

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062497.D
 Acq On : 22 May 2019 12:00
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 11:20:53 AM

Quant Time: May 23 03:32:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	715467	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	1030693	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	809243	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	426891	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	424799	55.47	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	110.94%	
35) Dibromofluoromethane	6.91	113	472076	50.77	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	10.40	98	999703	49.13	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	13.55	95	427671	48.05	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	96.10%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	400990	61.038	ug/l	99
3) Chloromethane	1.75	50	224741	45.344	ug/l	96
4) Vinyl Chloride	1.84	62	239771	45.972	ug/l	99
5) Bromomethane	2.14	94	96445	42.853	ug/l	99
6) Chloroethane	2.25	64	94809	37.577	ug/l	96
7) Trichlorofluoromethane	2.53	101	370089	30.711	ug/l	93
8) Diethyl Ether	2.86	74	52987	32.595	ug/l	59
9) 1,1,2-Trichlorotrifluoroet	3.14	101	234408	32.696	ug/l	93
10) Methyl Iodide	3.29	142	446371	44.652	ug/l	90
11) Tert butyl alcohol	4.06	59	93921	265.682	ug/l	98
12) 1,1-Dichloroethene	3.12	96	167566	31.625	ug/l	80
13) Acrolein	3.03	56	50350	171.509	ug/l	95
14) Allyl chloride	3.61	41	318100	40.717	ug/l #	81
15) Acrylonitrile	4.18	53	222279	274.403	ug/l	88
16) Acetone	3.21	43	374791	273.090	ug/l #	88
17) Carbon Disulfide	3.36	76	671940	41.874	ug/l	100
18) Methyl Acetate	3.63	43	91455	38.618	ug/l	93
19) Methyl tert-butyl Ether	4.23	73	710852	58.085	ug/l	94
20) Methylene Chloride	3.80	84	276273	46.778	ug/l	97
21) trans-1,2-Dichloroethene	4.20	96	345164	55.646	ug/l	86
22) Diisopropyl ether	5.11	45	941512	56.618	ug/l	92
23) Vinyl Acetate	5.04	43	2854582	284.087	ug/l	98
24) 1,1-Dichloroethane	4.97	63	582000	54.342	ug/l	98
25) 2-Butanone	6.06	43	530427	369.530	ug/l	96
26) 2,2-Dichloropropane	6.00	77	705228	61.086	ug/l	88
27) cis-1,2-Dichloroethene	6.02	96	394446	58.973	ug/l	94
28) Bromochloromethane	6.42	49	199421	51.881	ug/l	90
29) Tetrahydrofuran	6.44	42	192853	281.318	ug/l	99
30) Chloroform	6.65	83	791243	57.950	ug/l	97
31) Cyclohexane	6.94	56	405481	56.073	ug/l	95
32) 1,1,1-Trichloroethane	6.85	97	787726	57.145	ug/l	98
36) 1,1-Dichloropropene	7.13	75	528541	53.637	ug/l	96
37) Ethyl Acetate	6.17	43	211278	55.191	ug/l #	89
38) Carbon Tetrachloride	7.09	117	781179m	53.340	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	476328	58.606	ug/l	97
40) Benzene	7.44	78	1050461	54.346	ug/l	98
41) Methacrylonitrile	6.42	41	261175	54.322	ug/l #	85
42) 1,2-Dichloroethane	7.57	62	539510	52.710	ug/l	93
43) Isopropyl Acetate	9.23	43	276226	54.392	ug/l #	90
44) Trichloroethene	8.52	130	404364	52.249	ug/l	85
45) 1,2-Dichloropropane	8.93	63	237162	50.348	ug/l	99
46) Dibromomethane	9.05	93	233010	54.571	ug/l	88
47) Bromodichloromethane	9.37	83	600903	55.321	ug/l	100
48) Methyl methacrylate	9.10	41	189786	55.533	ug/l #	83
49) 1,4-Dioxane	9.07	88	34737	1133.185	ug/l #	90
51) 4-Methyl-2-Pentanone	10.29	43	900818	268.505	ug/l	93
52) Toluene	10.50	92	719601	54.382	ug/l	97
53) t-1,3-Dichloropropene	10.90	75	492986	54.514	ug/l	97
54) cis-1,3-Dichloropropene	10.03	75	520379	55.148	ug/l #	86
55) 1,1,2-Trichloroethane	11.18	97	238341	53.146	ug/l	95
56) Ethyl methacrylate	11.03	69	263641	54.991	ug/l #	80
57) 1,3-Dichloropropane	11.39	76	340488	49.506	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.85	63	591113	240.113	ug/l	100
59) 2-Hexanone	11.52	43	765933	314.125	ug/l	91
60) Dibromochloromethane	11.68	129	452111	52.487	ug/l	97
61) 1,2-Dibromoethane	11.80	107	312197	56.488	ug/l	95
64) Tetrachloroethene	11.25	164	378726	55.894	ug/l	96
65) Chlorobenzene	12.39	112	862656	55.433	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.51	131	401963	55.956	ug/l	94
67) Ethyl Benzene	12.52	91	1564961	58.384	ug/l	95
68) m/p-Xylenes	12.66	106	1035008	107.569	ug/l	91
69) o-Xylene	13.04	106	472387	52.034	ug/l	80
70) Styrene	13.07	104	835750	54.115	ug/l	96
71) Bromoform	13.22	173	276959	58.055	ug/l	99
73) Isopropylbenzene	13.39	105	1496795	55.625	ug/l	97
74) N-amyl acetate	13.25	43	387180	58.258	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.69	83	282696	58.234	ug/l	100
76) 1,2,3-Trichloropropane	13.73	75	301150	59.891	ug/l	99
77) Bromobenzene	13.66	156	449213	58.849	ug/l	85
78) n-propylbenzene	13.77	91	1897309	60.872	ug/l	96
79) 2-Chlorotoluene	13.83	91	1069296	56.531	ug/l	95
80) 1,3,5-Trimethylbenzene	13.92	105	1280452	54.958	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.46	75	82669	58.295	ug/l #	62
82) 4-Chlorotoluene	13.94	91	1240482	56.945	ug/l	92
83) tert-Butylbenzene	14.18	119	1453929	56.258	ug/l	90
84) 1,2,4-Trimethylbenzene	14.23	105	1309452	54.849	ug/l	92
85) sec-Butylbenzene	14.36	105	1494395	55.455	ug/l	96
86) p-Isopropyltoluene	14.48	119	1414791	57.934	ug/l	92
87) 1,3-Dichlorobenzene	14.44	146	732794	54.361	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	711294	54.682	ug/l	96
89) n-Butylbenzene	14.79	91	1306232	55.424	ug/l	94
90) Hexachloroethane	15.00	117	393380	58.286	ug/l	99
91) 1,2-Dichlorobenzene	14.80	146	660707	57.641	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	49454	53.670	ug/l	67

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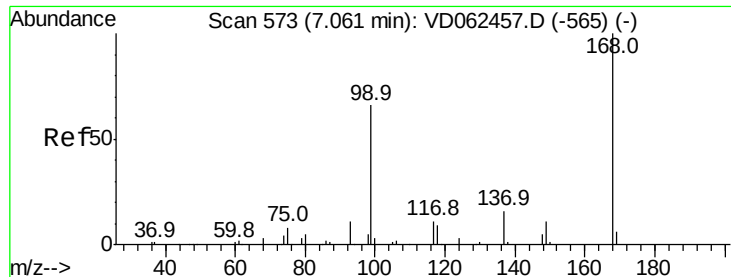
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	483775	53.601	ug/l	94
94) Hexachlorobutadiene	16.03	225	359734	53.980	ug/l	98
95) Naphthalene	16.12	128	741578	60.132	ug/l	100
96) 1,2,3-Trichlorobenzene	16.26	180	428673	57.937	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 715467

Ion Ratio Lower Upper

168 100

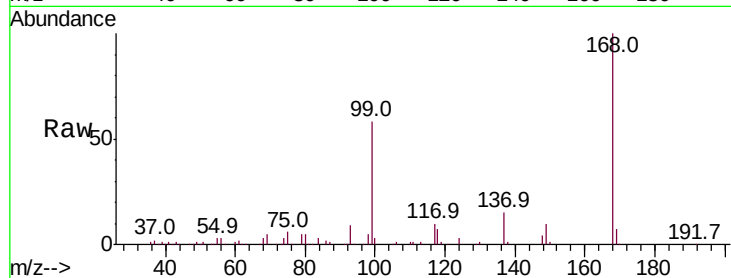
99 58.0 46.5 69.7

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

7.03

250000

200000

150000

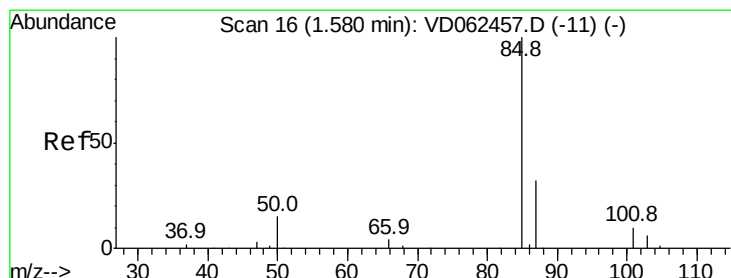
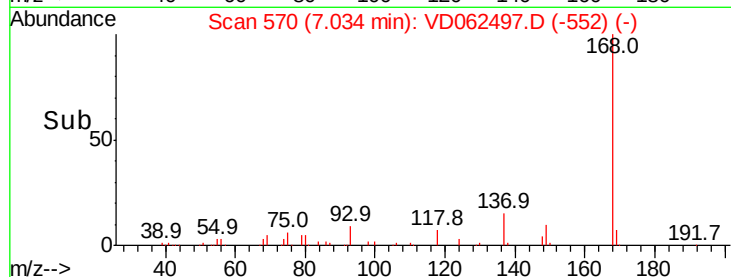
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#2

Dichlorodifluoromethane

Concen: 61.038 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD062497.D

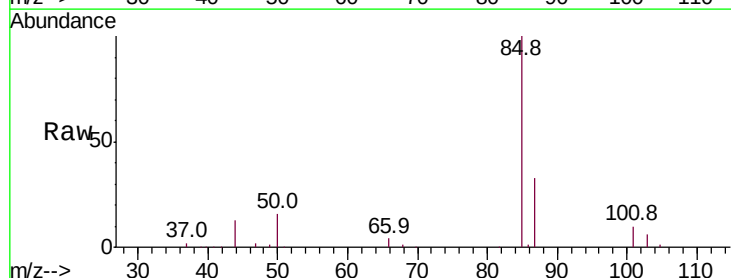
Acq: 22 May 2019 12:00

Tgt Ion: 85 Resp: 400990

Ion Ratio Lower Upper

85 100

87 33.1 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

200000

150000

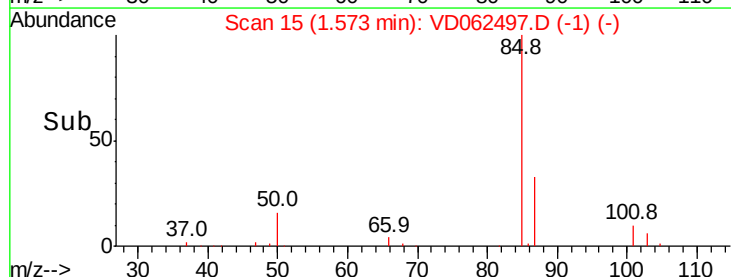
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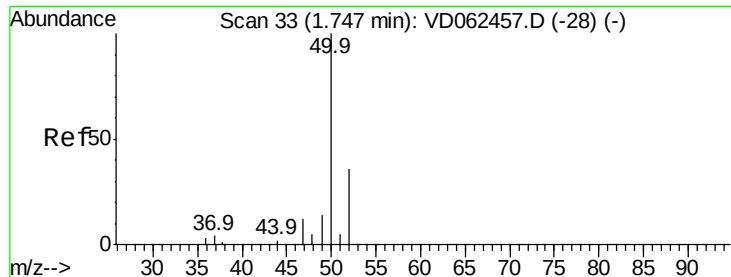
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 45.344 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 224741

Ion Ratio Lower Upper

50 100

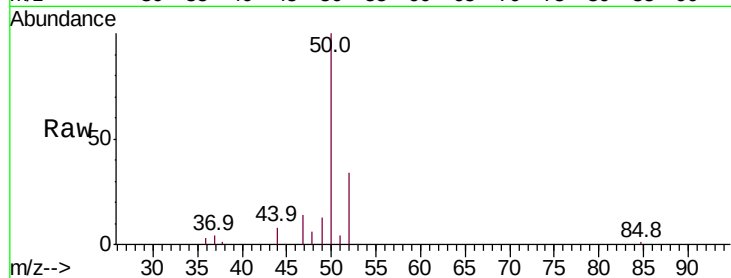
52 33.8 25.2 37.8

Manual Integrations

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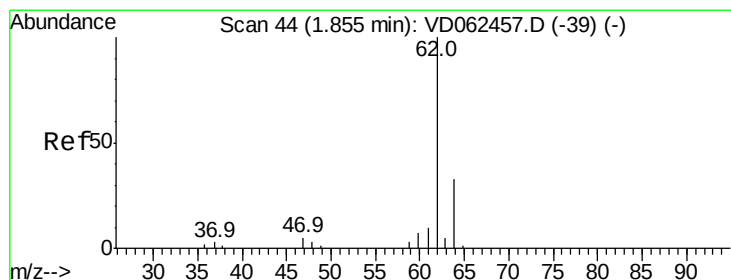
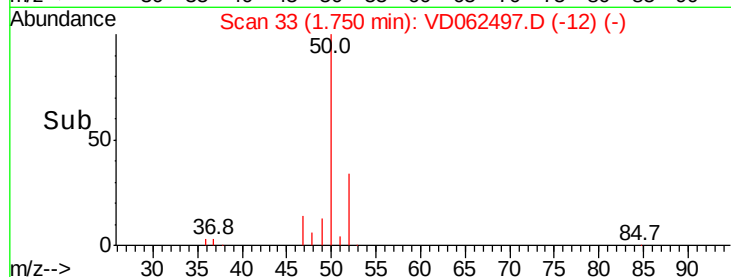
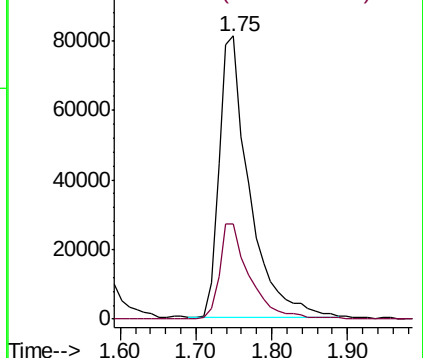
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 45.972 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.02 min

Lab File: VD062497.D

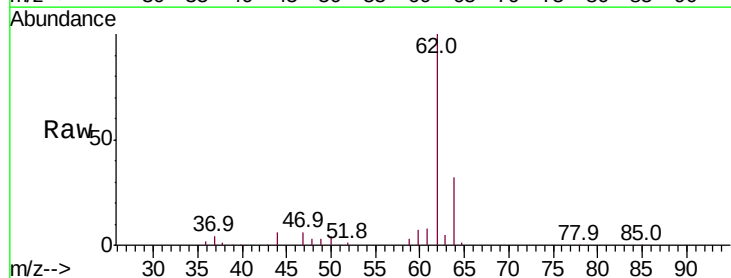
Acq: 22 May 2019 12:00

Tgt Ion: 62 Resp: 239771

Ion Ratio Lower Upper

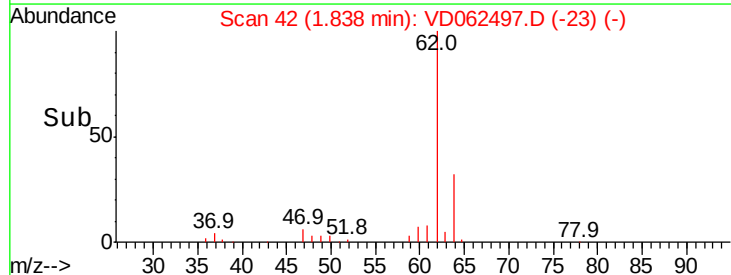
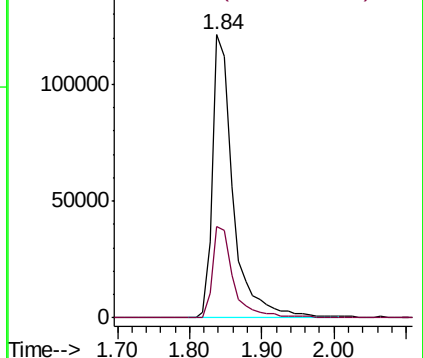
62 100

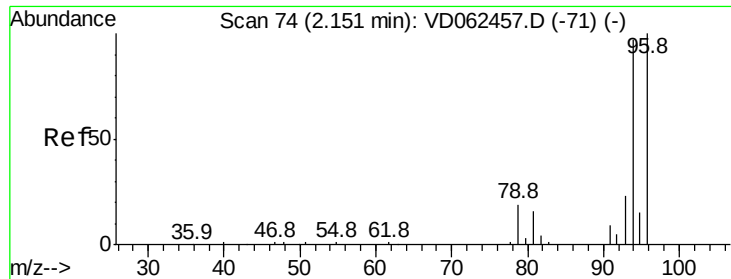
64 32.4 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 42.853 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

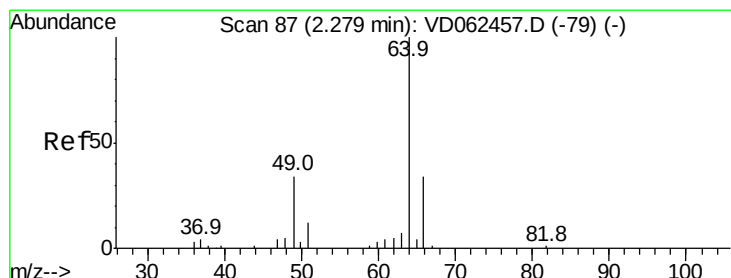
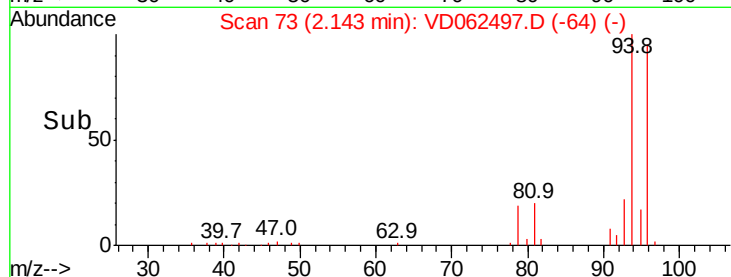
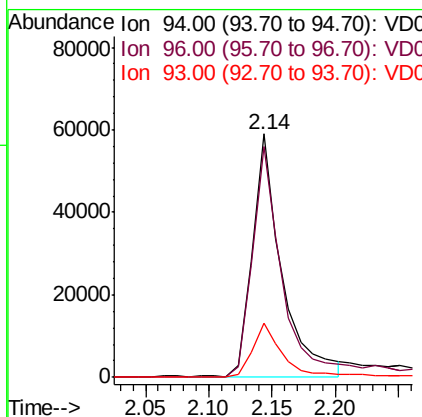
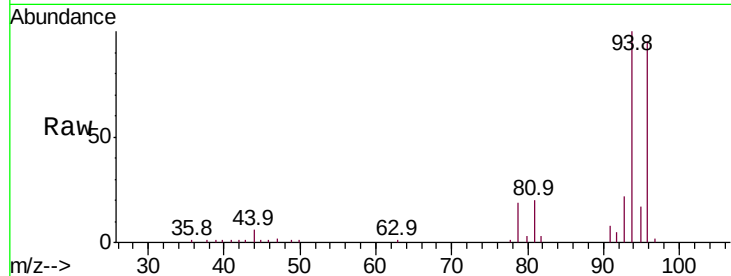
ClientSampleId :

VSTDCCC050

Tot Ion:	94	Resp:	96445
Ion	Ratio	Lower	Upper
94	100		
96	94.6	76.6	115.0
93	22.4	18.5	27.7

Manual Integrations
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#6

Chloroethane

Concen: 37.577 ug/l

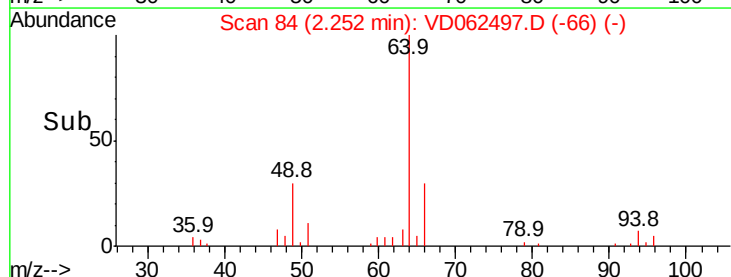
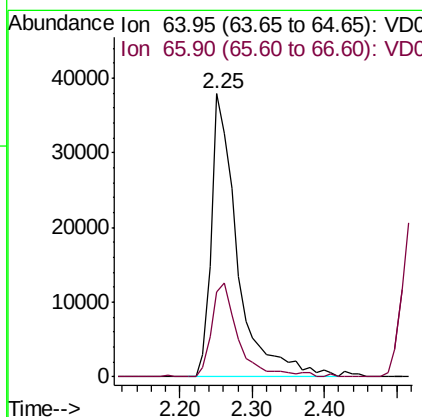
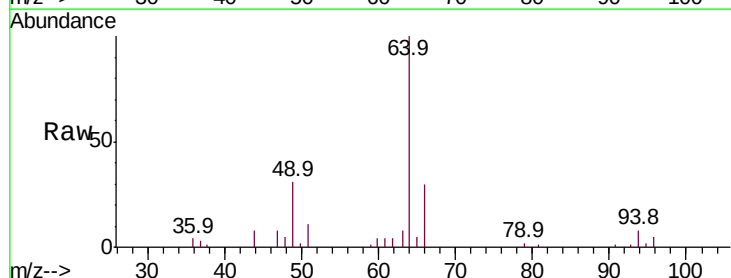
RT: 2.25 min Scan# 84

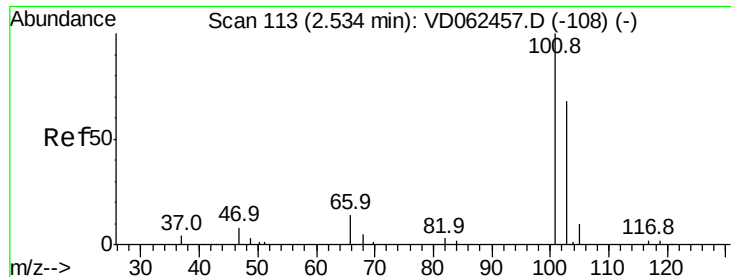
Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion:	64	Resp:	94809
Ion	Ratio	Lower	Upper
64	100		
66	30.0	25.6	38.4





#7

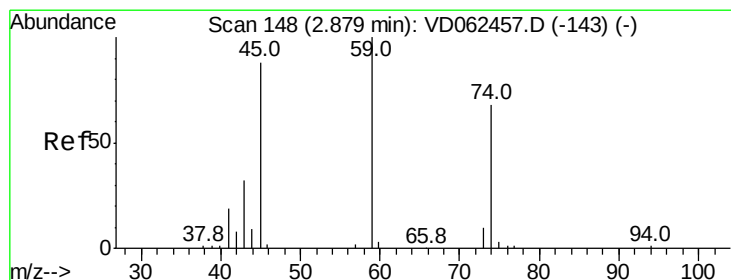
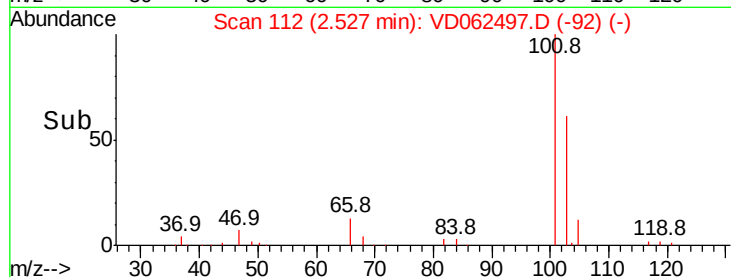
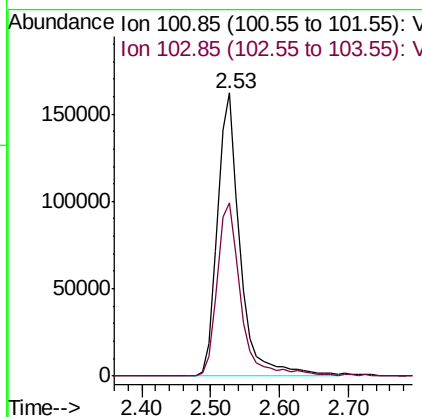
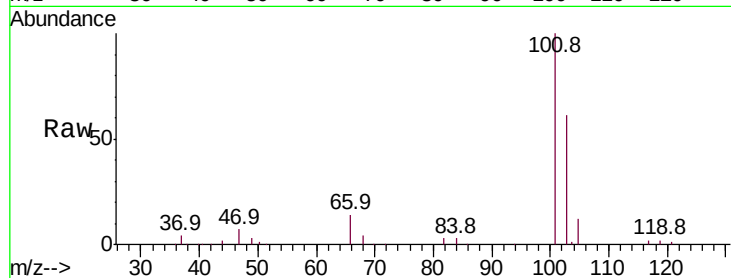
Trichlorofluoromethane
 Concen: 30.711 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. -0.01 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

