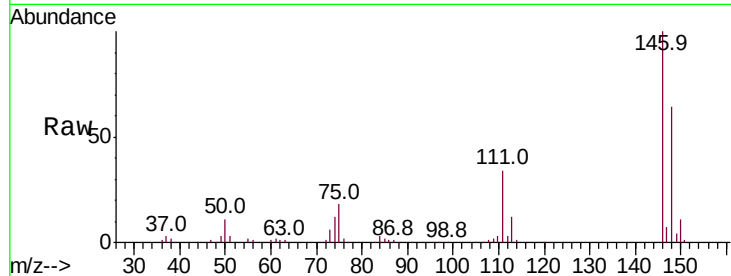
ClientSampleID :

VD9419SBS02

Tot Ion:	146	Resp:	217336
Ion Ratio	Lower	Upper	
146	100		
111	33.7	20.0	60.0
148	64.4	31.8	95.4

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 22.832 ug/l

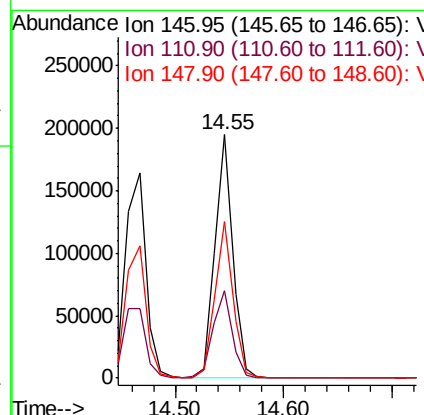
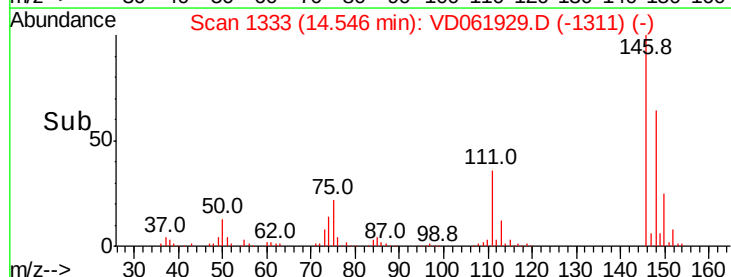
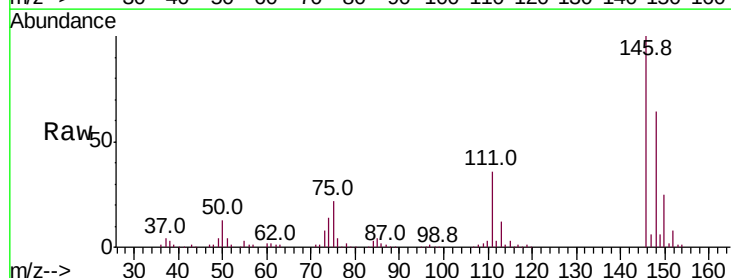
RT: 14.55 min Scan# 1333

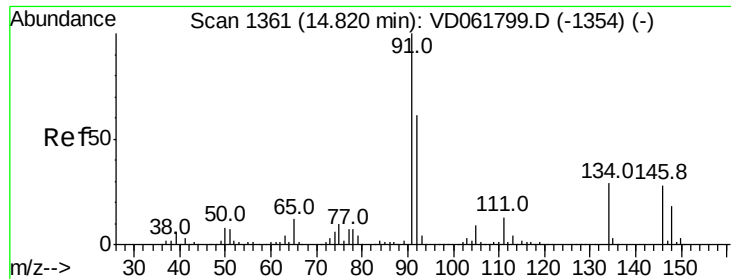
Delta R.T. 0.01 min

Lab File: VD061929.D

Acq: 20 Apr 2019 4:00

Tgt Ion:	146	Resp:	225174
Ion Ratio	Lower	Upper	
146	100		
111	36.1	20.2	60.5
148	64.3	32.0	96.2