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 ClientSampleId :
 VSTDCCC050

Tot Ion:101 Resp: 370089
 Ion Ratio Lower Upper
 101 100
 103 61.3 53.6 80.4

Manual Integrations
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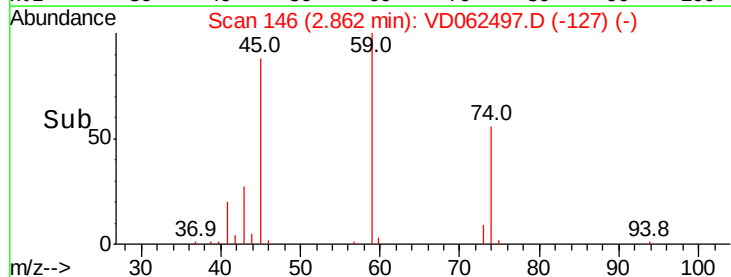
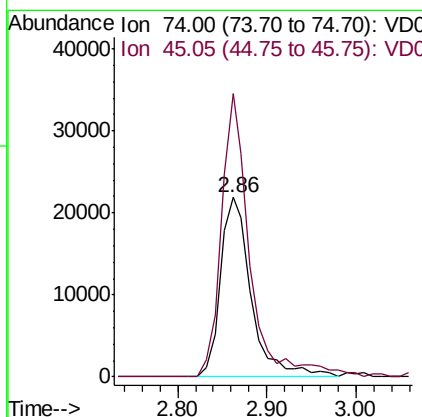
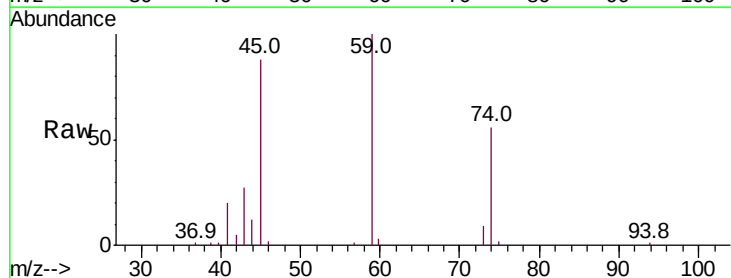
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 5/23/2019 11:20:53 AM

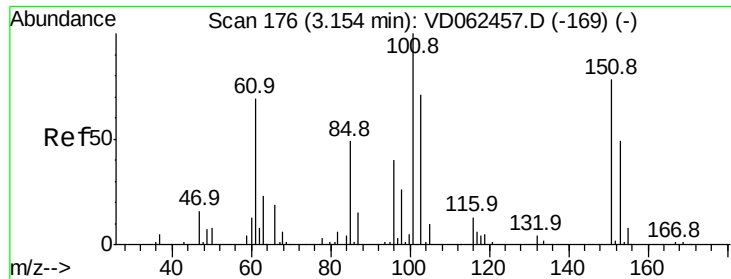


#8

Diethyl Ether
 Concen: 32.595 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion: 74 Resp: 52987
 Ion Ratio Lower Upper
 74 100
 45 157.9 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 32.696 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

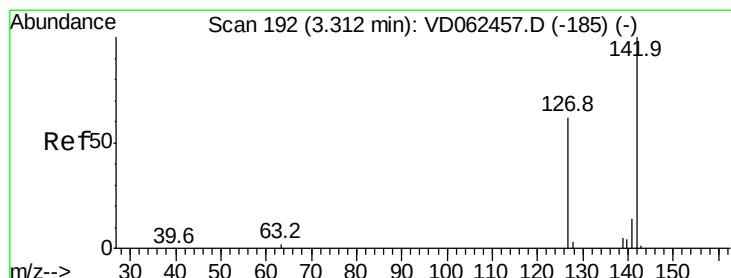
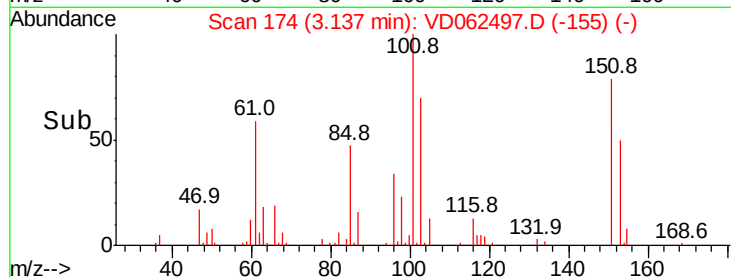
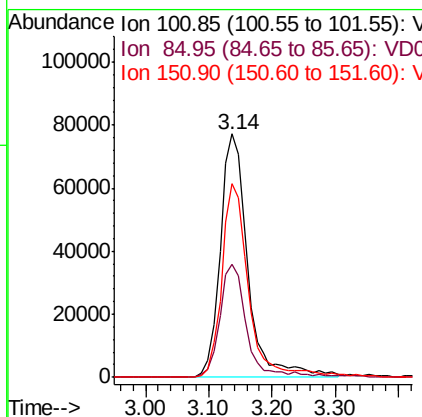
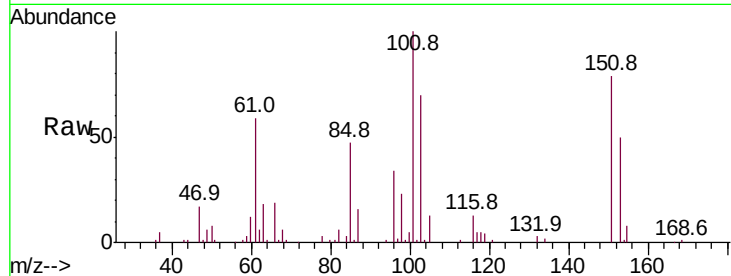
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	234408
Ion Ratio	Lower	Upper	
101	100		
85	46.7	32.4	48.6
151	79.4	59.4	89.0

Manual Integrations
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#10

Methyl Iodide

Concen: 44.652 ug/l

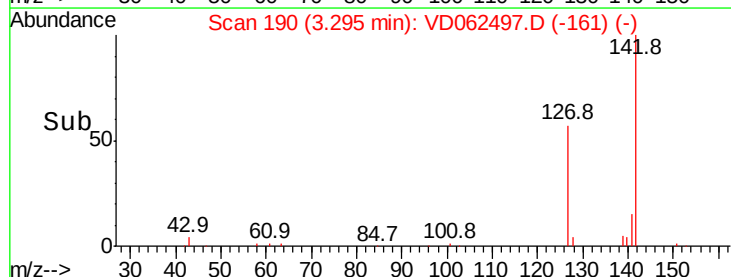
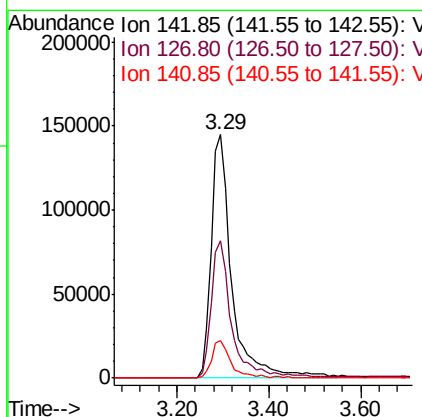
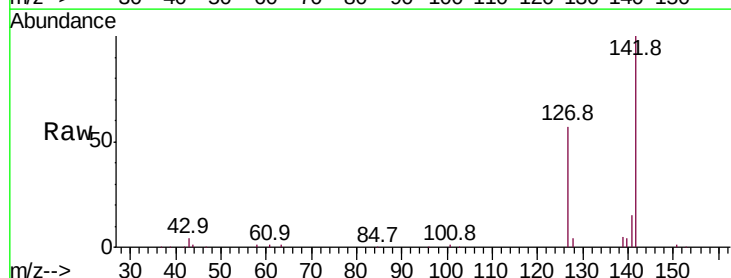
RT: 3.29 min Scan# 190

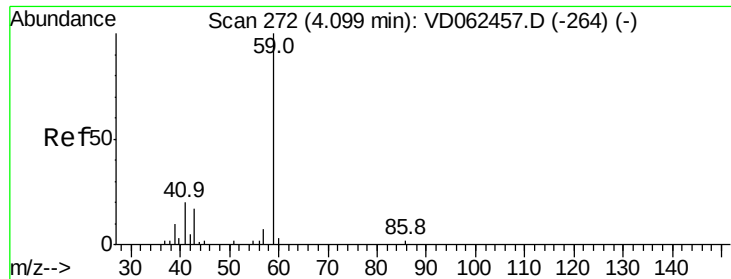
Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion:	142	Resp:	446371
Ion Ratio	Lower	Upper	
142	100		
127	56.7	38.8	58.2
141	15.2	11.4	17.0





#11

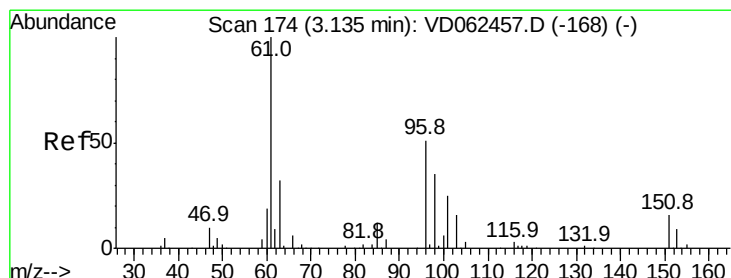
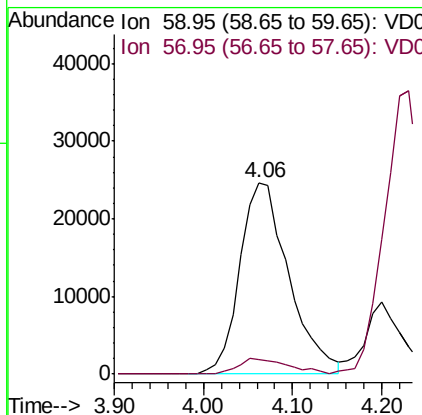
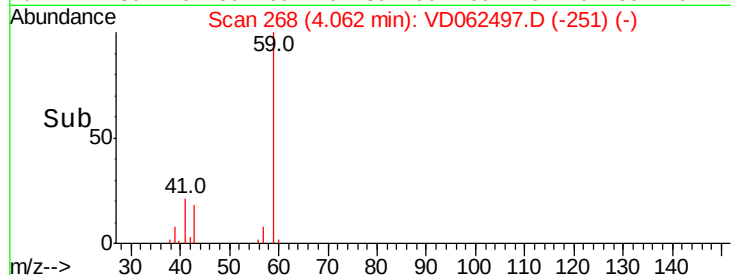
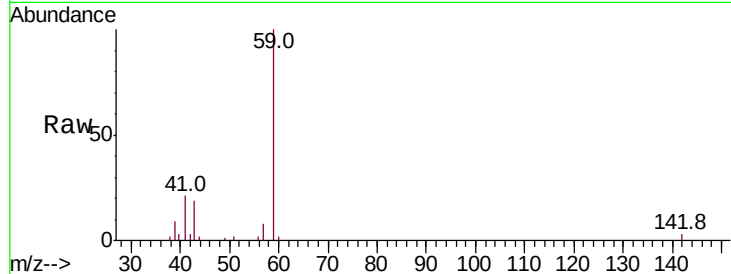
Tert butyl alcohol
Concen: 265.682 ug/l
RT: 4.06 min Scan# 268
Delta R.T. -0.04 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	59	Ratio	Lower	Upper
59	100			
57	7.8		6.9	10.3

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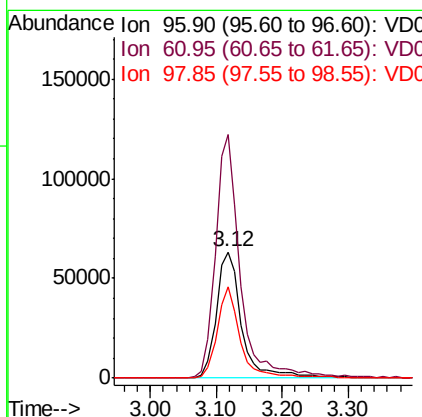
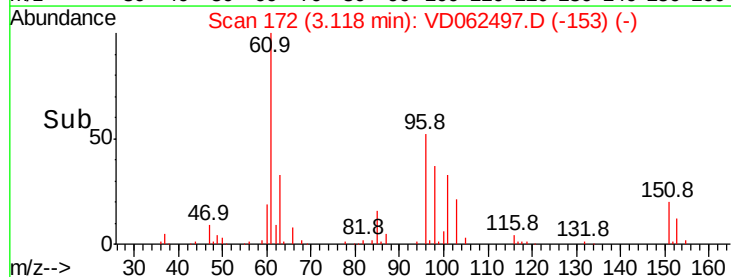
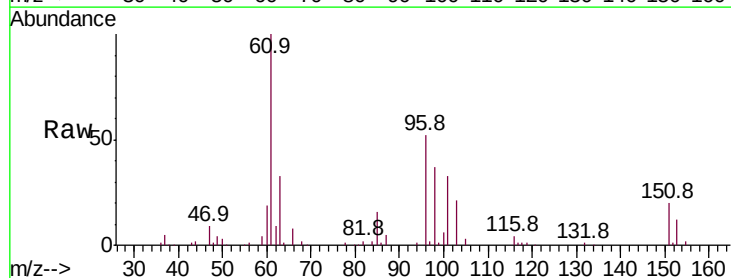
MMDadoda
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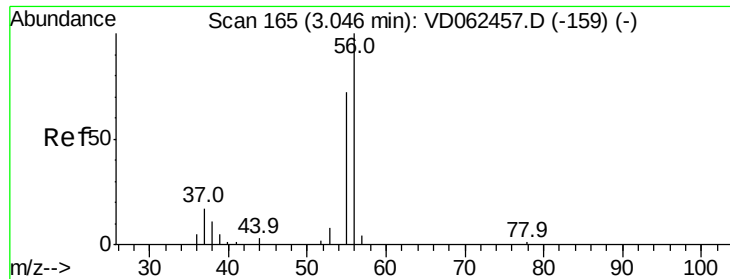


#12

1,1-Dichloroethene
Concen: 31.625 ug/l
RT: 3.12 min Scan# 172
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	96	Ratio	Lower	Upper
96	100			
61	193.3		129.8	194.8
98	72.1		51.2	76.8





#13

Acrolein

Concen: 171.509 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 50350

Ion Ratio Lower Upper

56 100

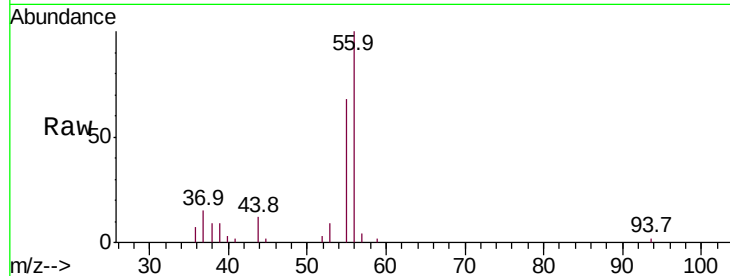
55 68.1 51.4 77.2

Manual Integrations

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

20000

15000

10000

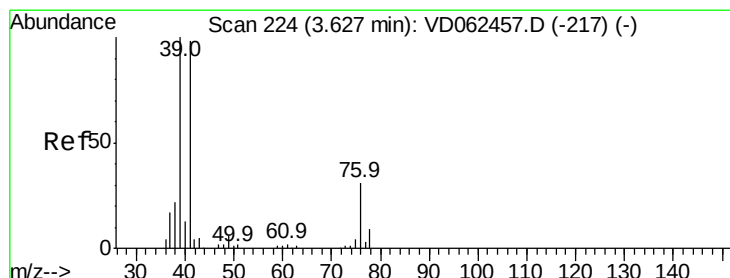
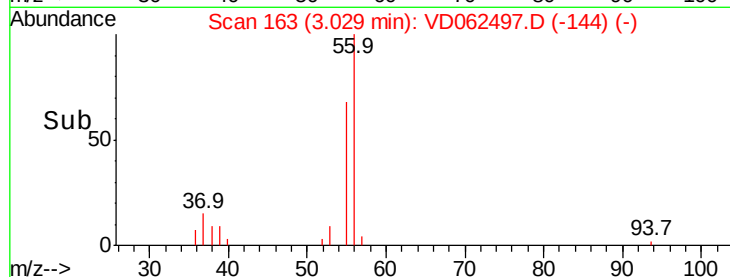
5000

0

Time-->

2.90 3.00 3.10 3.20

3.03



#14

Allyl chloride

Concen: 40.717 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

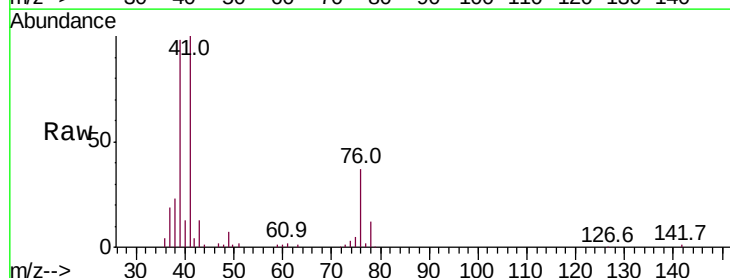
Tgt Ion: 41 Resp: 318100

Ion Ratio Lower Upper

41 100

39 98.5 60.5 90.7#

76 36.6 31.8 47.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

150000

100000

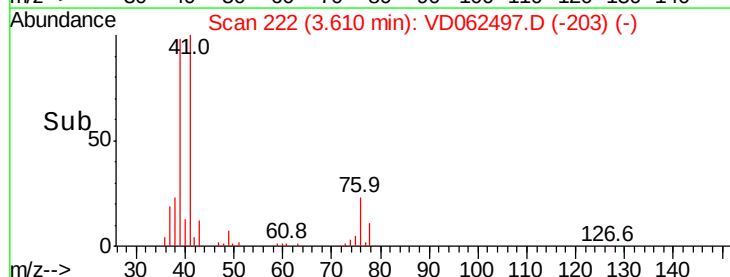
50000

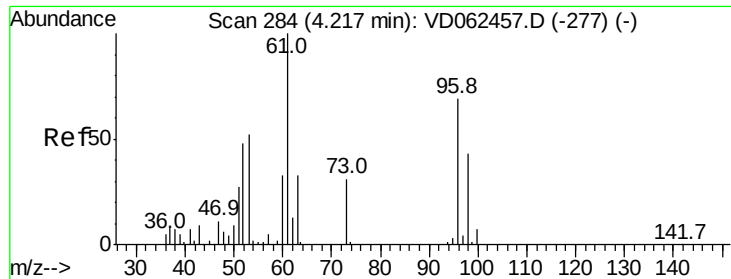
0

Time-->

3.50 3.60 3.70 3.80

3.61





#15

Acrylonitrile

Concen: 274.403 ug/l

RT: 4.18 min Scan# 280

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

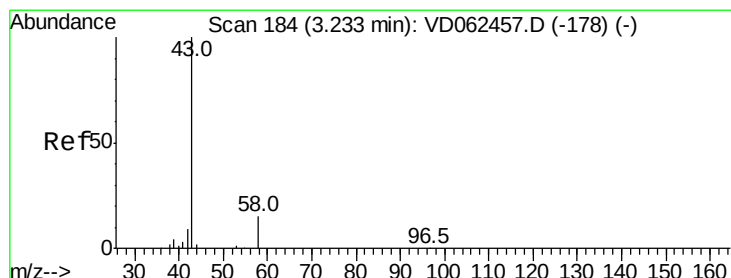
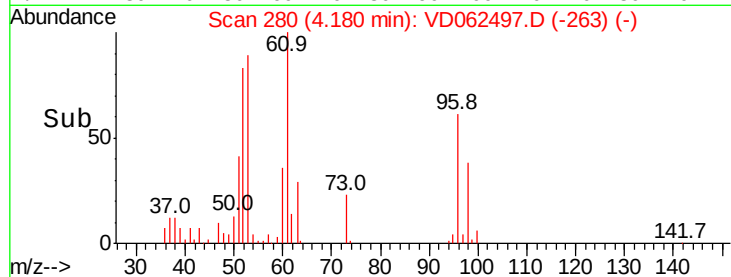
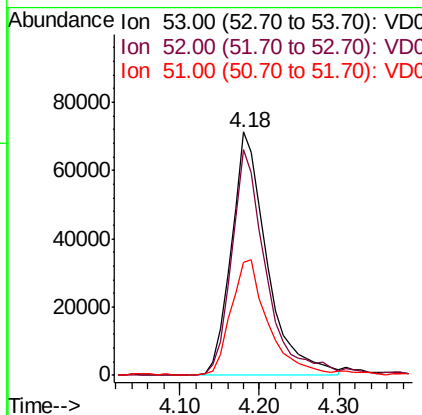
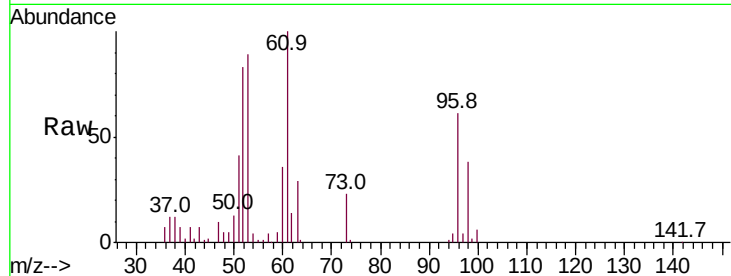
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	222279
Ion	Ratio	Lower	Upper
53	100		
52	92.9	65.0	97.4
51	46.3	32.6	48.8

Manual Integrations
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#16

Acetone

Concen: 273.090 ug/l

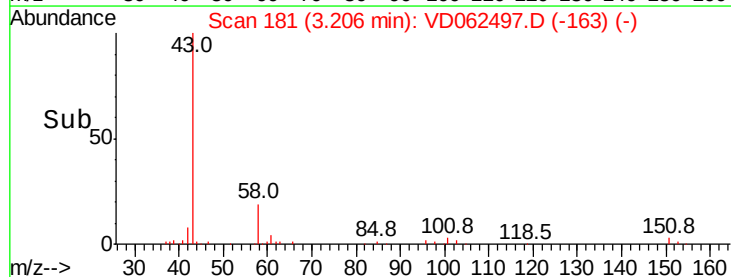
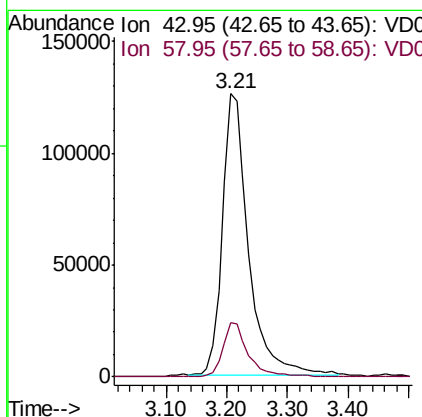
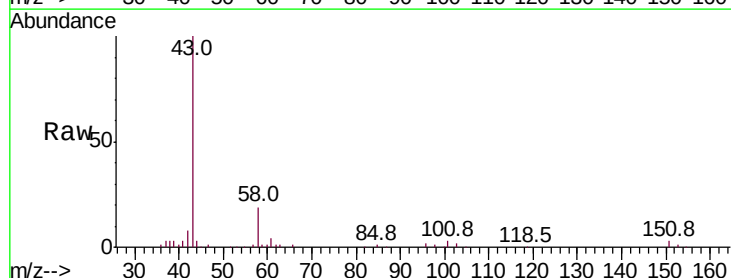
RT: 3.21 min Scan# 181

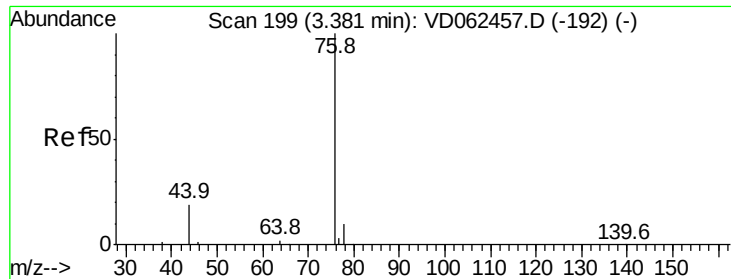
Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion:	43	Resp:	374791
Ion	Ratio	Lower	Upper
43	100		
58	19.1	19.9	29.9#





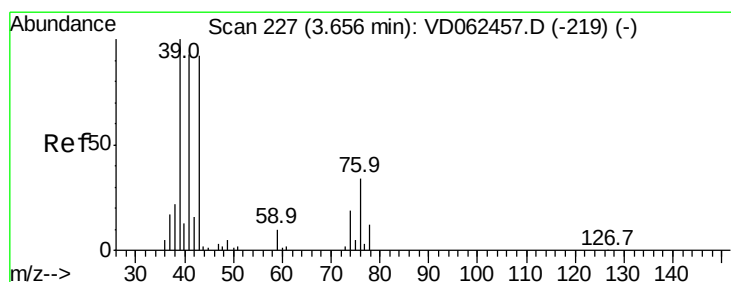
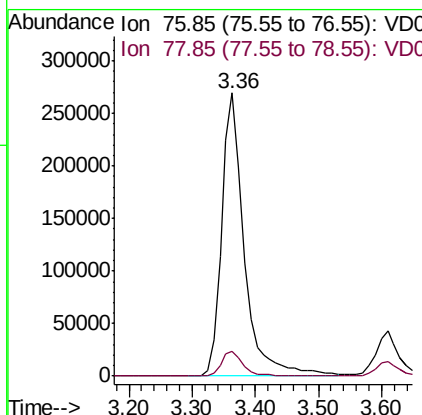
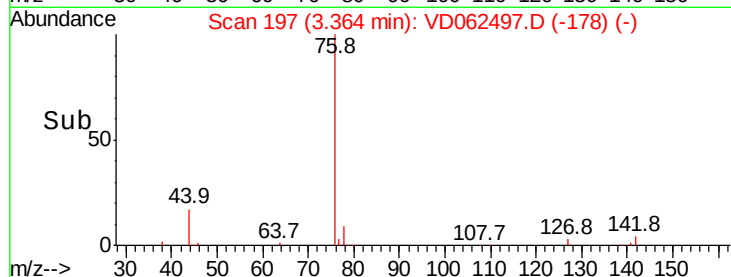
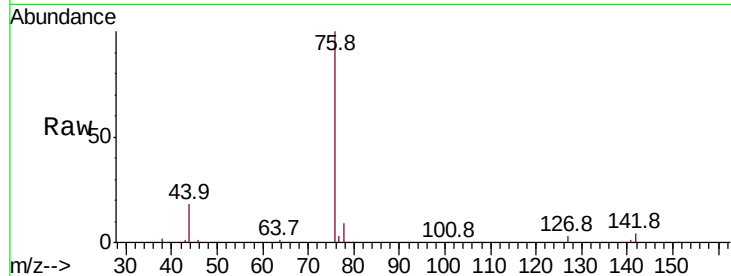
#17
Carbon Disulfide
Concen: 41.874 ug/l
RT: 3.36 min Scan# 197
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 671940
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8

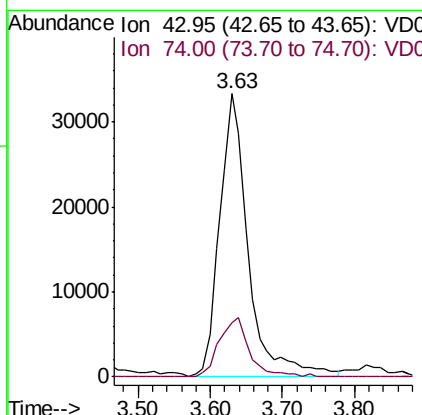
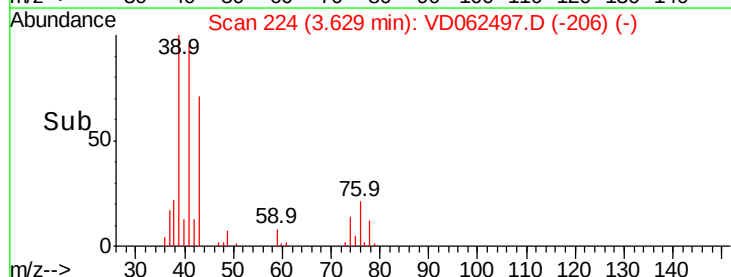
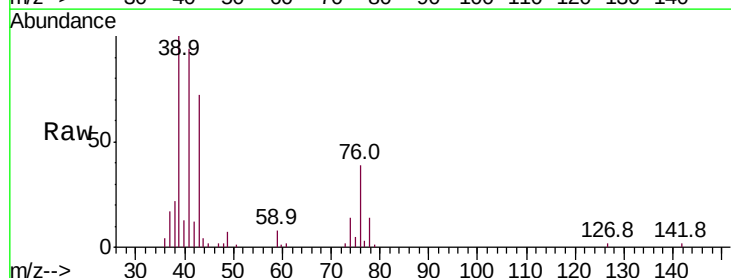
Manual Integrations
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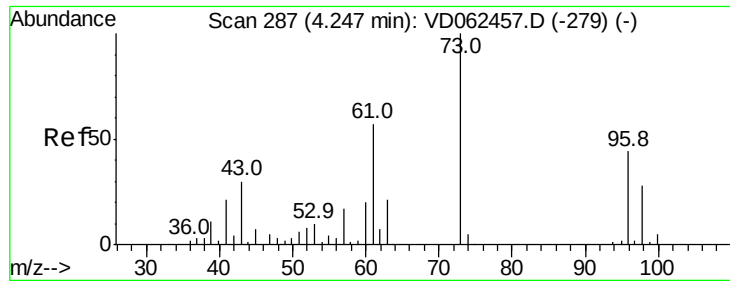
MMDadoda
5/23/2019 11:20:53 AM



#18
Methyl Acetate
Concen: 38.618 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 43 Resp: 91455
Ion Ratio Lower Upper
43 100
74 19.3 18.0 27.0





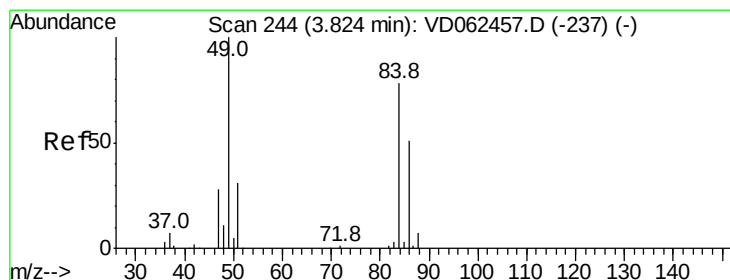
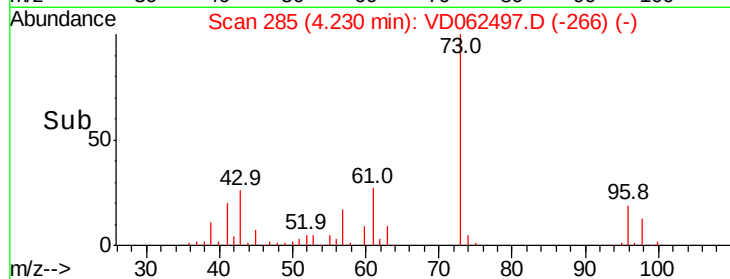
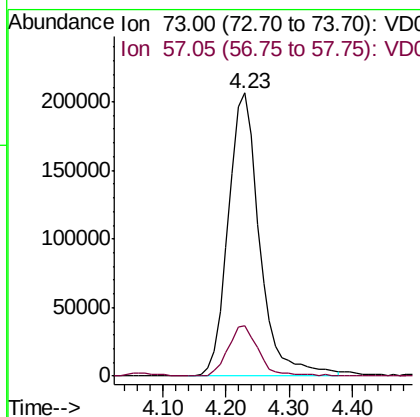
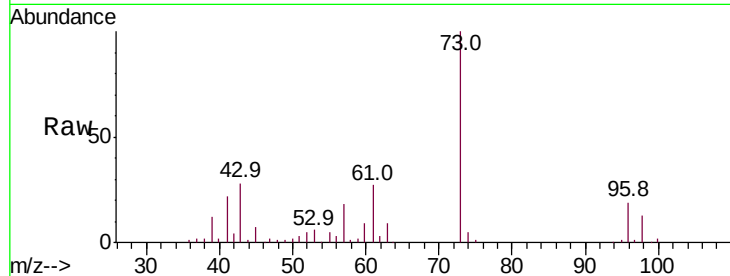
#19
Methyl tert-butyl Ether
Concen: 58.085 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 710852
Ion Ratio Lower Upper
73 100
57 17.7 16.3 24.5

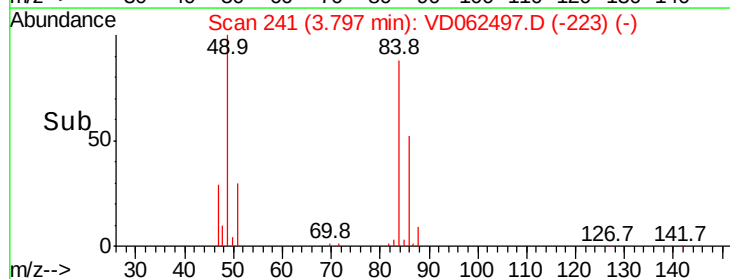
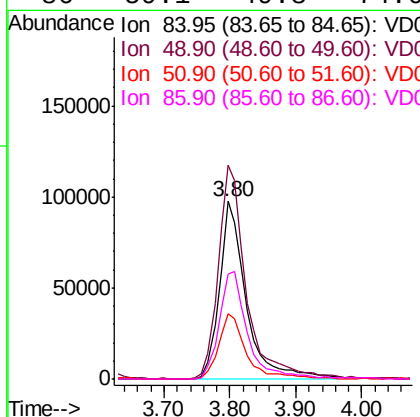
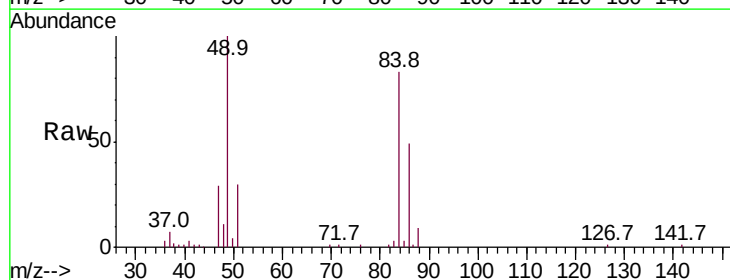
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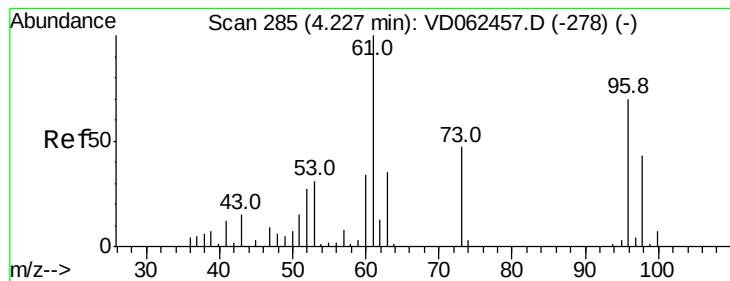
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#20
Methylene Chloride
Concen: 46.778 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 84 Resp: 276273
Ion Ratio Lower Upper
84 100
49 120.3 94.0 141.0
51 36.5 29.0 43.4
86 59.1 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 55.646 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 345164

Ion Ratio Lower Upper

96 100

61 155.0 104.4 156.6

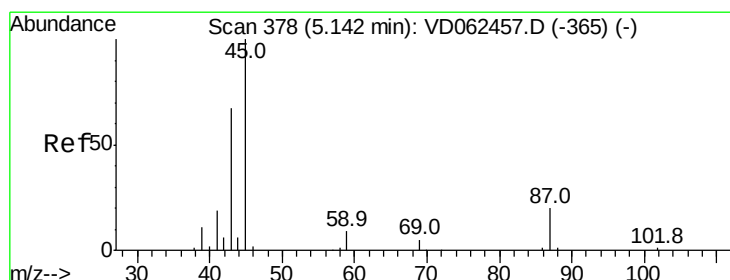
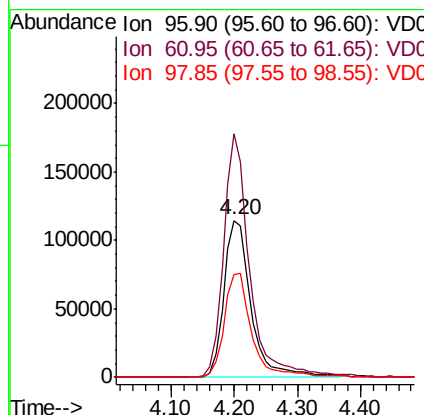
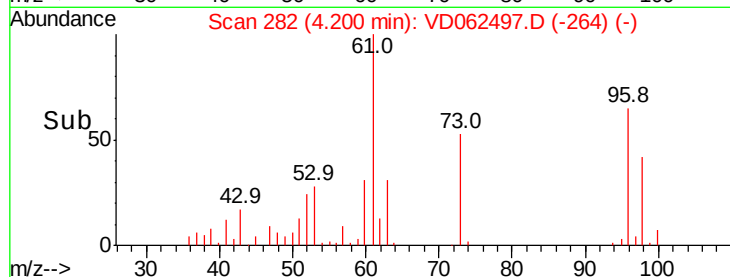
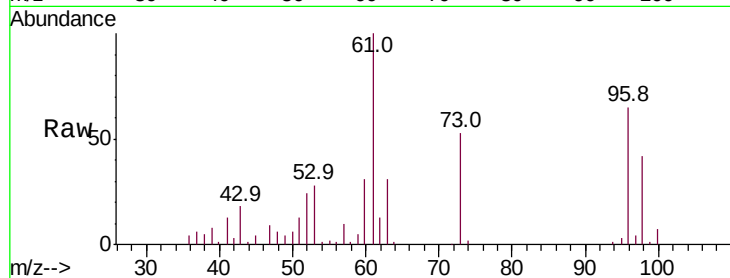
98 65.4 51.8 77.8

Manual Integrations

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5/23/2019 11:20:53 AM



#22

Diisopropyl ether

Concen: 56.618 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion: 45 Resp: 941512

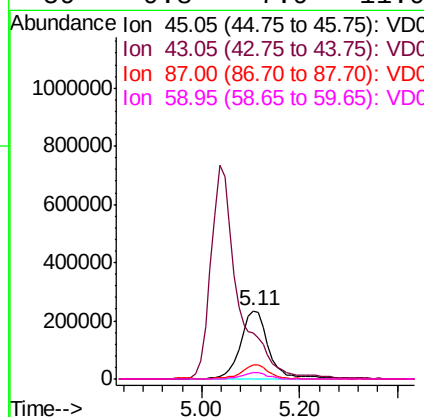
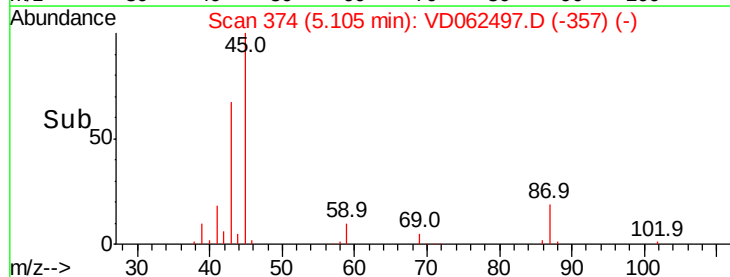
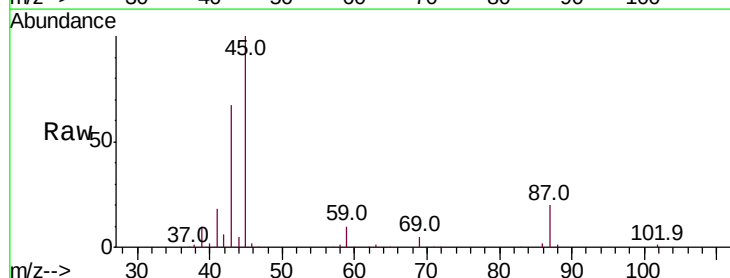
Ion Ratio Lower Upper

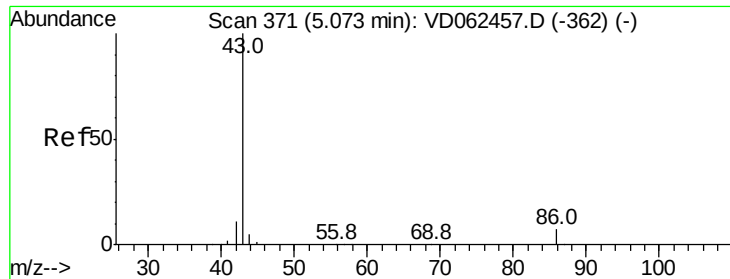
45 100

43 67.1 46.2 69.2

87 19.9 15.9 23.9

59 9.8 7.9 11.9





#23

Vinyl Acetate

Concen: 284.087 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2854582

Ion Ratio Lower Upper

43 100

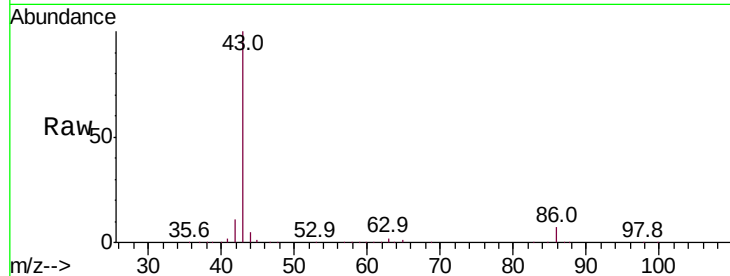
86 7.4 6.4 9.6

Manual Integrations

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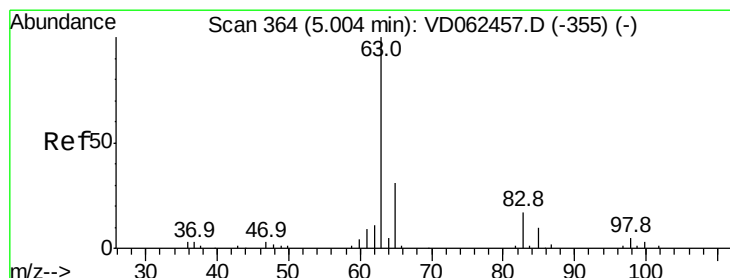
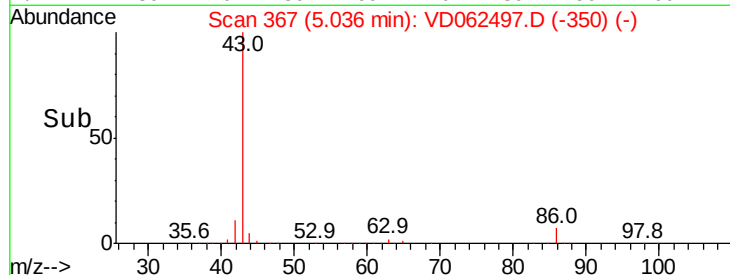
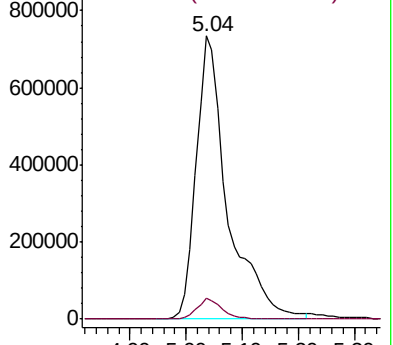
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5/23/2019 11:20:53 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 54.342 ug/l

RT: 4.97 min Scan# 360

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

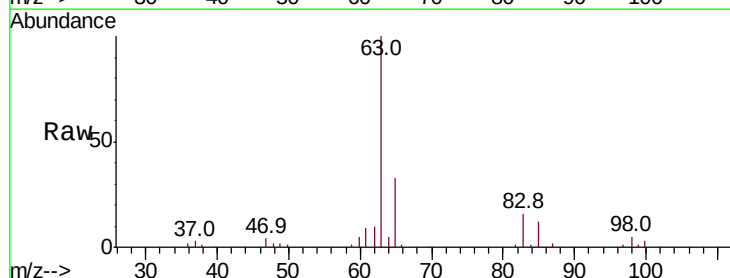
Tgt Ion: 63 Resp: 582000

Ion Ratio Lower Upper

63 100

98 5.2 2.8 8.4

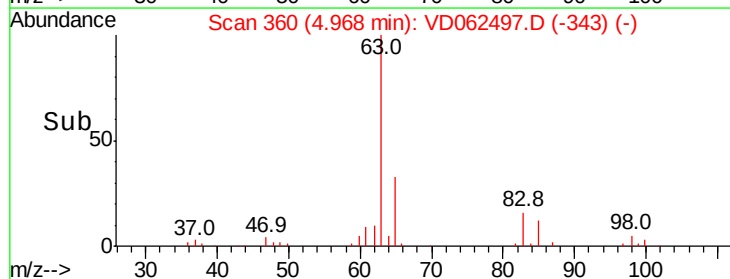
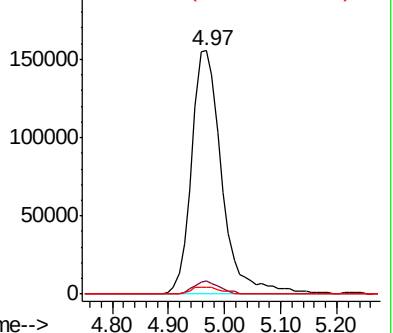
100 2.8 1.8 5.5

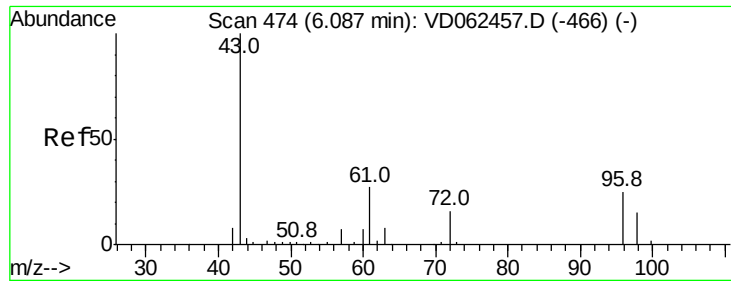


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 369.530 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 530427