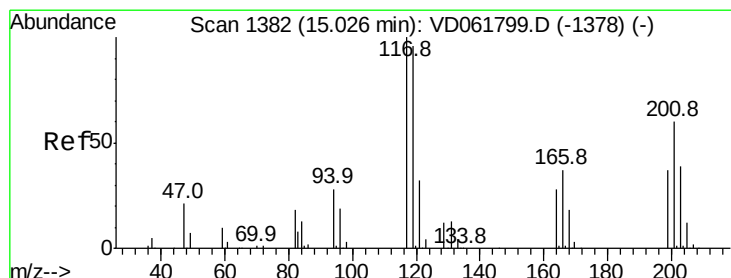
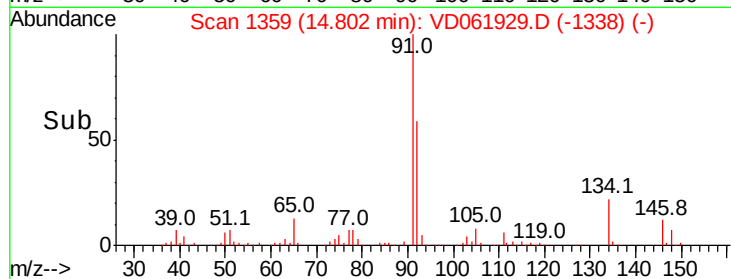
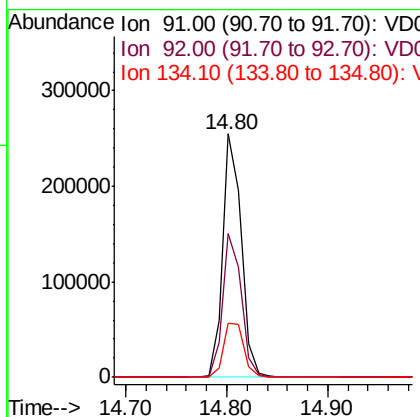
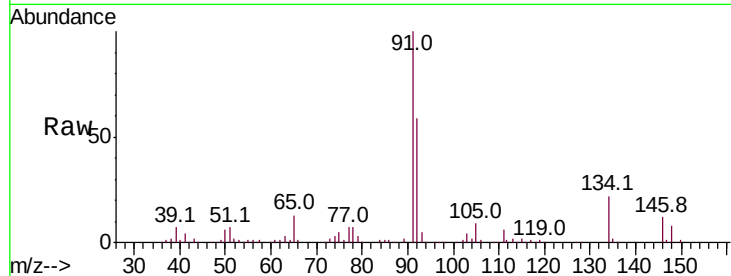
#89
n-Butylbenzene
Concen: 20.477 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.2	30.3	91.0
134	22.2	14.5	43.6