Ion Ratio Lower Upper

43 100

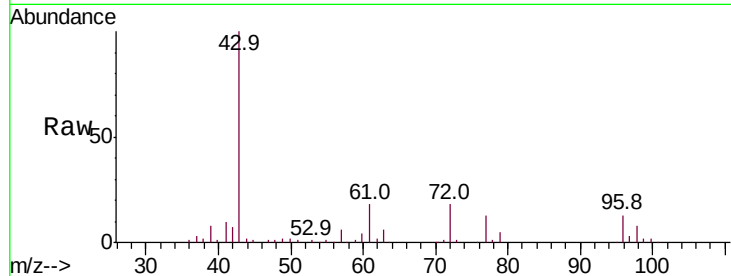
72 18.4 16.2 24.4

Manual Integrations

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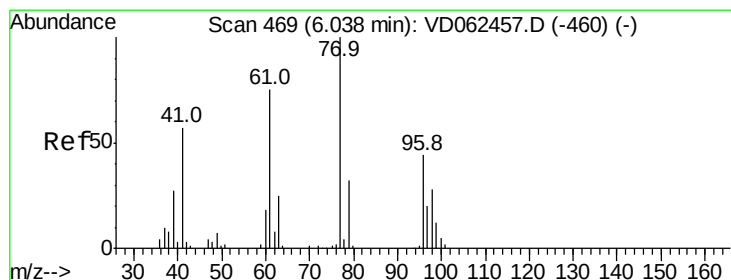
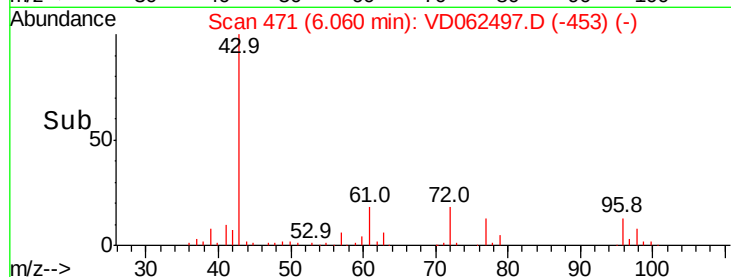
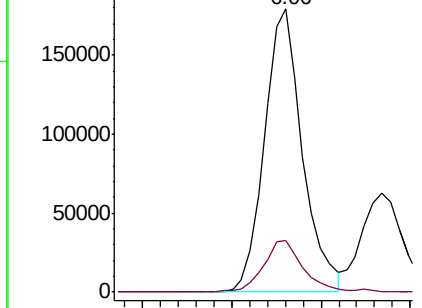
MMDadoda

5/23/2019 11:20:53 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 61.086 ug/l

RT: 6.00 min Scan# 465

Delta R.T. -0.04 min

Lab File: VD062497.D

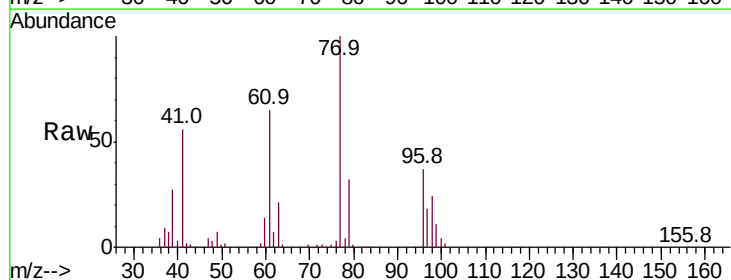
Acq: 22 May 2019 12:00

Tgt Ion: 77 Resp: 705228

Ion Ratio Lower Upper

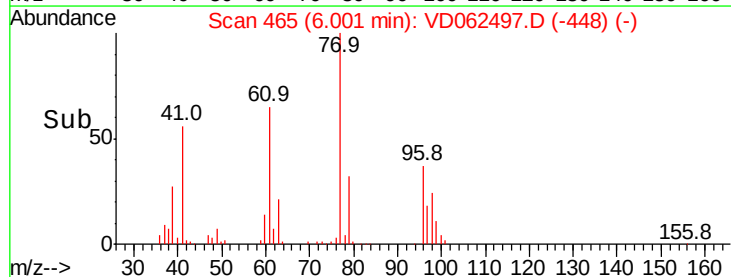
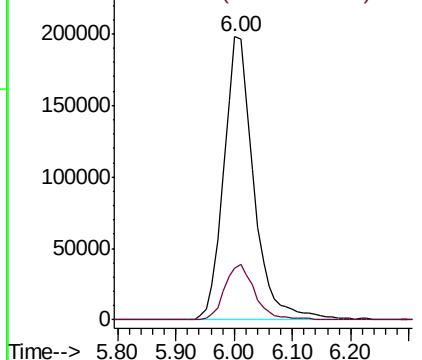
77 100

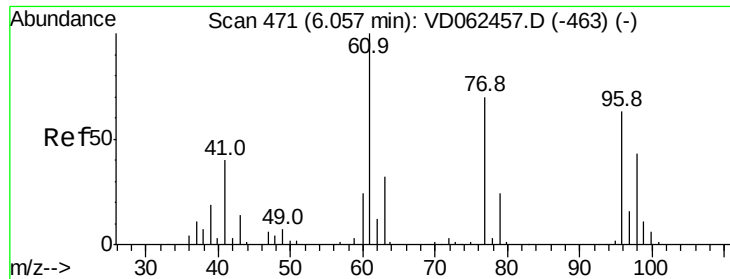
97 18.2 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

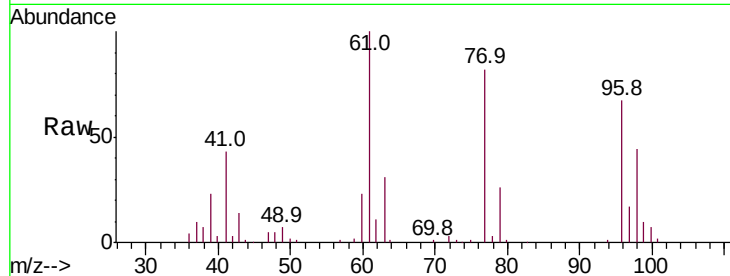
cis-1,2-Dichloroethene
 Concen: 58.973 ug/l
 RT: 6.02 min Scan# 467
 Delta R.T. -0.04 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

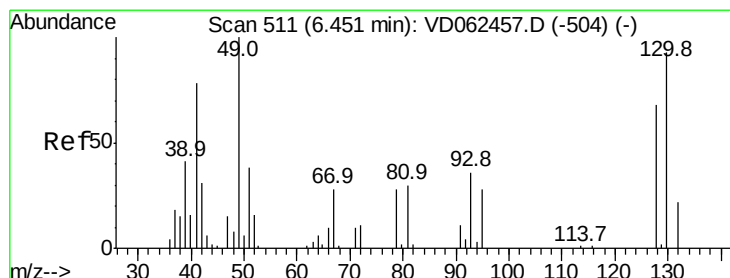
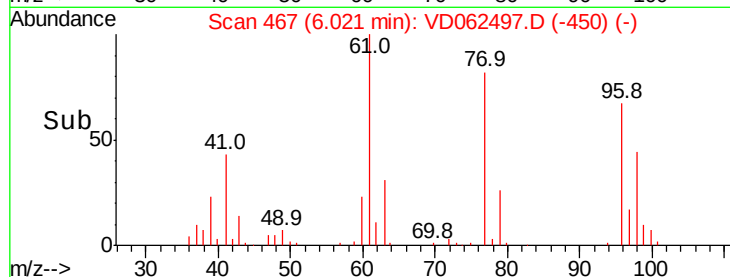
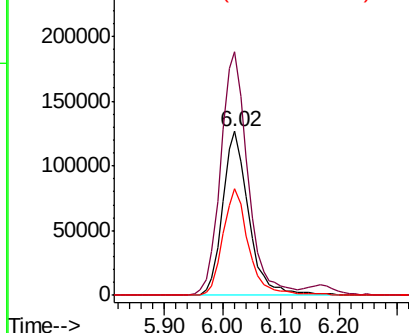
Tot Ion	Ratio	Resp	Lower	Upper
96	100	394446		
61	148.6	0.0	279.8	
98	64.9	0.0	136.0	

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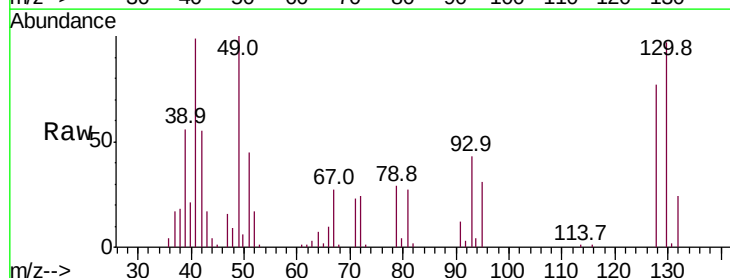
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



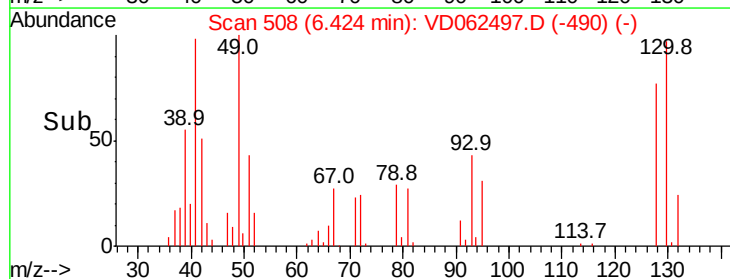
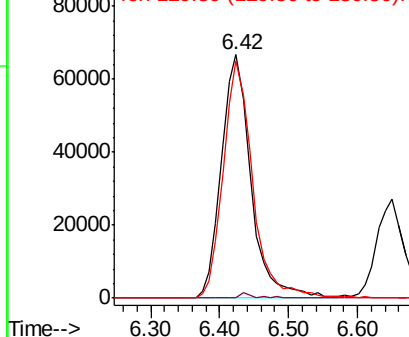
#28

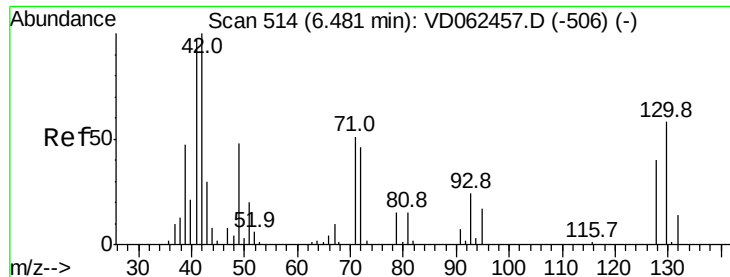
Bromochloromethane
 Concen: 51.881 ug/l
 RT: 6.42 min Scan# 508
 Delta R.T. -0.03 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	199421		
129	0.0	0.0	6.6	
130	97.4	86.7	130.1	



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





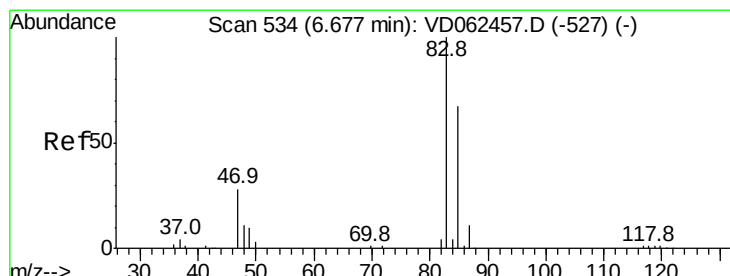
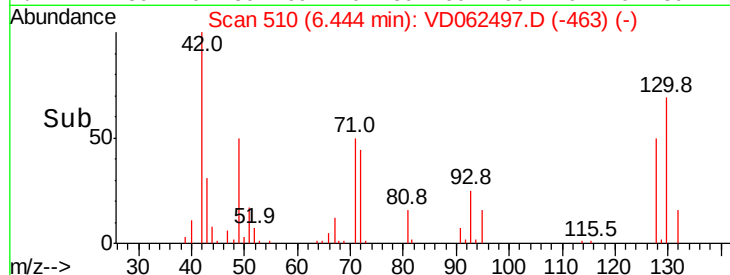
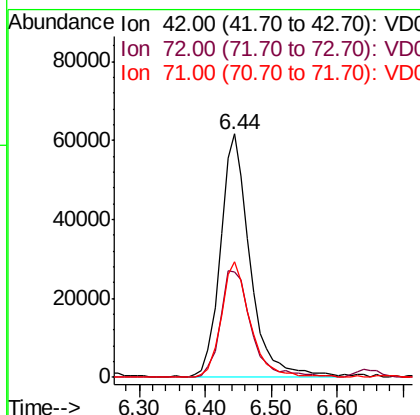
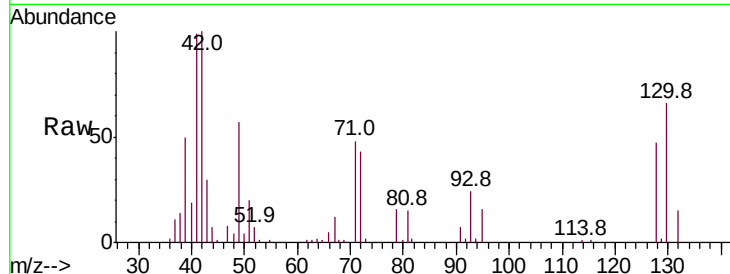
#29
Tetrahydrofuran
Concen: 281.318 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.04 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 42 Resp: 192853
Ion Ratio Lower Upper
42 100
72 45.7 37.8 56.6
71 45.9 36.7 55.1

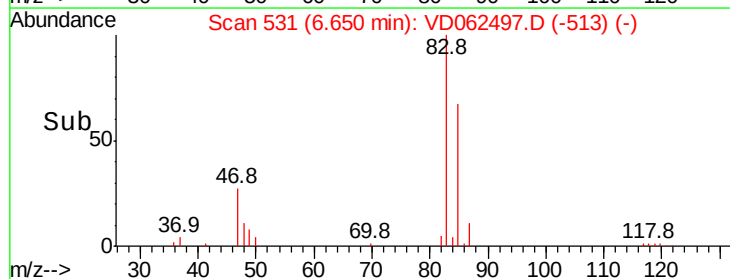
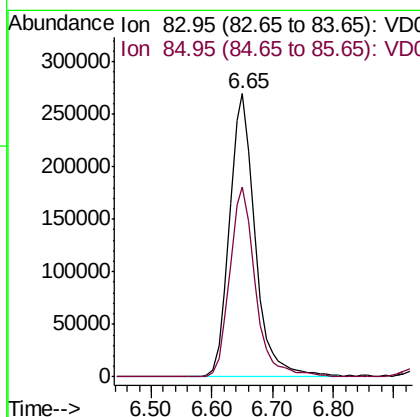
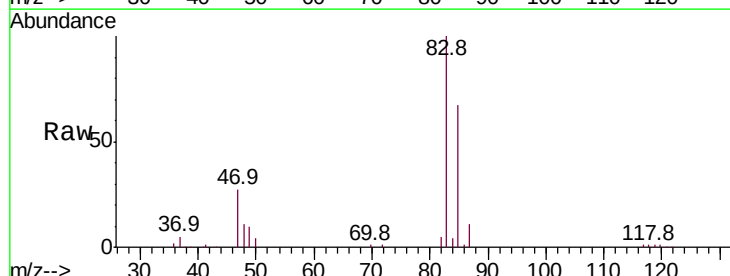
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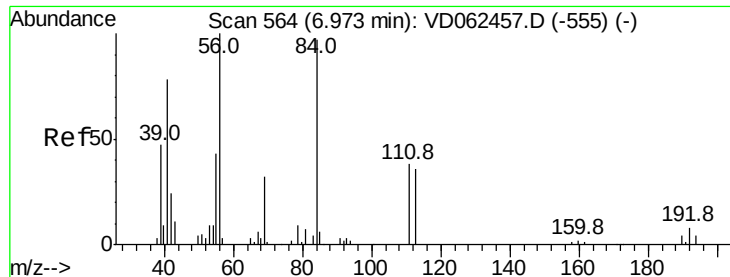
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#30
Chloroform
Concen: 57.950 ug/l
RT: 6.65 min Scan# 531
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 83 Resp: 791243
Ion Ratio Lower Upper
83 100
85 67.2 51.7 77.5





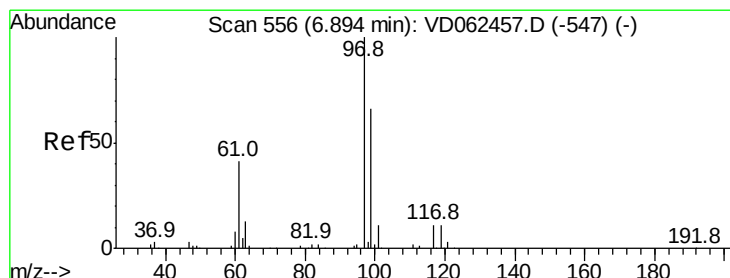
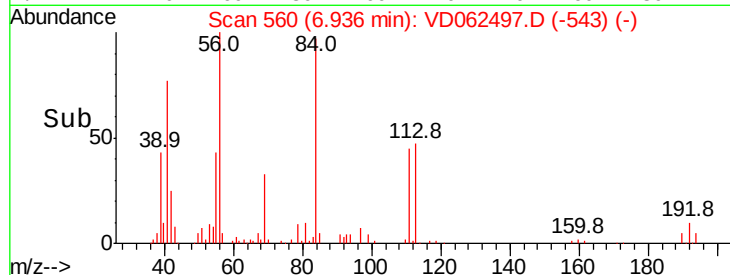
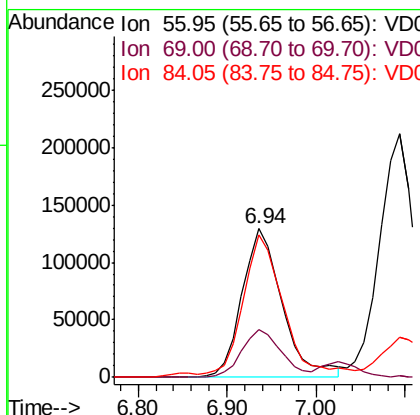
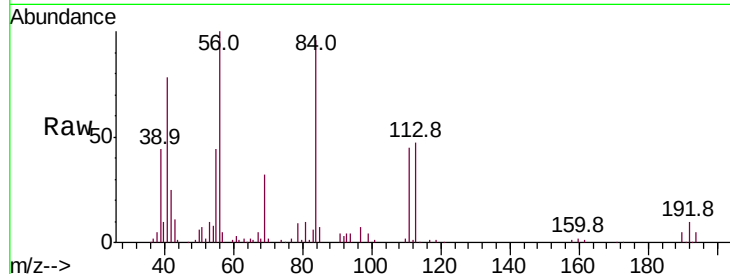
#31
Cyclohexane
Concen: 56.073 ug/l
RT: 6.94 min Scan# 560
Delta R.T. -0.04 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleID :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	25.8	38.6
84	96.4	72.2	108.4

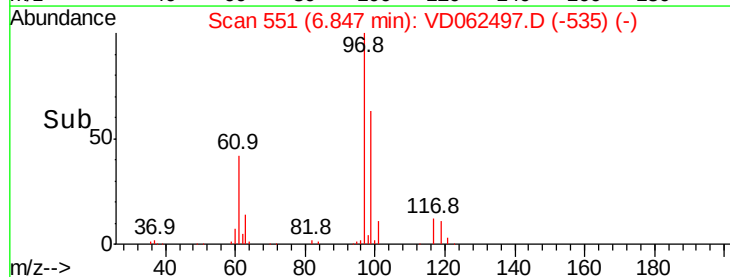
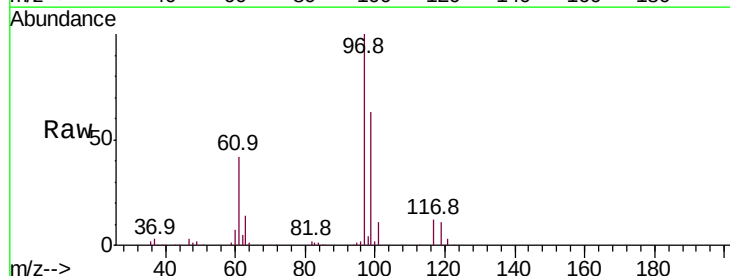
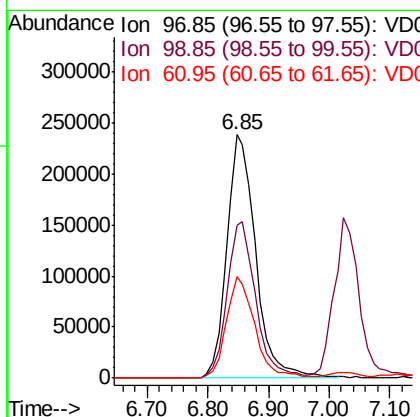
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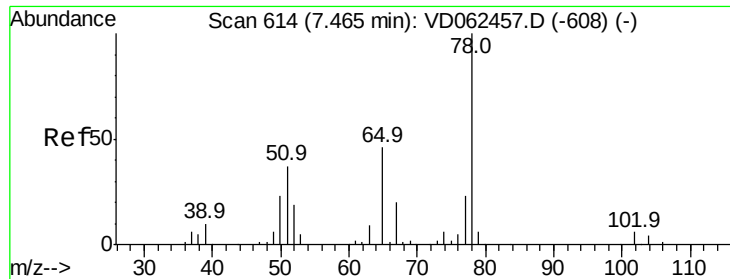
MMDadoda
5/23/2019 11:20:53 AM



#32
1,1,1-Trichloroethane
Concen: 57.145 ug/l
RT: 6.85 min Scan# 551
Delta R.T. -0.05 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.9	52.2	78.2
61	41.6	32.4	48.6





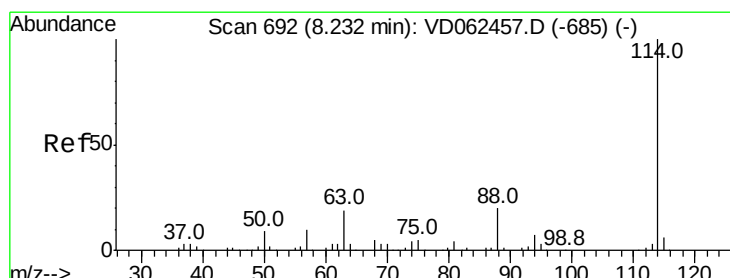
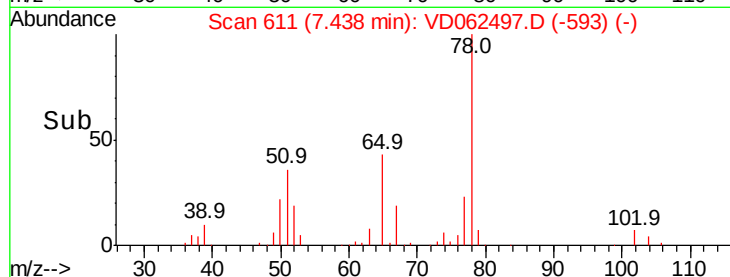
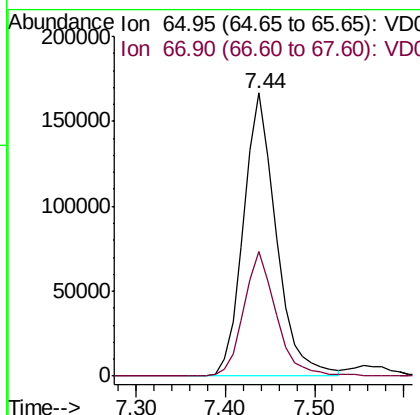
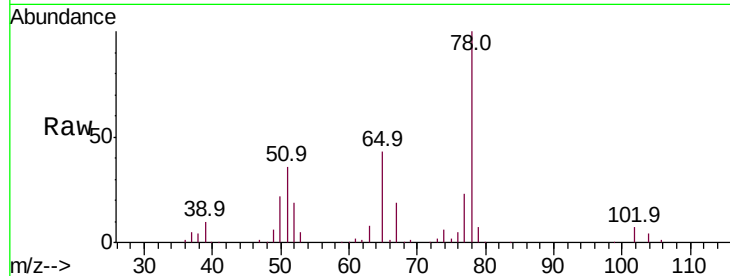
#33
 1,2-Dichloroethane-d4
 Concen: 55.467 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	424799		
67	44.1	0.0	98.0	

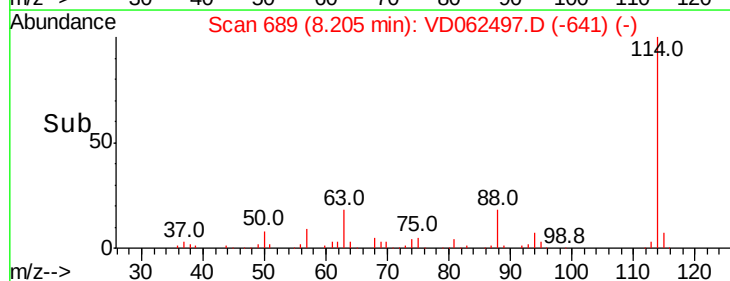
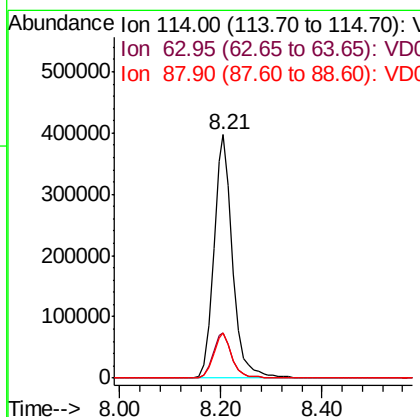
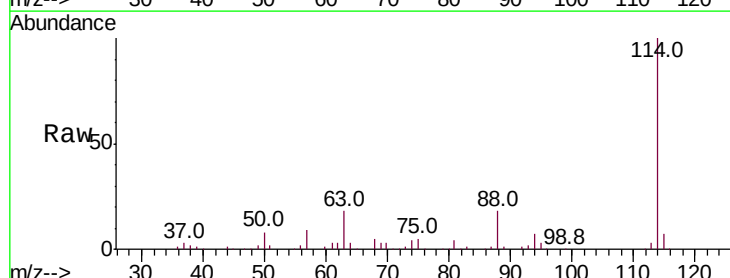
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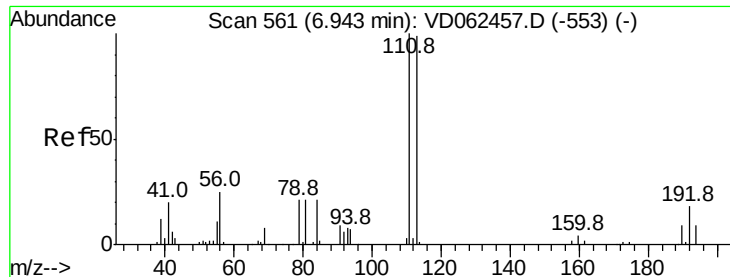
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 5/23/2019 11:20:53 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.03 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1030693		
63	18.3	0.0	32.4	
88	18.3	0.0	33.6	





#35

Dibromofluoromethane

Concen: 50.771 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

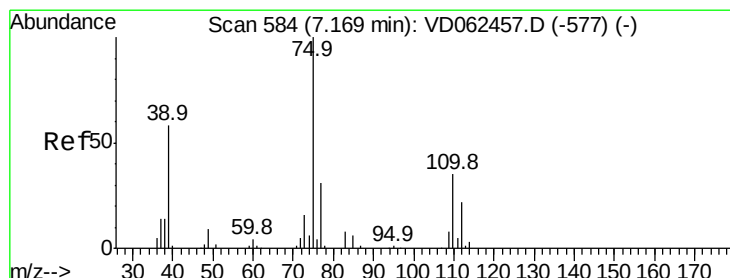
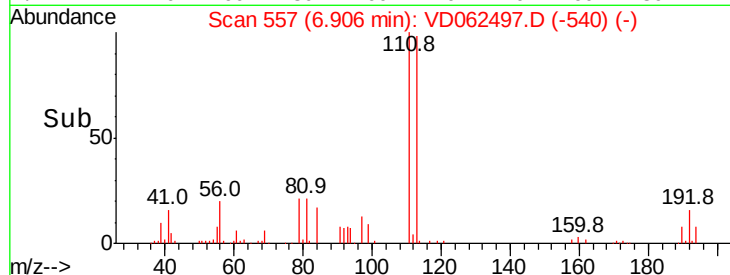
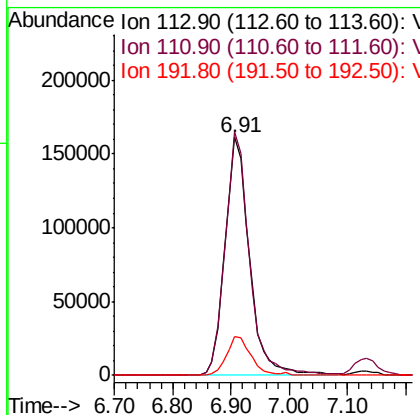
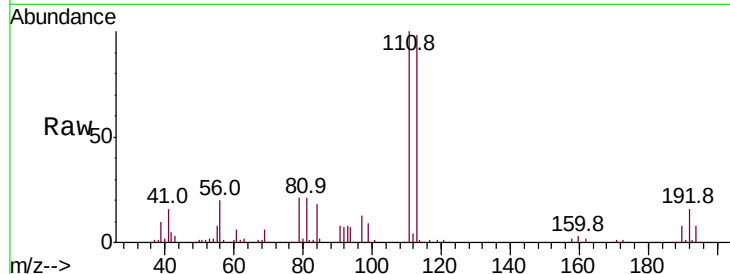
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	472076
Ion	Ratio	Lower	Upper
113	100		
111	102.3	78.5	117.7
192	16.5	13.0	19.4

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5/23/2019 11:20:53 AM



#36

1,1-Dichloropropene

Concen: 53.637 ug/l

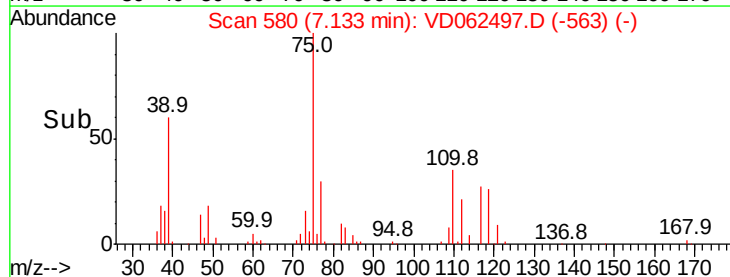
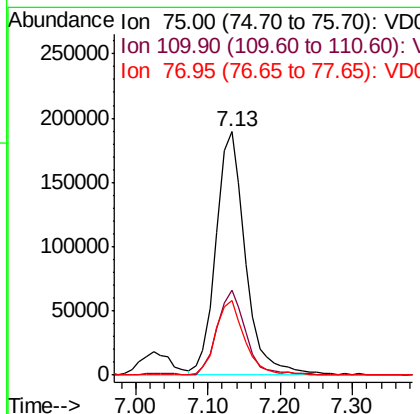
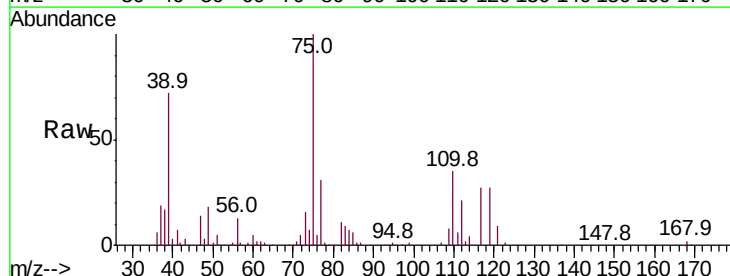
RT: 7.13 min Scan# 580

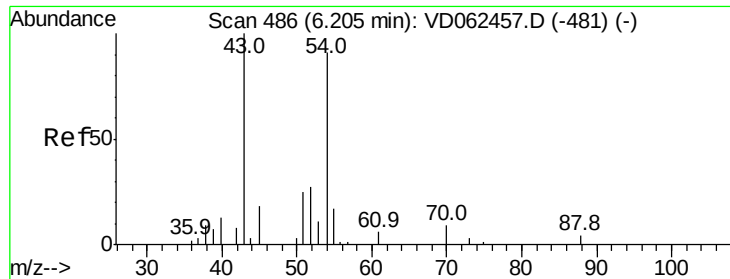
Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion:	75	Resp:	528541
Ion	Ratio	Lower	Upper
75	100		
110	35.0	19.1	57.1
77	30.5	25.6	38.4





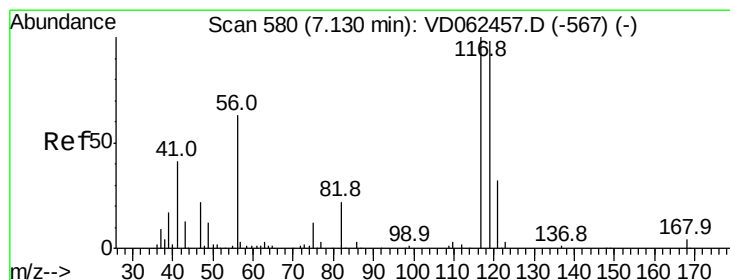
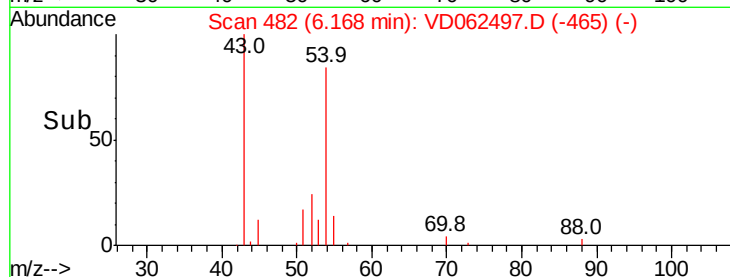
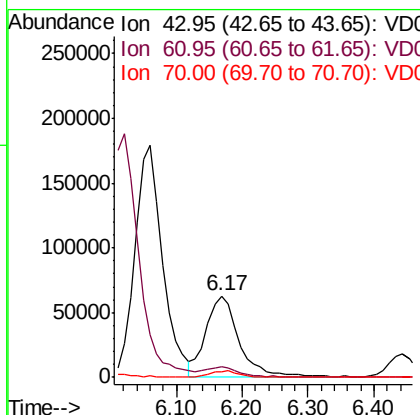
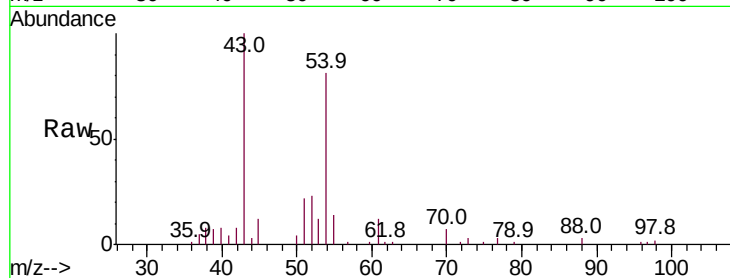
#37
Ethyl Acetate
Concen: 55.191 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.04 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.5	14.7	22.1#
70	6.9	7.8	11.6#

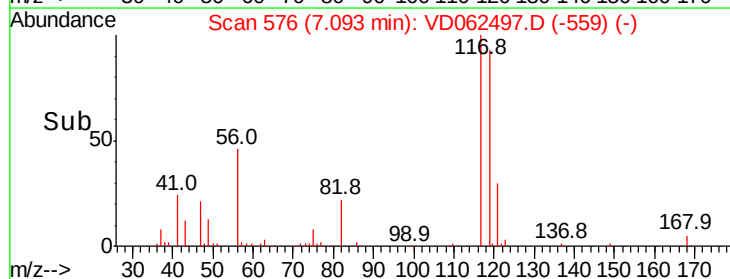
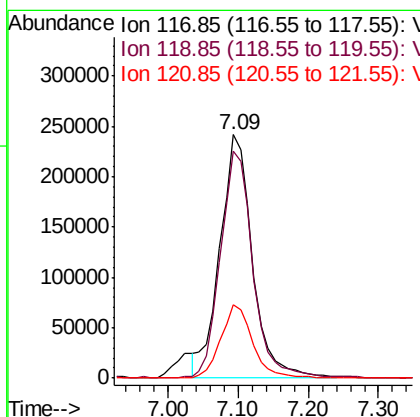
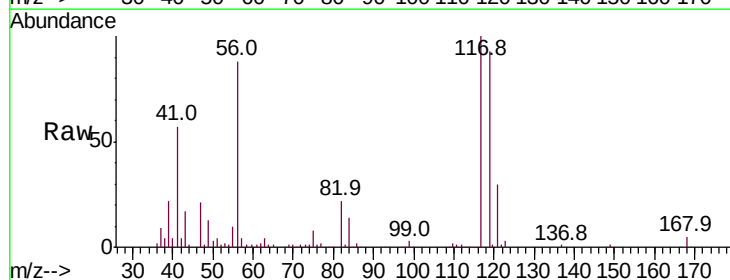
Manual Integrations
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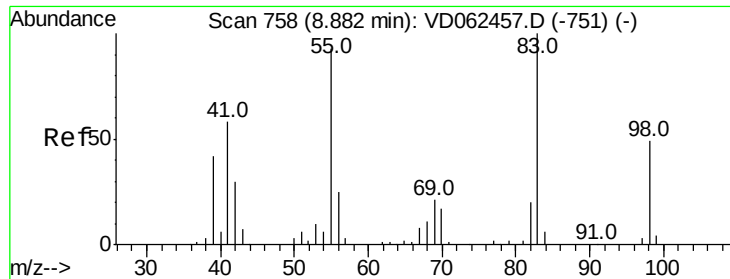
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#38
Carbon Tetrachloride
Concen: 53.340 ug/l m
RT: 7.09 min Scan# 576
Delta R.T. -0.04 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	75.8	113.8
121	30.4	25.9	38.9





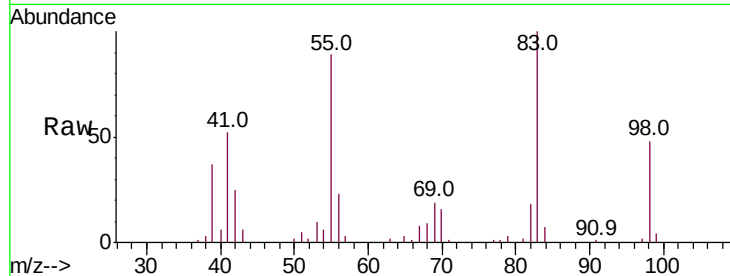
#39
Methylvlcyclohexane
Concen: 58.606 ug/l
RT: 8.85 min Scan# 755
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

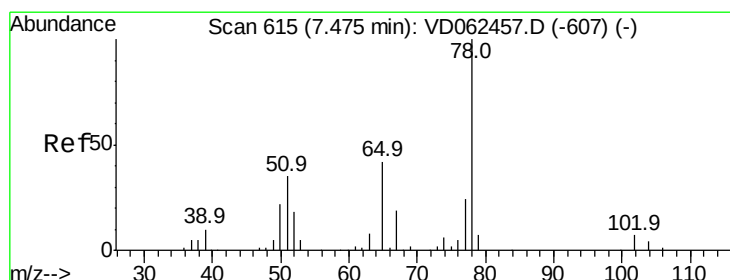
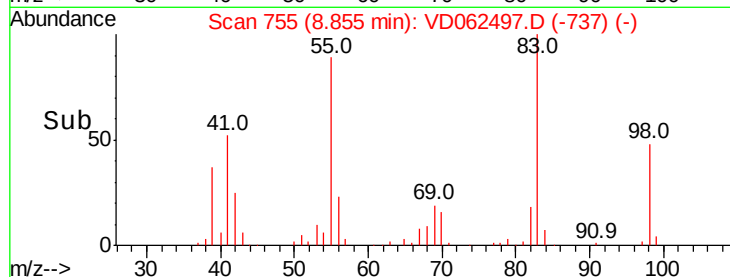
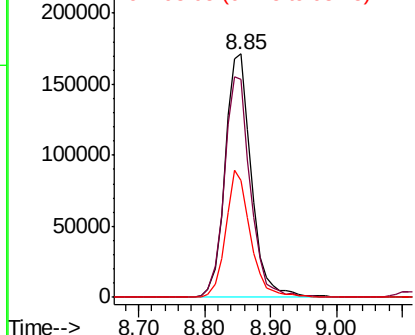
Tot Ion	83	Resp	476328
Ion Ratio	100		
Lower	68.2	102.4	
Upper	57.4		

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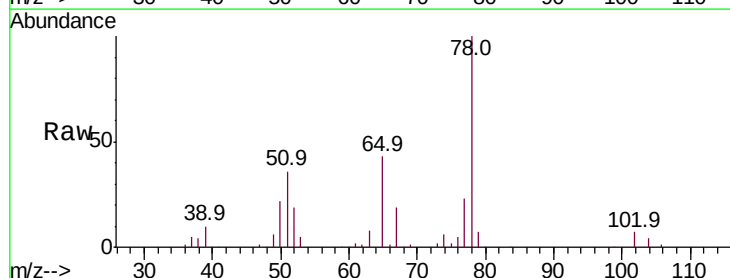


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

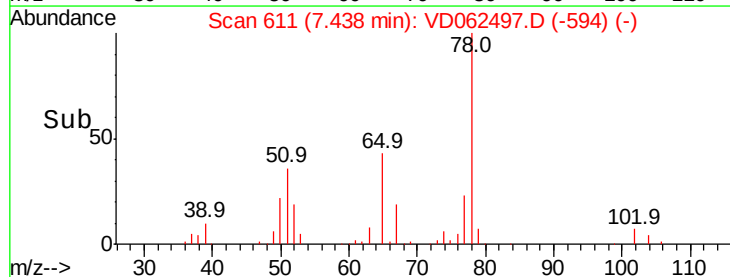
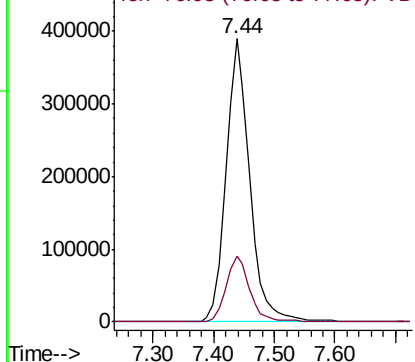


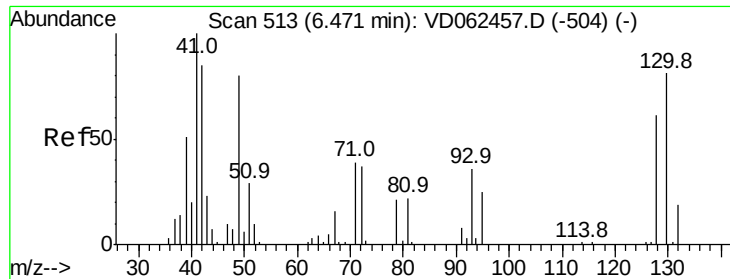
#40
Benzene
Concen: 54.346 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.04 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	78	Resp	1050461
Ion Ratio	100		
Lower	19.7	29.5	
Upper			



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





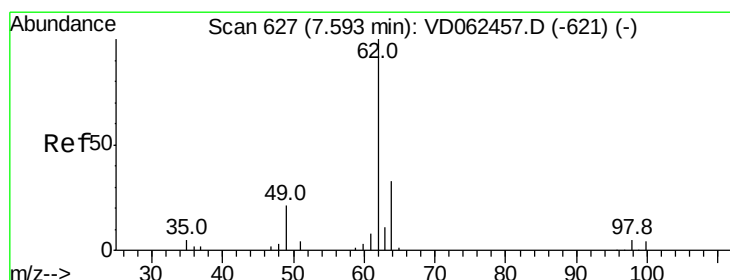
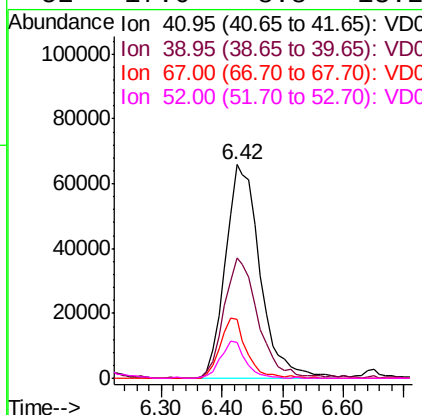
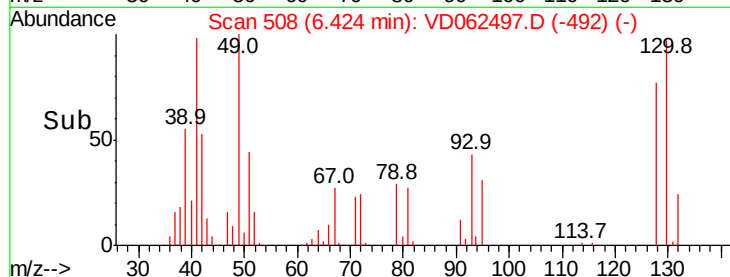
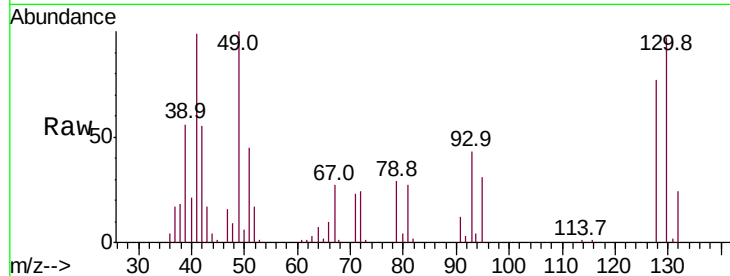
#41
Methacrylonitrile
Concen: 54.322 ug/l
RT: 6.42 min Scan# 508
Delta R.T. -0.05 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	56.4	34.1	51.1#
67	27.5	23.8	35.6
52	17.0	8.8	13.2#

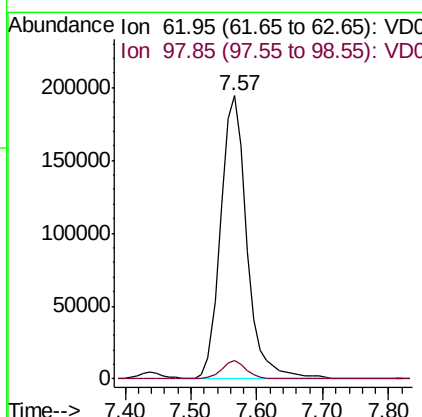
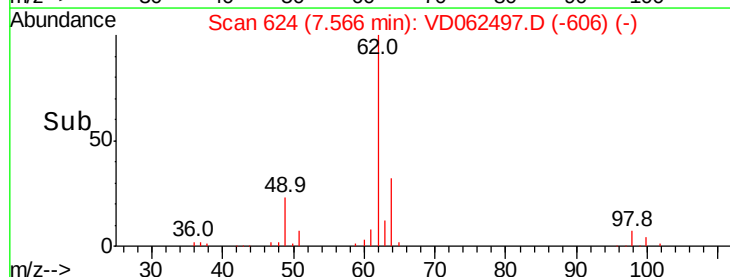
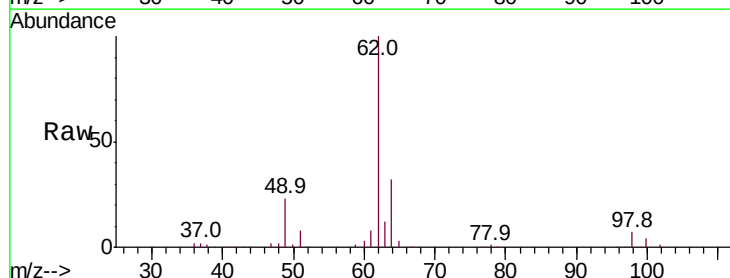
Manual Integrations
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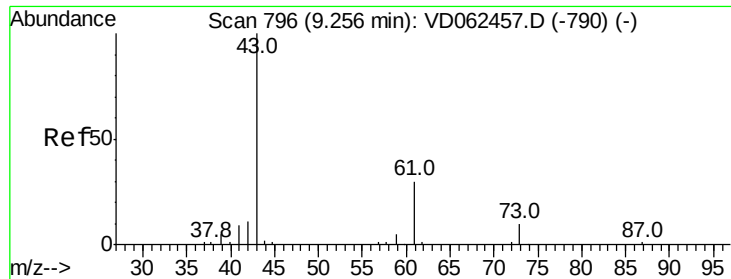
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#42
1,2-Dichloroethane
Concen: 52.710 ug/l
RT: 7.57 min Scan# 624
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.5	0.0	17.8