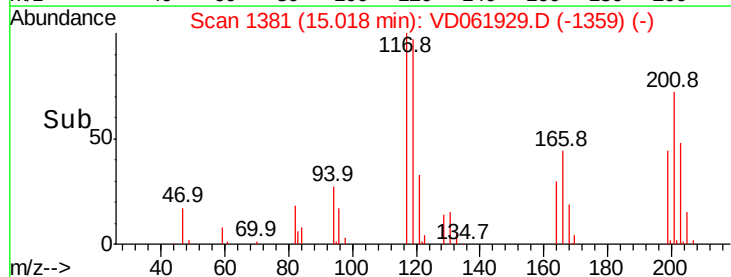
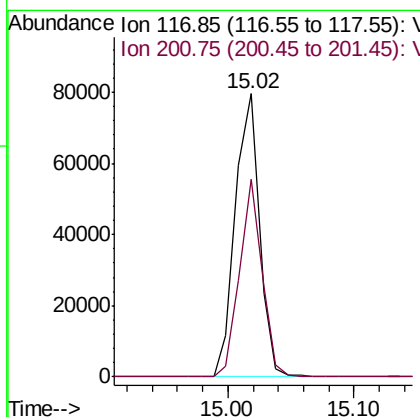
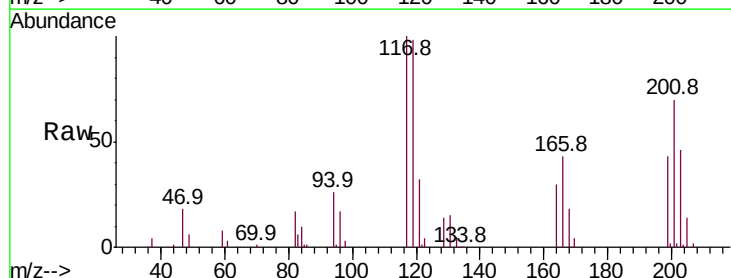
Manual Integrations
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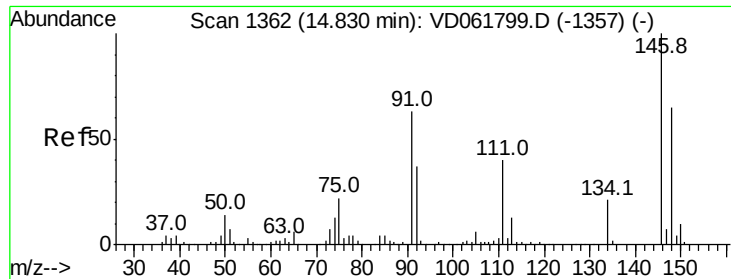
MMDadoda
4/23/2019 6:56:26 AM



#90
Hexachloroethane
Concen: 21.256 ug/l
RT: 15.02 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.9	30.2	90.6





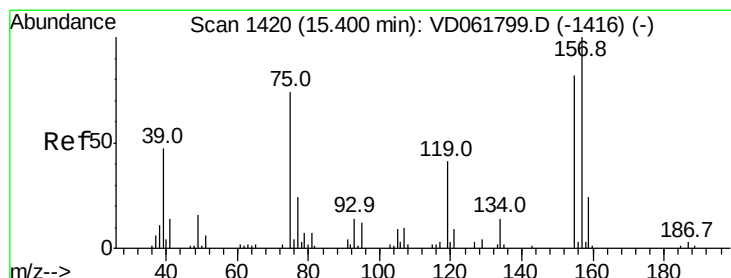
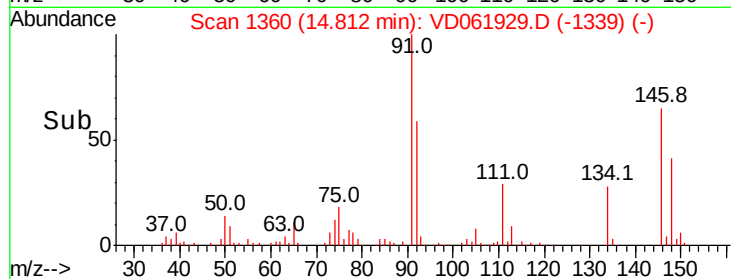
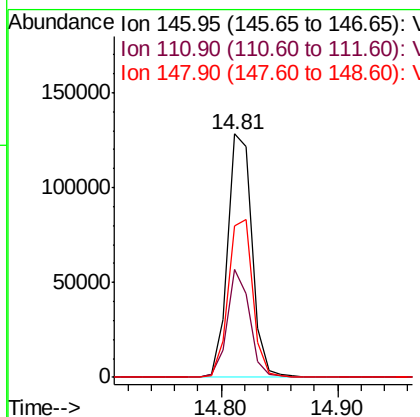
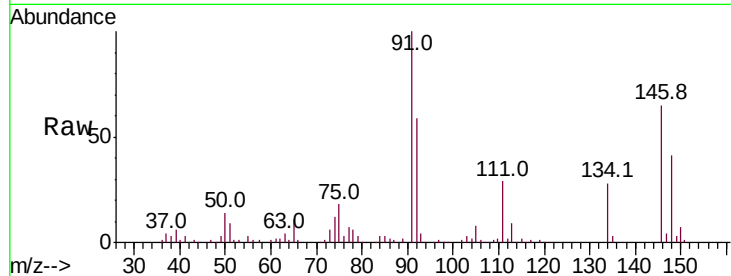
#91
 1,2-Dichlorobenzene
 Concen: 22.189 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.6	20.0	59.9
148	62.3	32.3	96.8