#43

Isopropyl Acetate

Concen: 54.392 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

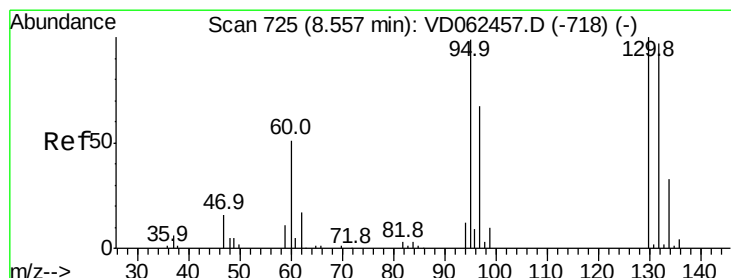
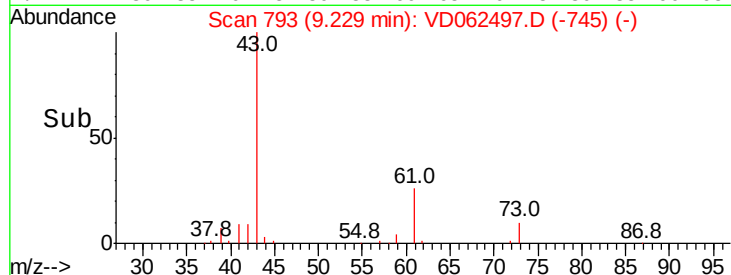
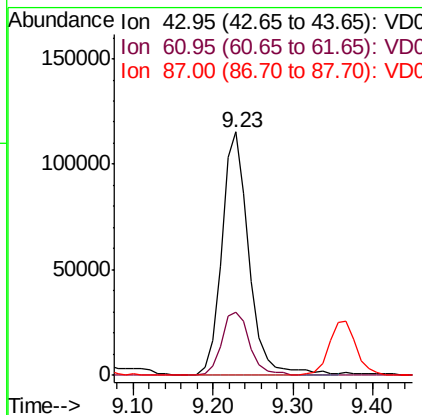
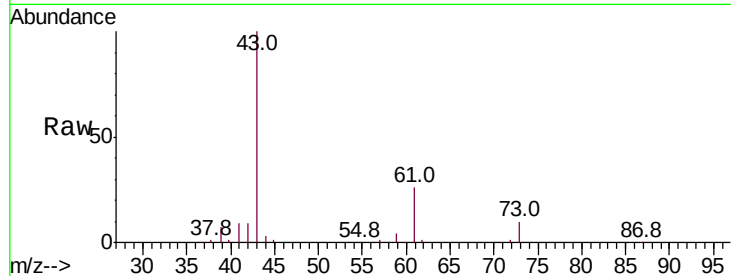
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	276226
Ion	Ratio	Lower	Upper
43	100		
61	26.0	25.1	37.7
87	0.4	0.0	0.0#

Manual Integrations
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#44

Trichloroethene

Concen: 52.249 ug/l

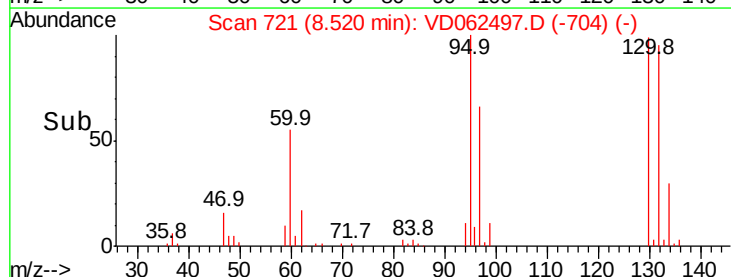
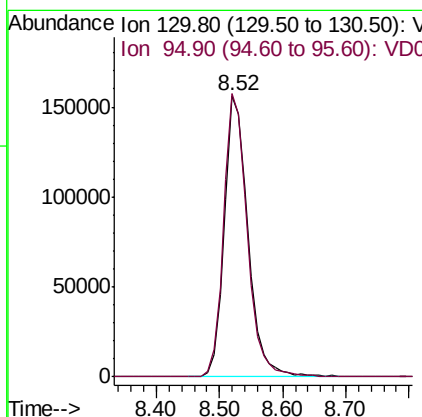
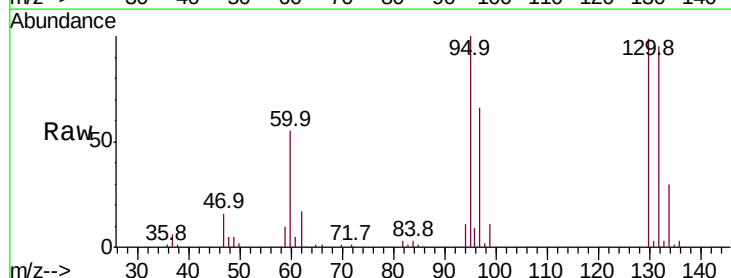
RT: 8.52 min Scan# 721

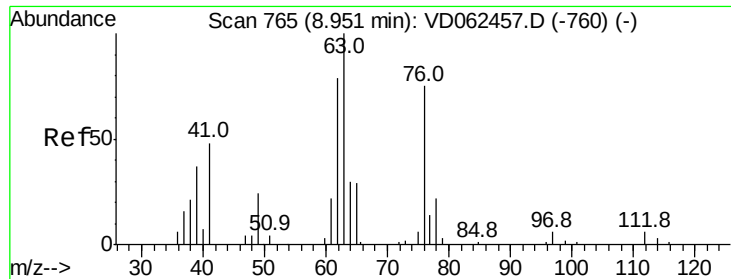
Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion:	130	Resp:	404364
Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	174.0





#45

1,2-Dichloropropane

Concen: 50.348 ug/l

RT: 8.93 min Scan# 763

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 237162

Ion Ratio Lower Upper

63 100

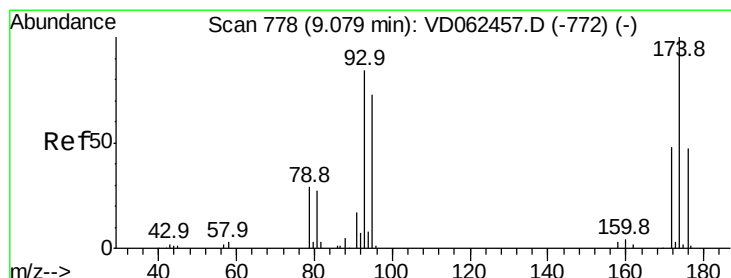
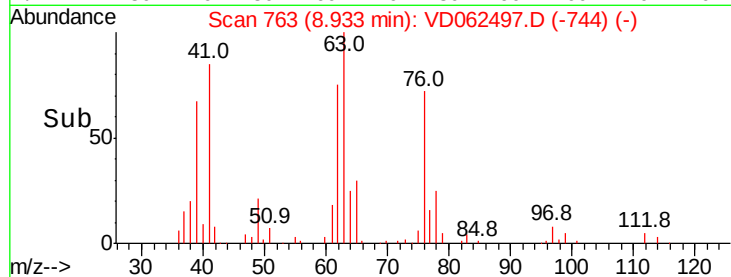
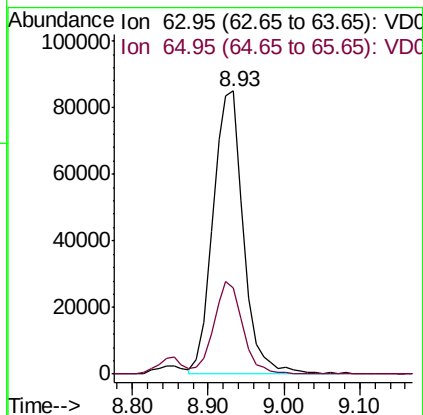
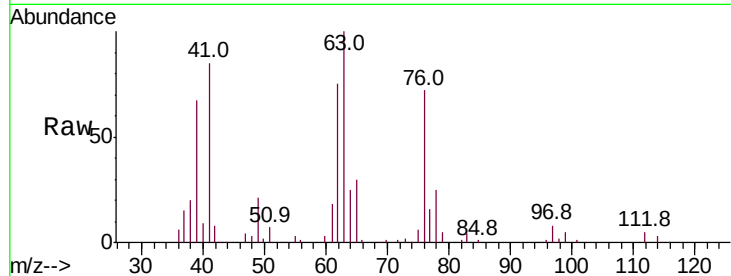
65 30.4 23.8 35.6

Manual Integrations

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MMDadoda

5/23/2019 11:20:53 AM



#46

Dibromomethane

Concen: 54.571 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

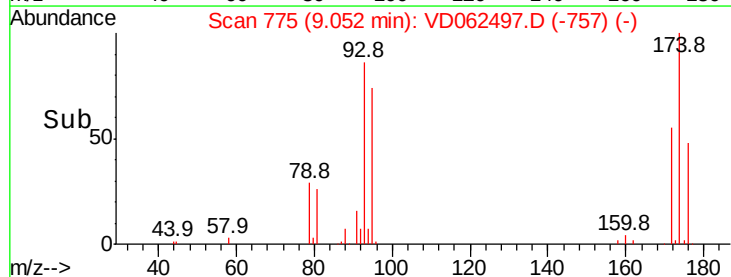
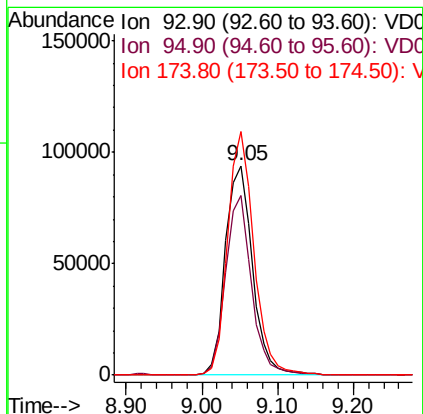
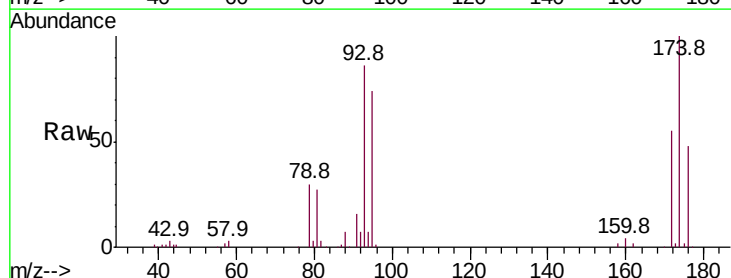
Tgt Ion: 93 Resp: 233010

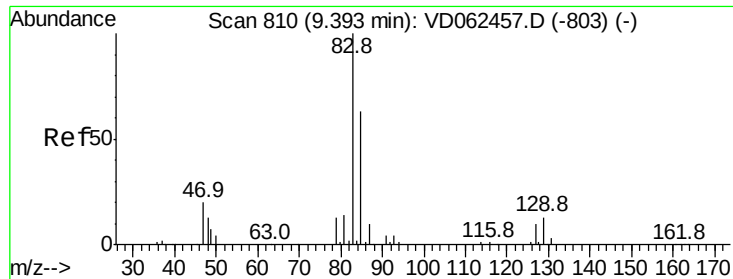
Ion Ratio Lower Upper

93 100

95 85.7 64.8 97.2

174 116.3 79.3 118.9





#47

Bromodichloromethane

Concen: 55.321 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

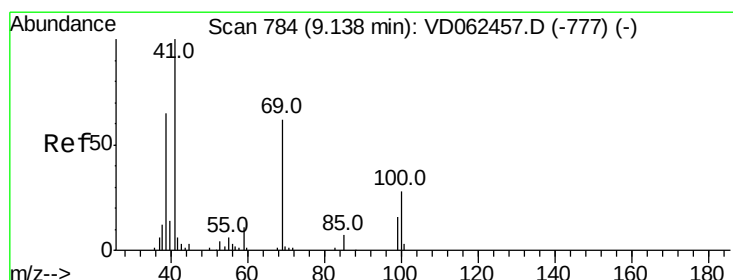
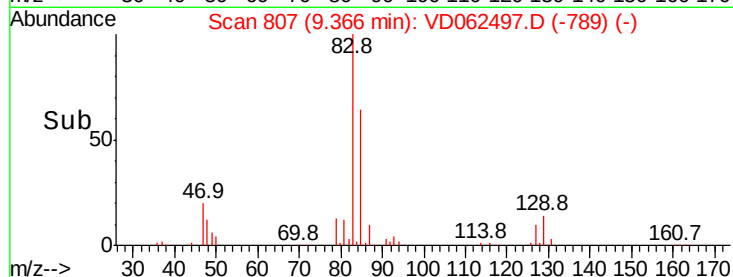
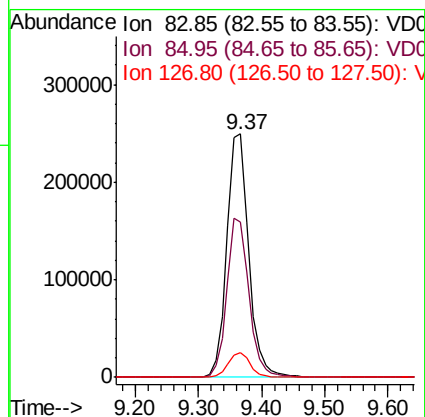
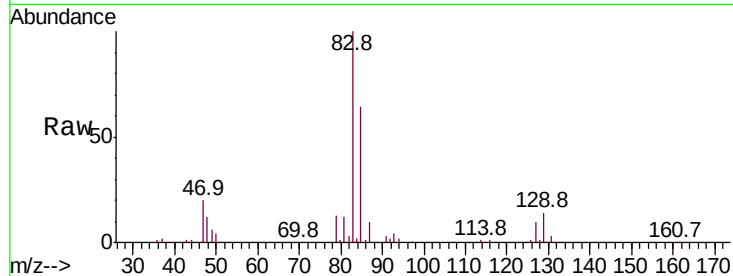
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	600903
Ion Ratio	Lower	Upper	
83	100		
85	63.9	50.9	76.3
127	10.4	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 55.533 ug/l

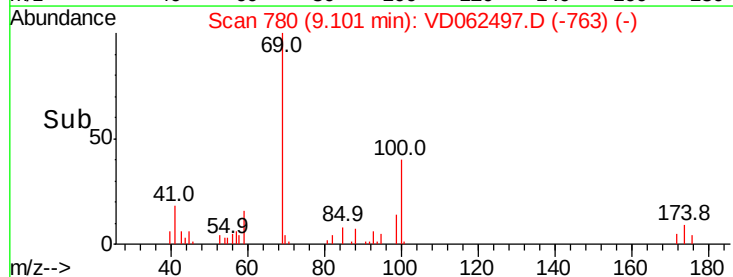
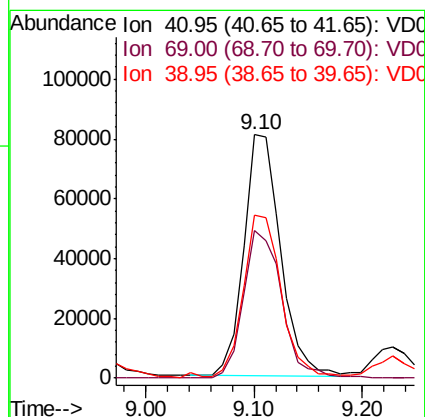
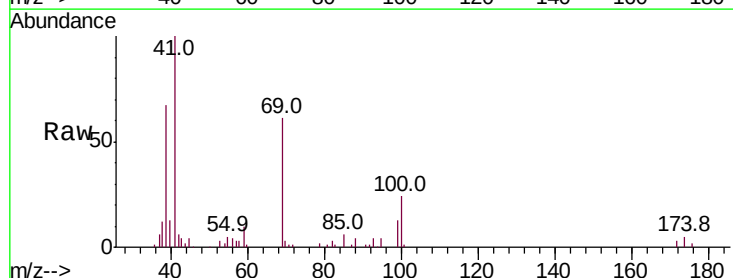
RT: 9.10 min Scan# 780

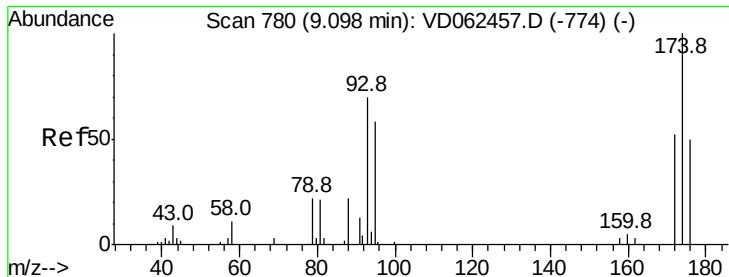
Delta R.T. -0.04 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion:	41	Resp:	189786
Ion Ratio	Lower	Upper	
41	100		
69	60.6	64.2	96.2#
39	66.7	46.8	70.2





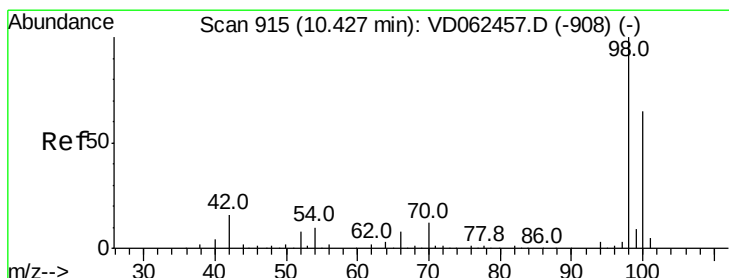
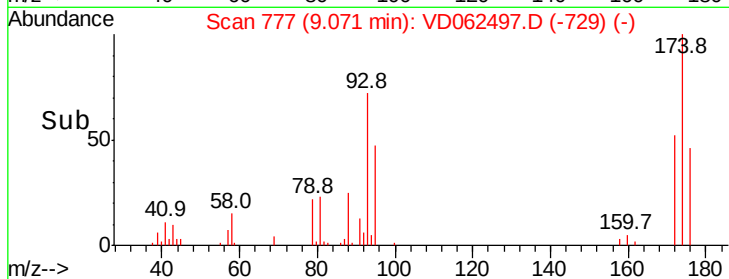
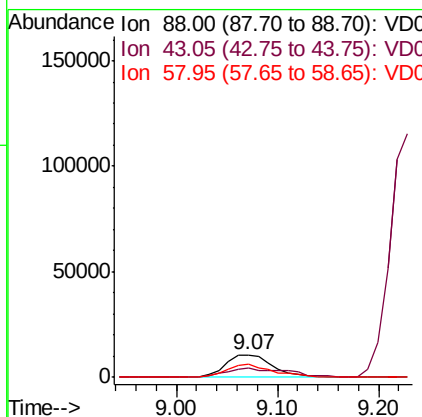
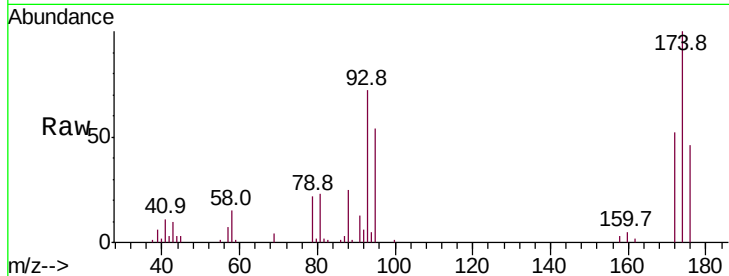
#49
1,4-Dioxane
Concen: 1133.185 ug/l
RT: 9.07 min Scan# 777
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.4	23.4	35.0#
58	58.3	44.0	66.0

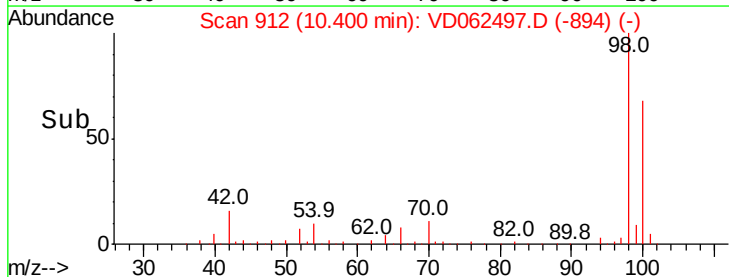
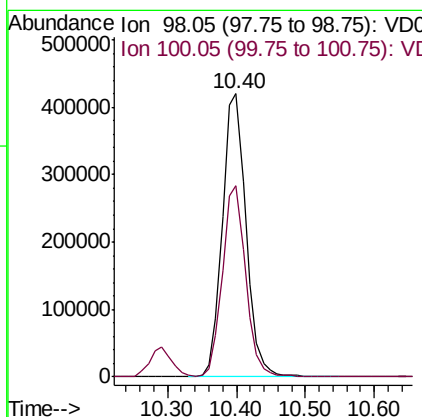
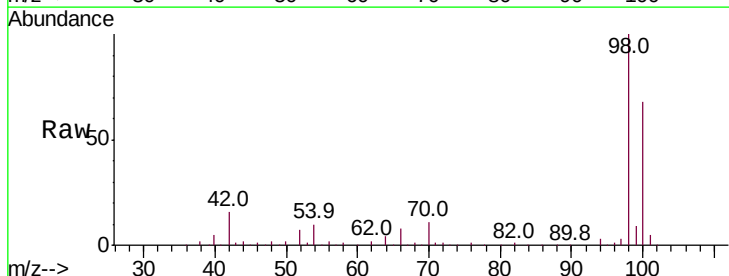
Manual Integrations
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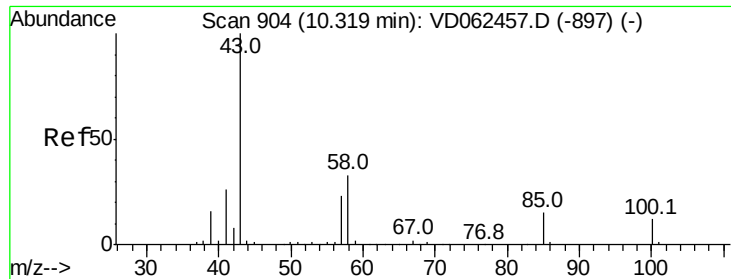
MMDadoda
5/23/2019 11:20:53 AM



#50
Toluene-d8
Concen: 49.131 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 268.505 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 900818

Ion Ratio Lower Upper

43 100

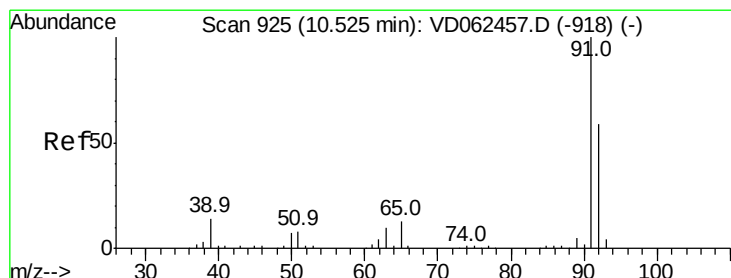
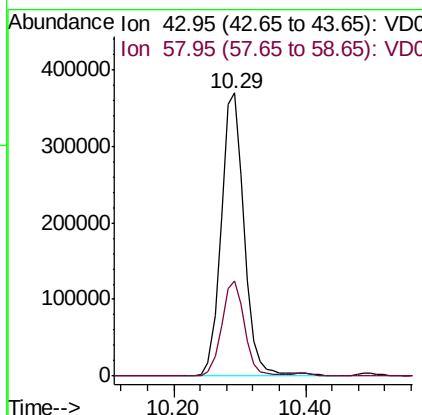
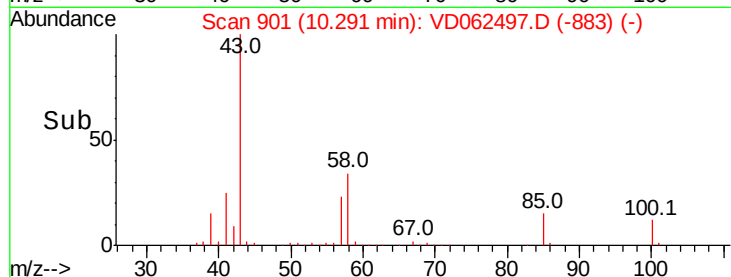
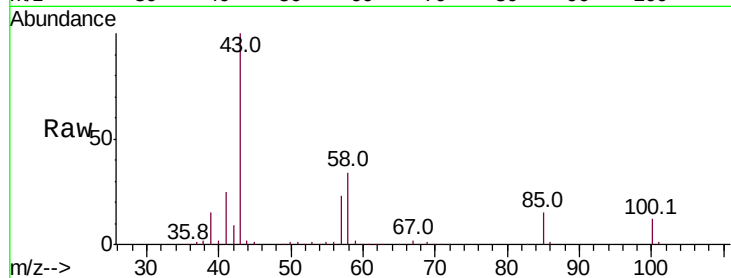
58 33.7 30.4 45.6