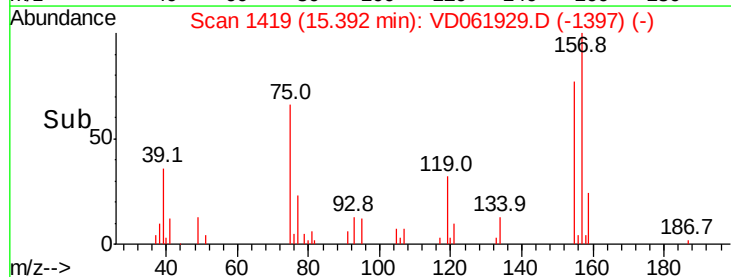
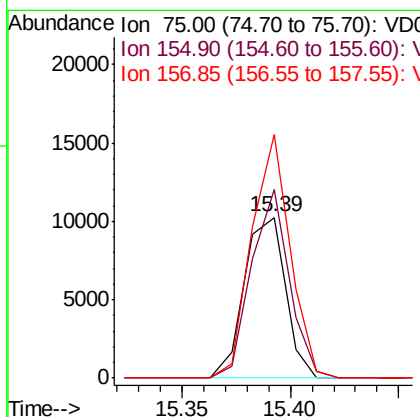
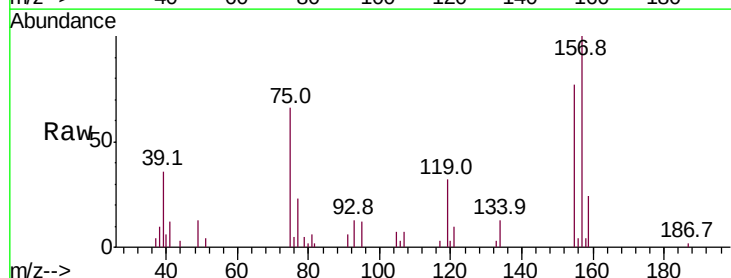
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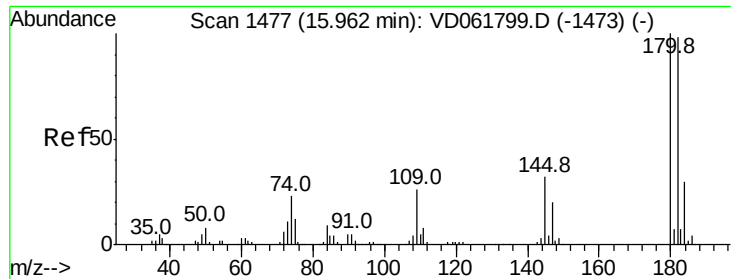
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 27.452 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	117.3	55.3	165.8
157	151.4	67.8	203.2





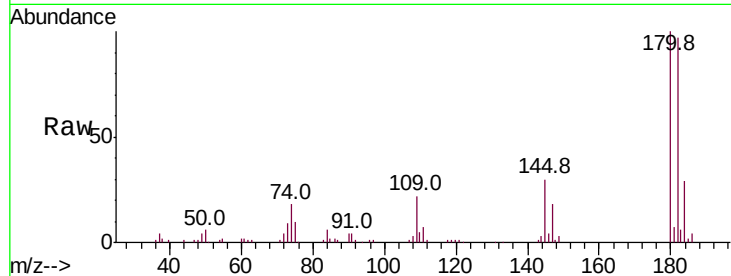
#93
 1,2,4-Trichlorobenzene
 Concen: 23.200 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD9419SBS02