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#52

Toluene

Concen: 54.382 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.03 min

Lab File: VD062497.D

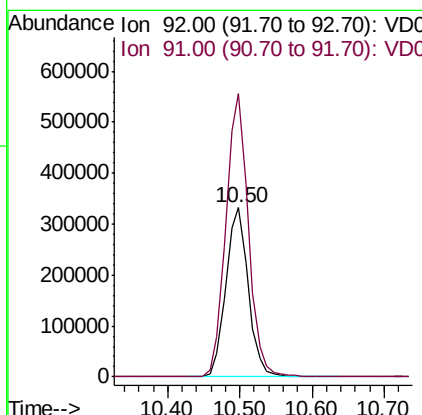
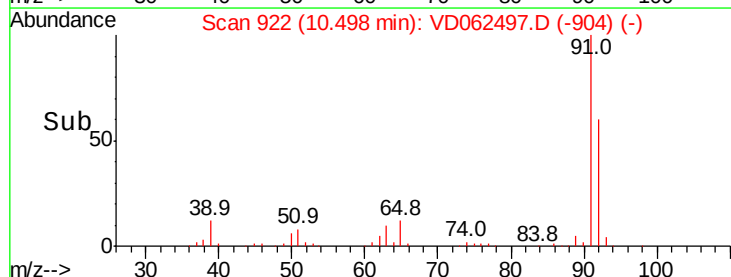
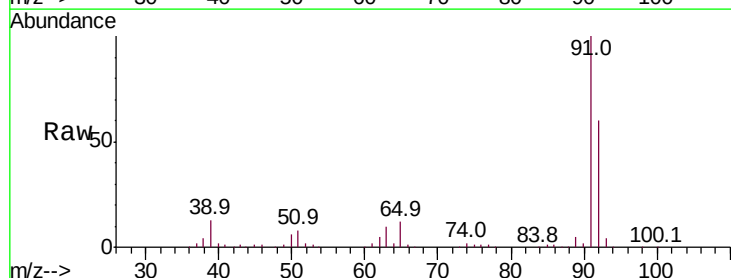
Acq: 22 May 2019 12:00

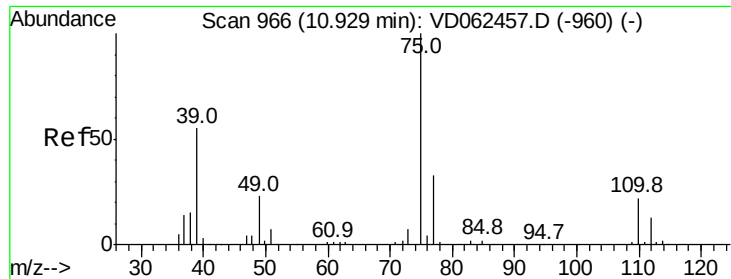
Tgt Ion: 92 Resp: 719601

Ion Ratio Lower Upper

92 100

91 167.1 136.6 204.8





#53

t-1,3-Dichloropropene

Concen: 54.514 ug/l

RT: 10.90 min Scan# 963

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 492986

Ion Ratio Lower Upper

75 100

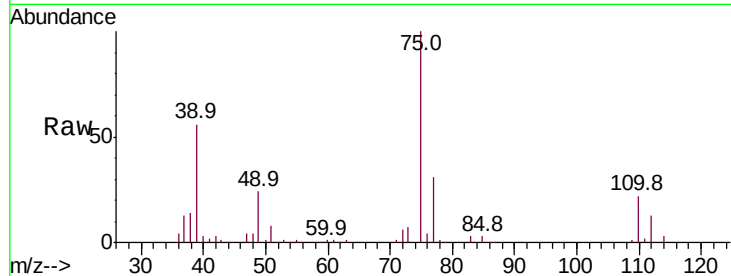
77 30.7 25.8 38.8

Manual Integrations

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MMDadoda

5/23/2019 11:20:53 AM



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.90

250000

200000

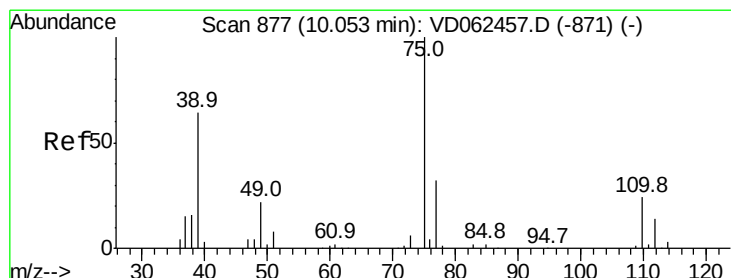
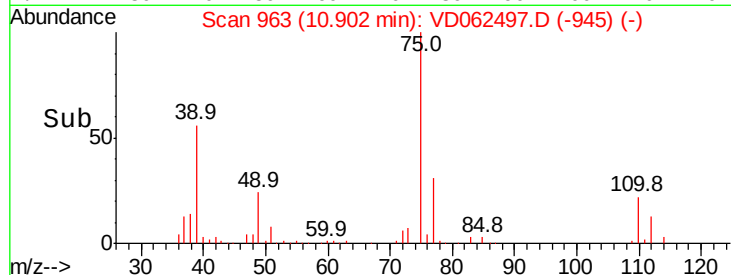
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 55.148 ug/l

RT: 10.03 min Scan# 874

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

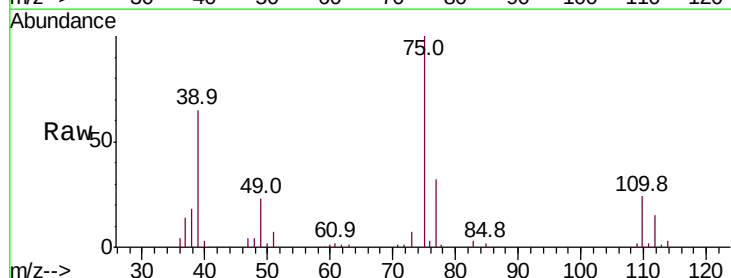
Tgt Ion: 75 Resp: 520379

Ion Ratio Lower Upper

75 100

77 31.7 25.5 38.3

39 64.8 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

300000

250000

200000

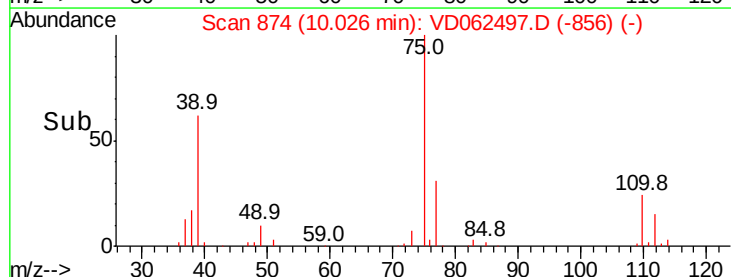
150000

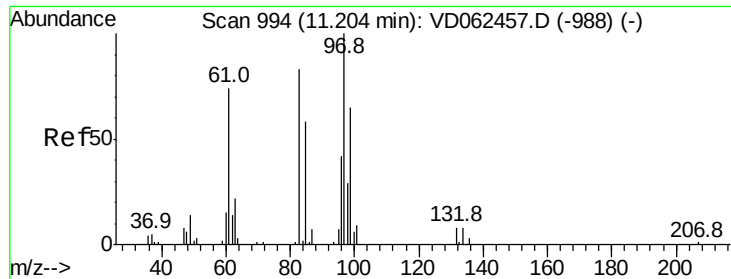
100000

50000

0

Time-->





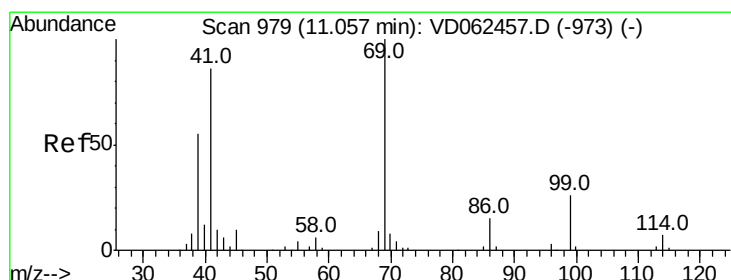
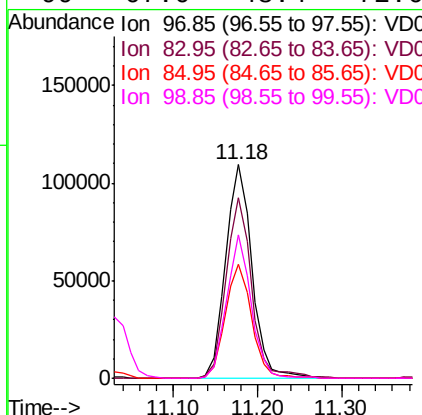
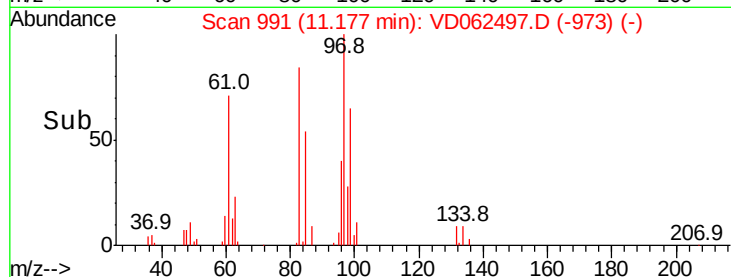
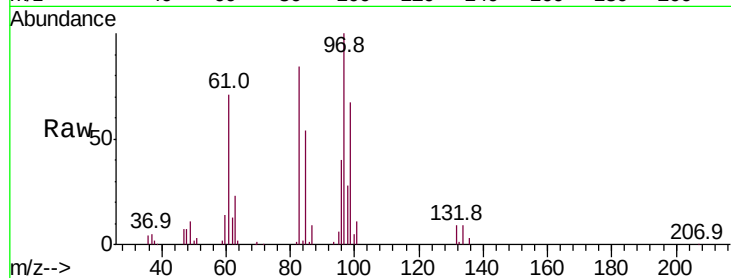
#55
 1,1,2-Trichloroethane
 Concen: 53.146 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. -0.03 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.3	65.7	98.5
85	53.6	45.6	68.4
99	67.0	48.4	72.6

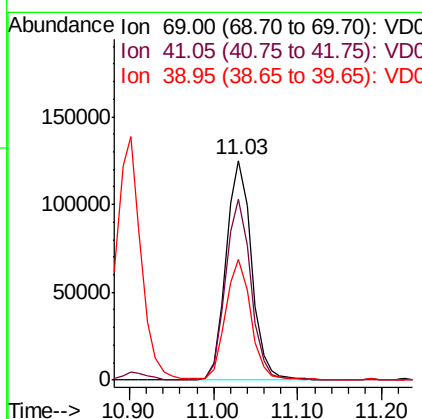
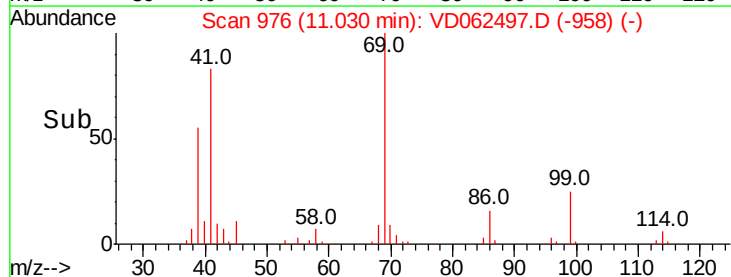
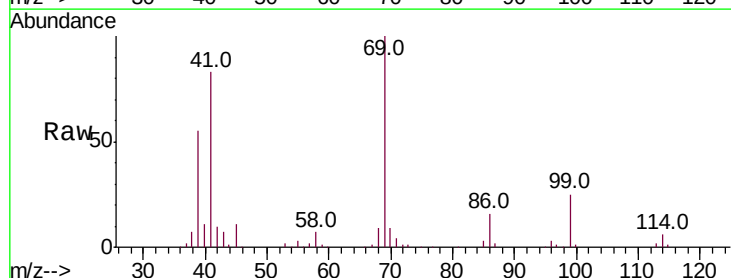
Manual Integrations
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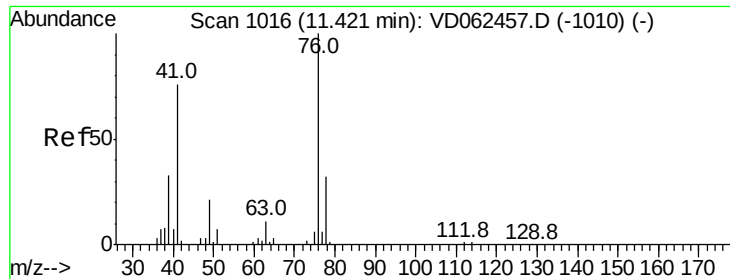
MMDadoda
 5/23/2019 11:20:53 AM



#56
 Ethyl methacrylate
 Concen: 54.991 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. -0.03 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
69	100		
41	82.5	56.3	84.5
39	55.2	29.4	44.2#





#57

1,3-Dichloropropane

Concen: 49.506 ug/l

RT: 11.39 min Scan# 1013

Delta R.T. -0.03 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 340488

Ion Ratio Lower Upper

76 100

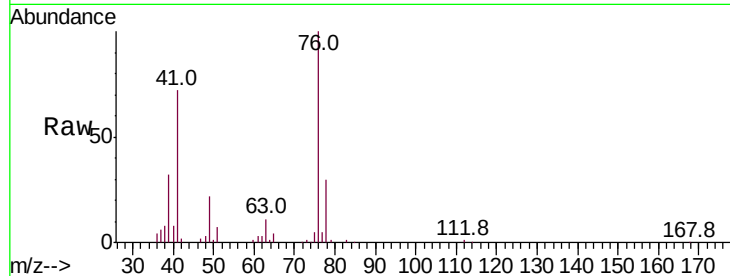
78 30.0 26.2 39.2

Manual Integrations

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MMDadoda

5/23/2019 11:20:53 AM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.39

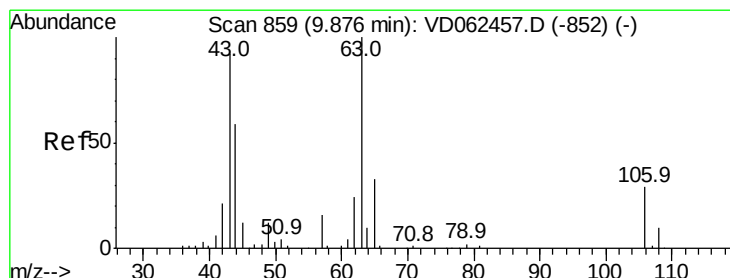
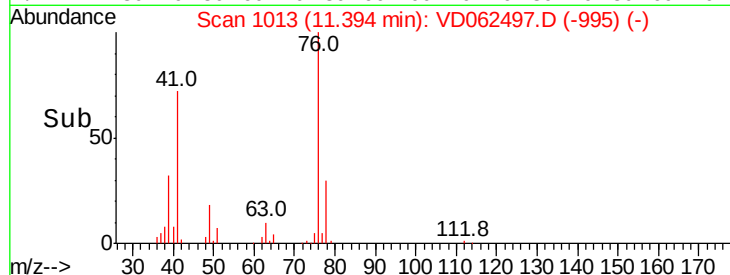
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 240.113 ug/l

RT: 9.85 min Scan# 856

Delta R.T. -0.03 min

Lab File: VD062497.D

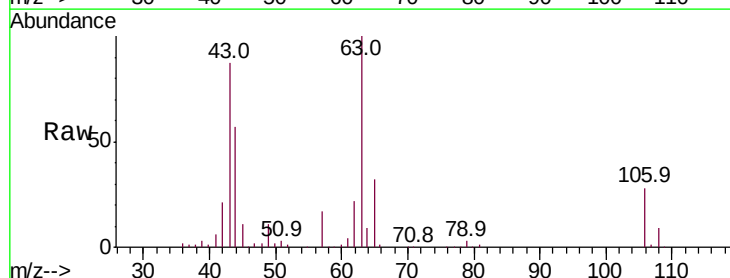
Acq: 22 May 2019 12:00

Tgt Ion: 63 Resp: 591113

Ion Ratio Lower Upper

63 100

106 28.4 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.85

300000

250000

200000

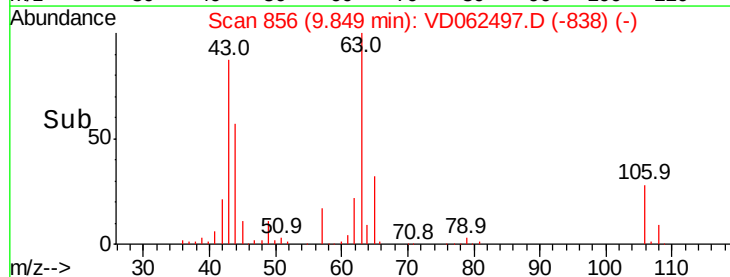
150000

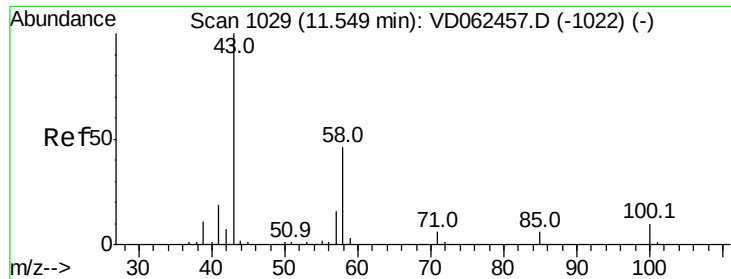
100000

50000

0

Time-->





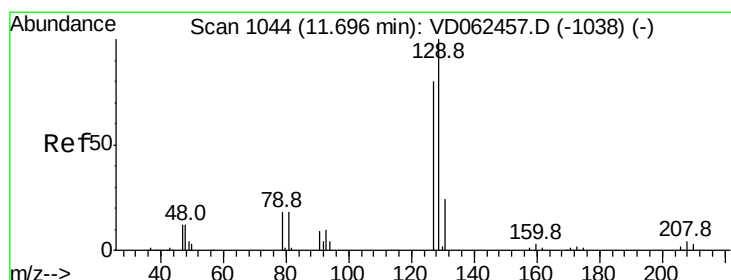
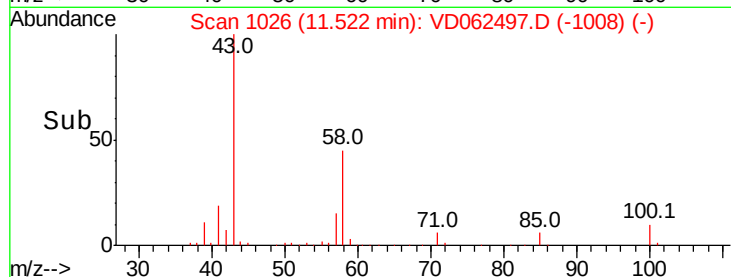
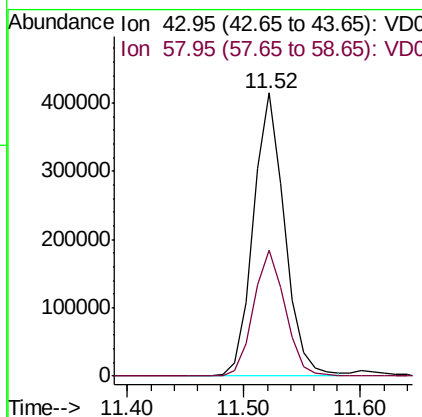
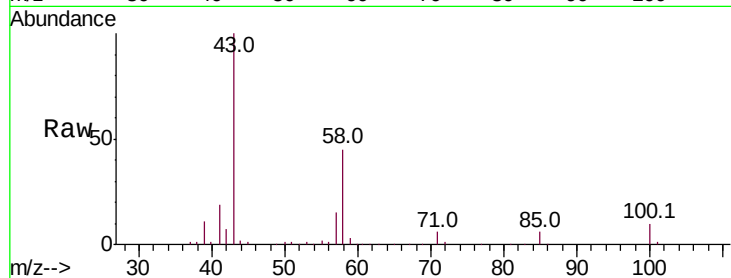
#59
2-Hexanone
Concen: 314.125 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 765933
Ion Ratio Lower Upper
43 100
58 44.7 25.4 76.4

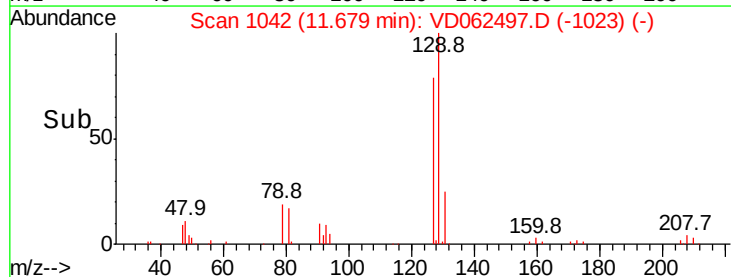
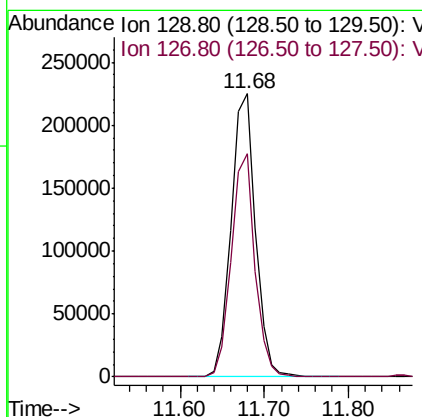
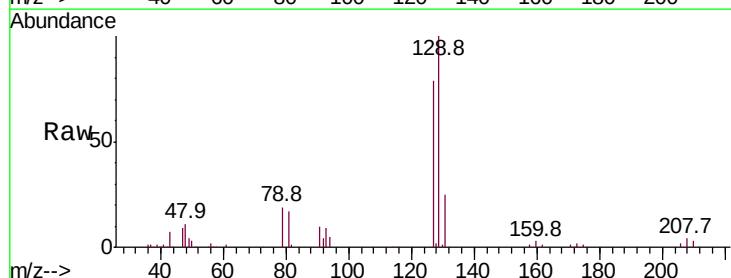
Manual Integrations
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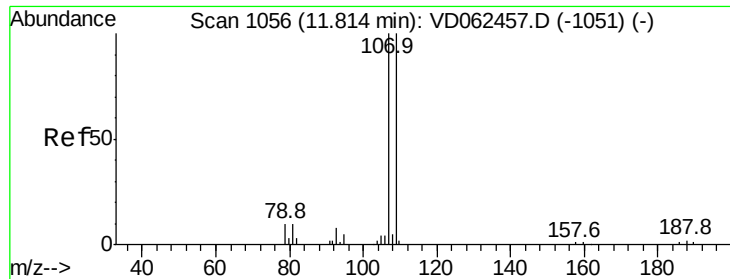
MMDadoda
5/23/2019 11:20:53 AM



#60
Dibromochloromethane
Concen: 52.487 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 129 Resp: 452111
Ion Ratio Lower Upper
129 100
127 78.9 38.0 113.9