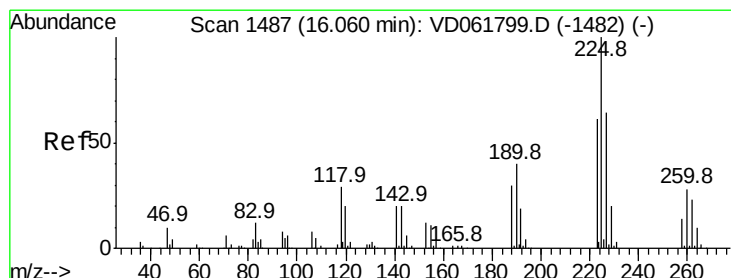
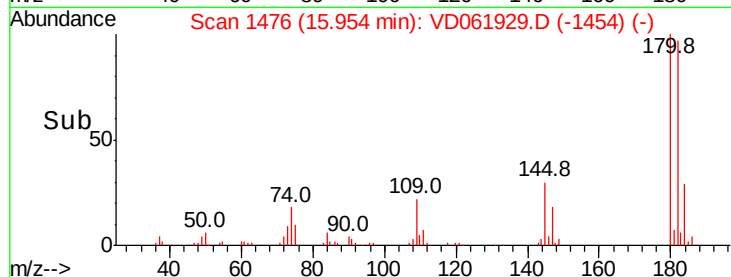
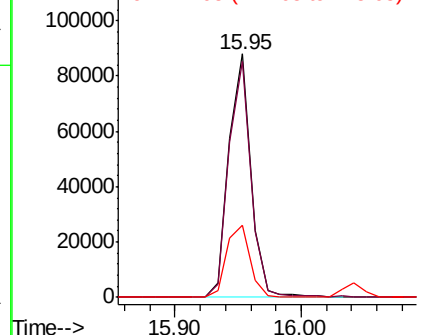
Tot Ion	Ratio	Resp	Lower	Upper
180	100	106488		
182	96.7	49.3	147.8	
145	29.6	16.2	48.6	

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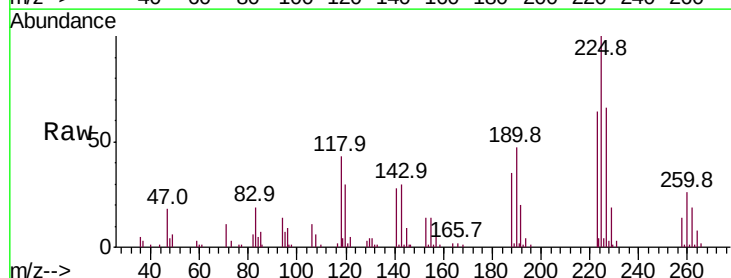


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

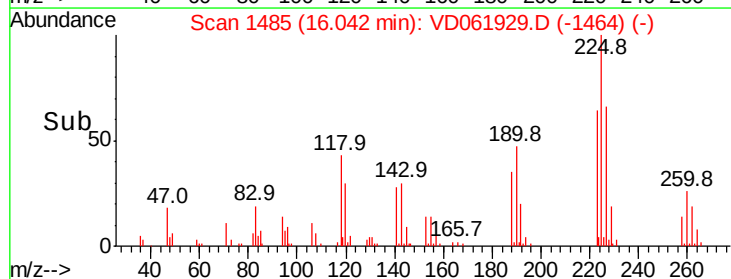
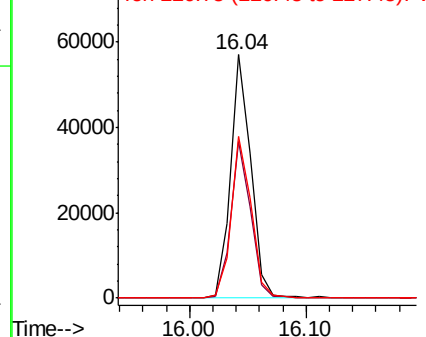


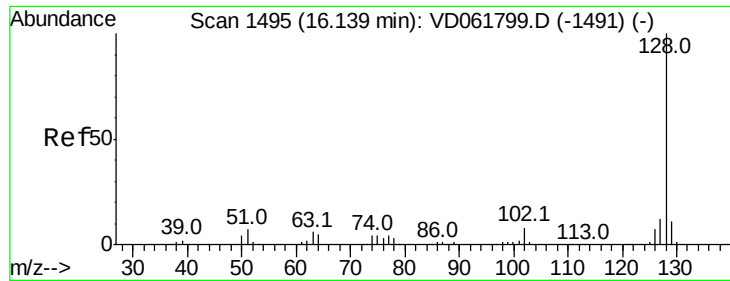
#94
 Hexachlorobutadiene
 Concen: 20.807 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VD061929.D
 Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	69210		
223	64.4	30.6	92.0	
227	66.4	32.0	96.2	



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





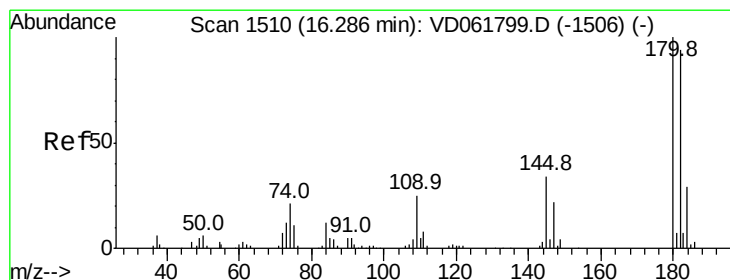
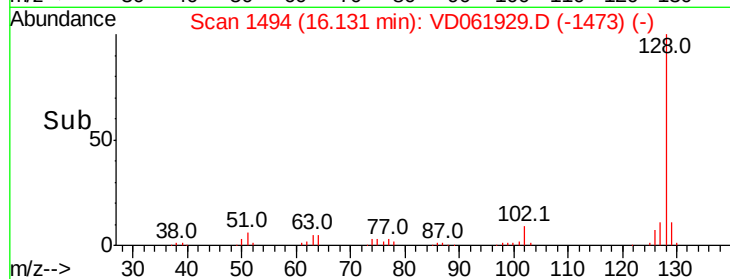
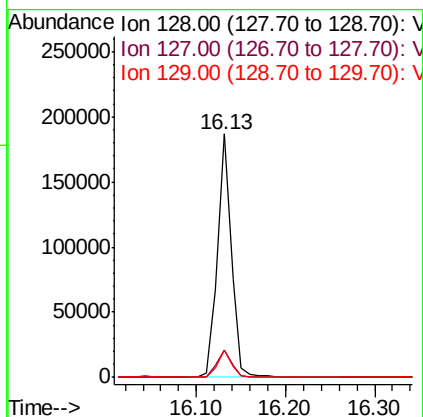
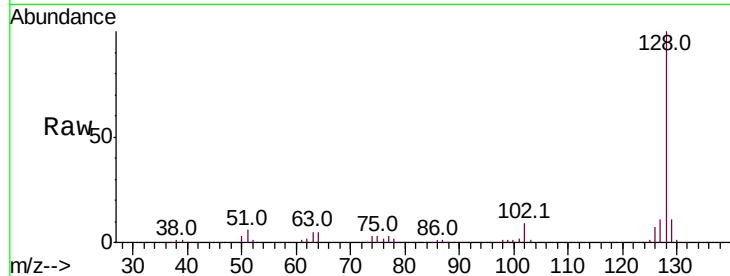
#95
Naphthalene
Concen: 29.130 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Instrument :
MSVOA_D
ClientSampleId :
VD9419SBS02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	204937		
127	11.4		9.8	14.8
129	11.1		8.8	13.2

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#96
1,2,3-Trichlorobenzene
Concen: 25.411 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD061929.D
Acq: 20 Apr 2019 4:00

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	66467		
182	99.7		47.0	141.0
145	33.5		17.0	51.0