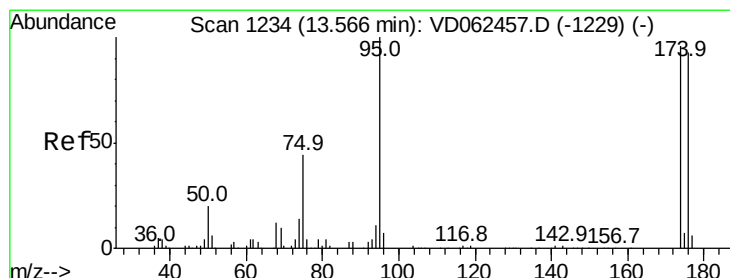
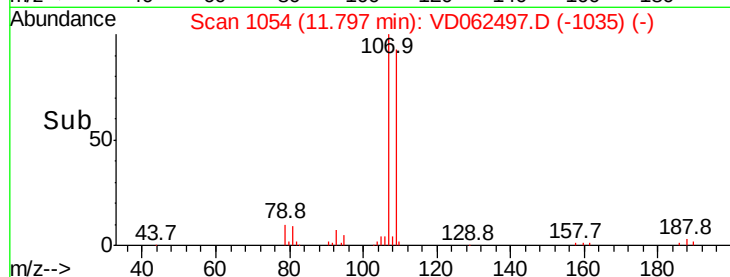
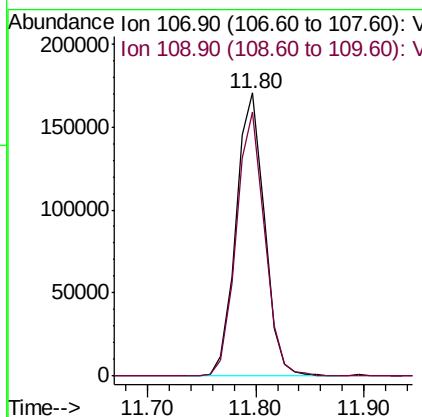
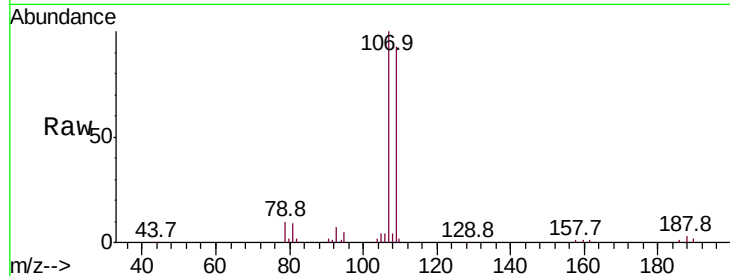
#61
 1,2-Dibromoethane
 Concen: 56.488 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	312197		
109	93.3	78.3	117.5	

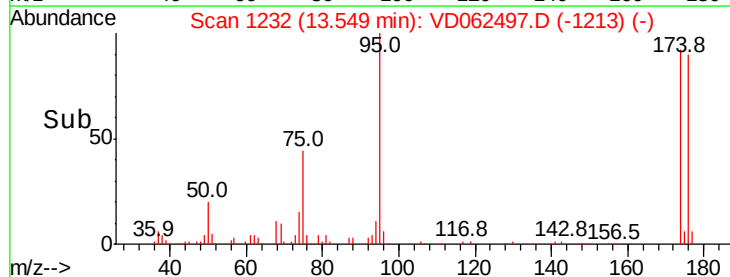
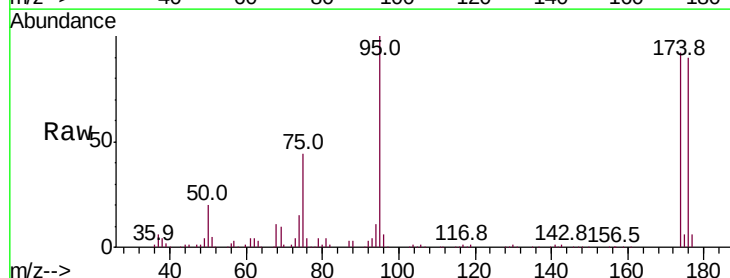
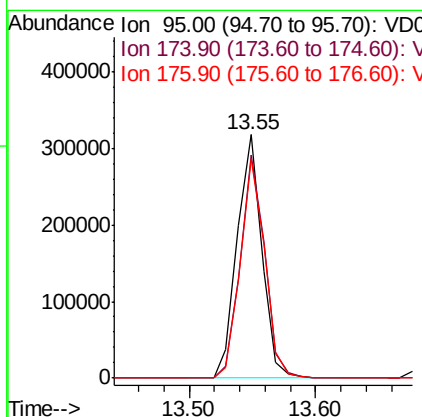
Manual Integrations
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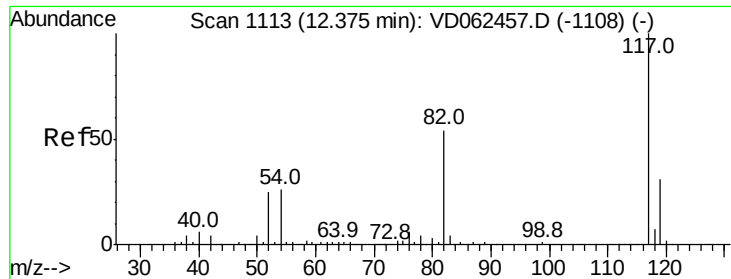
MMDadoda
 5/23/2019 11:20:53 AM



#62
 4-Bromofluorobenzene
 Concen: 48.048 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	427671		
174	91.6	0.0	181.8	
176	90.3	0.0	174.4	





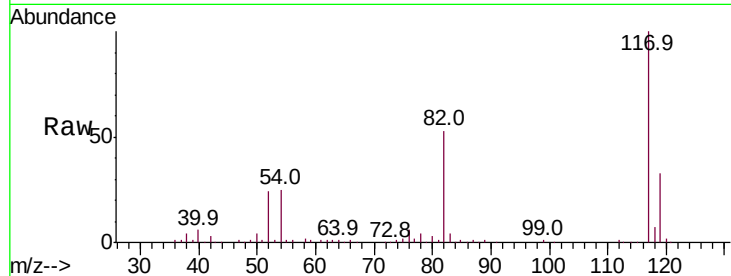
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	809243		
82	52.6	36.2	54.2	
119	33.4	26.2	39.4	

Manual Integrations
APPROVED

MMDadoda
5/23/2019 11:20:53 AM

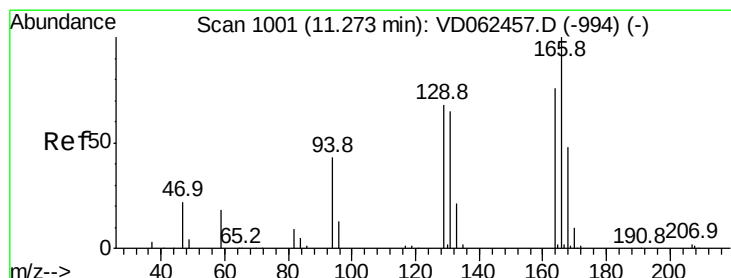
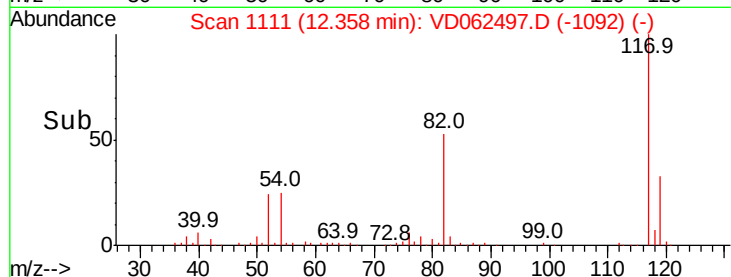
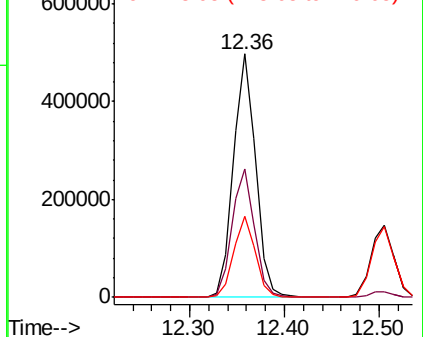


Abundance

Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64
Tetrachloroethene
Concen: 55.894 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.03 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	378726		
166	132.8	101.5	152.3	
129	88.2	74.6	112.0	
131	88.2	72.6	108.8	

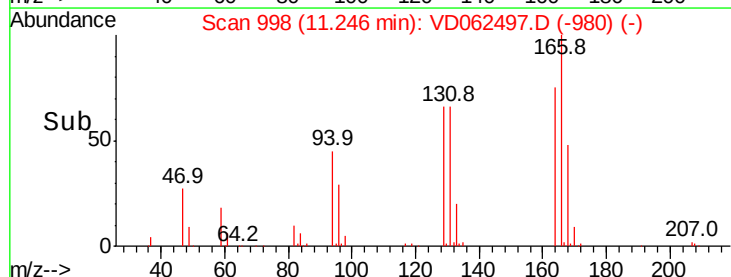
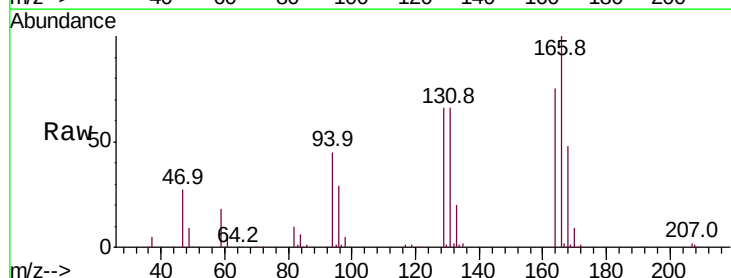
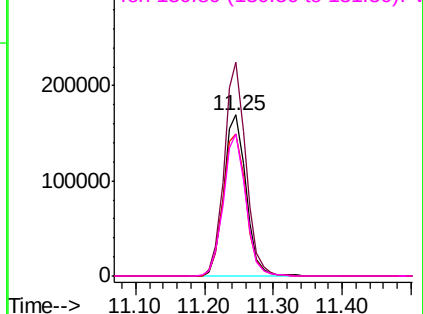
Abundance

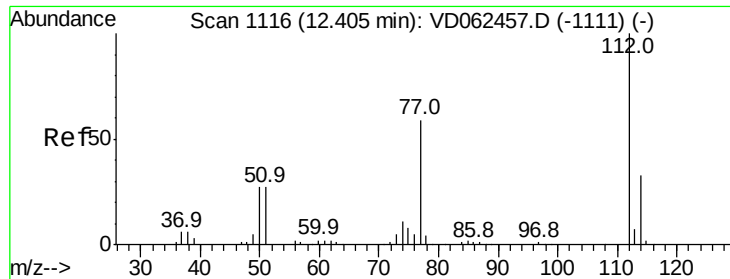
Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





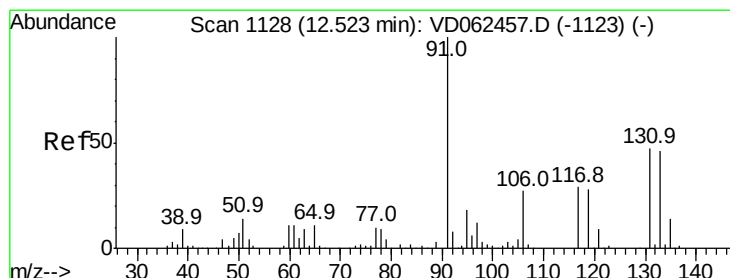
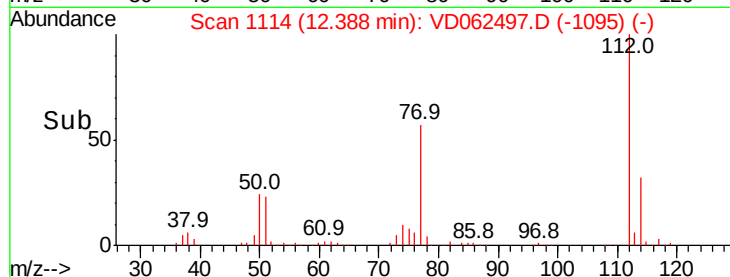
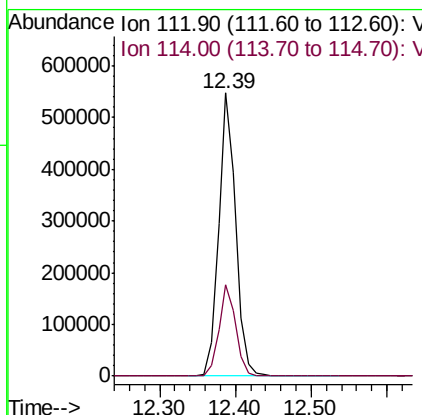
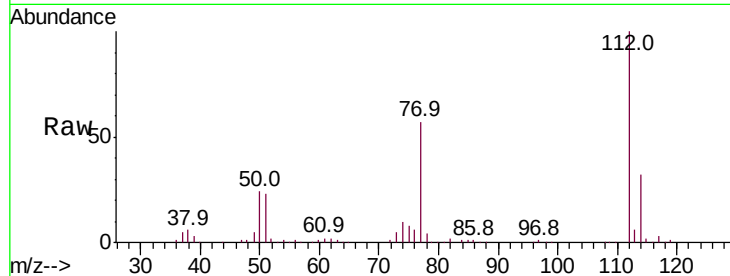
#65
Chlorobenzene
Concen: 55.433 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.8	38.8

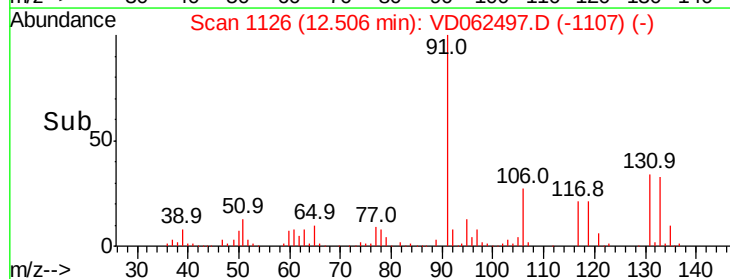
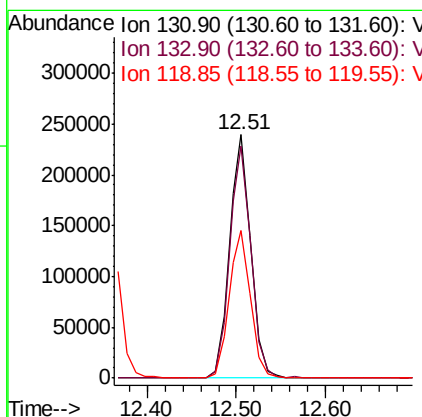
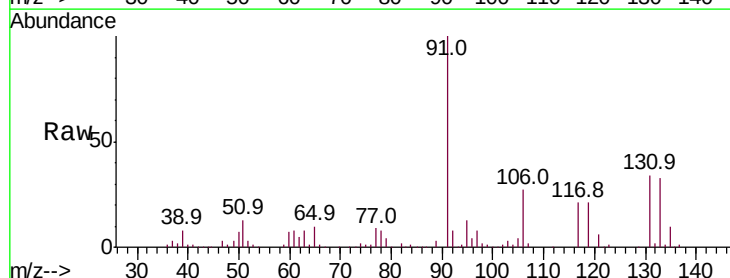
Manual Integrations
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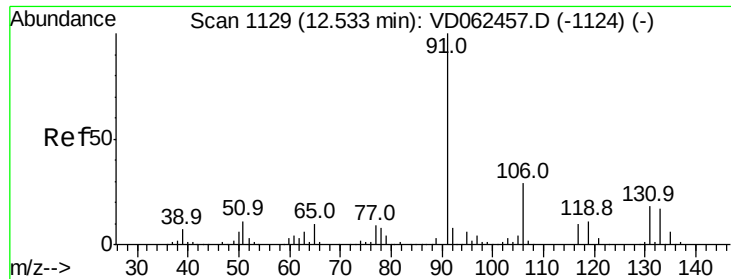
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#66
1,1,1,2-Tetrachloroethane
Concen: 55.956 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	48.6	145.8
119	60.6	34.7	104.1





#67

Ethyl Benzene

Concen: 58.384 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1564961

Ion Ratio Lower Upper

91 100

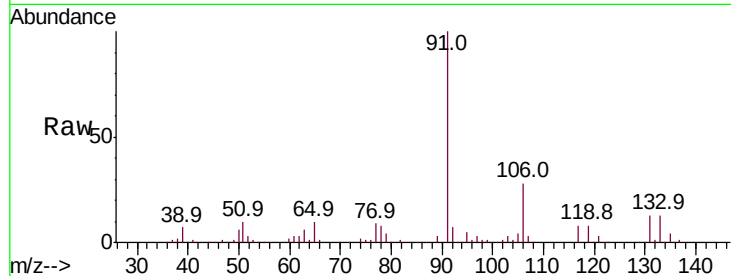
106 28.1 24.7 37.1

Manual Integrations

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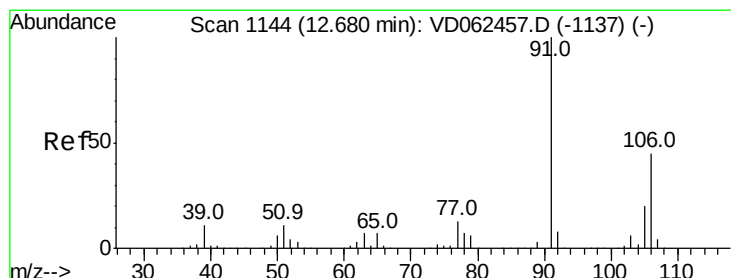
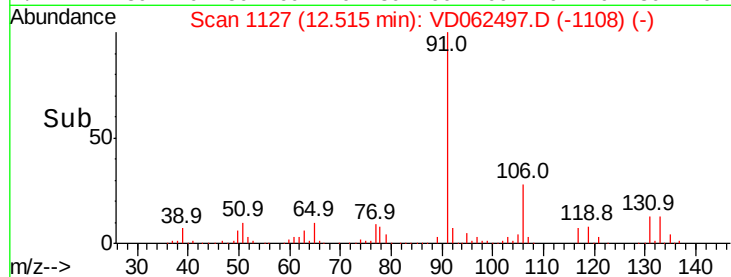
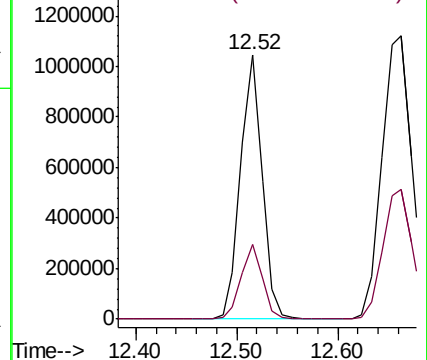
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 107.569 ug/l

RT: 12.66 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VD062497.D

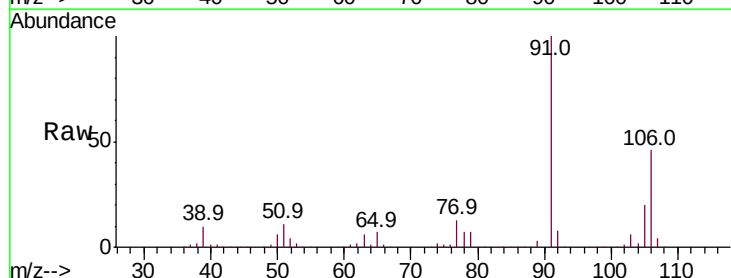
Acq: 22 May 2019 12:00

Tgt Ion:106 Resp: 1035008

Ion Ratio Lower Upper

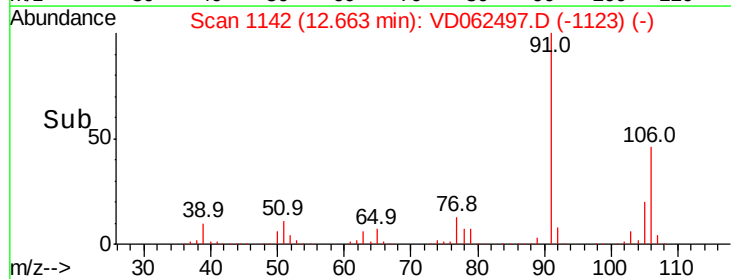
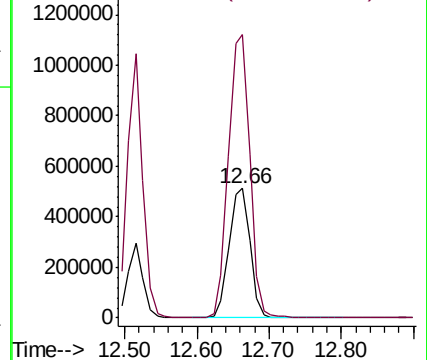
106 100

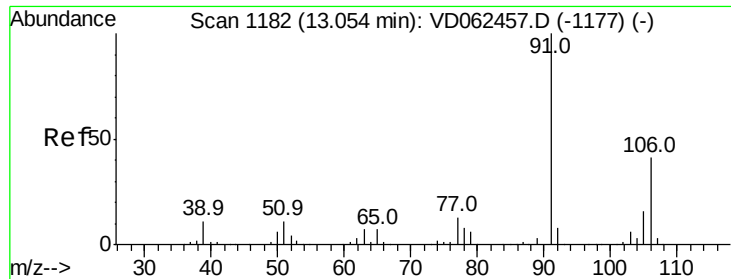
91 218.5 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC





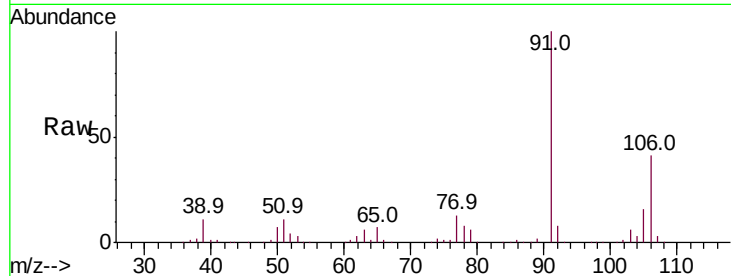
#69
o-Xylene
Concen: 52.034 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

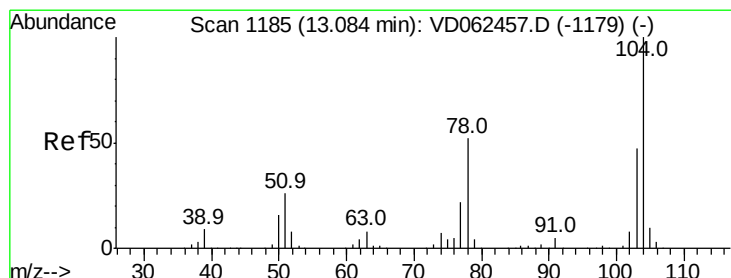
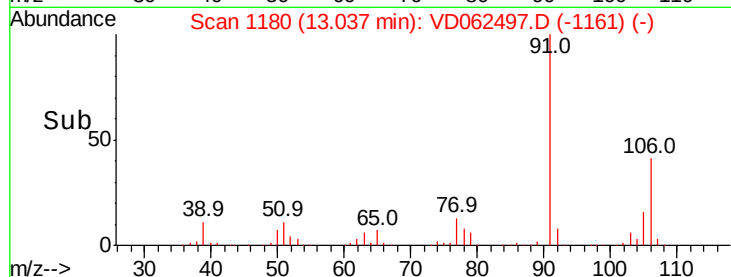
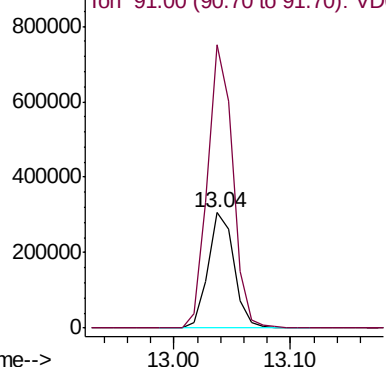
Tot Ion:106 Resp: 472387
Ion Ratio Lower Upper
106 100
91 244.8 106.7 319.9

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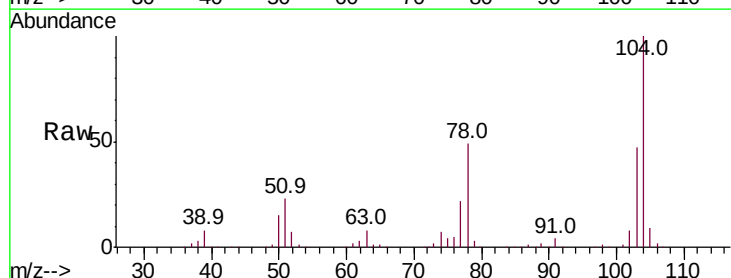


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

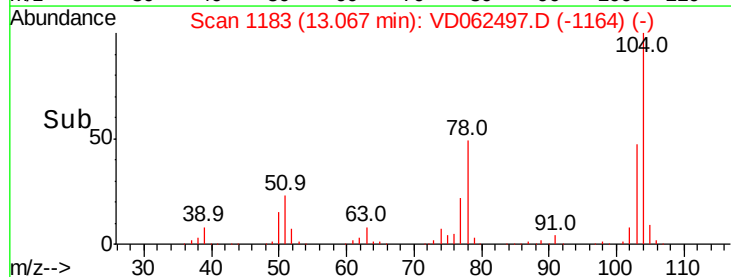
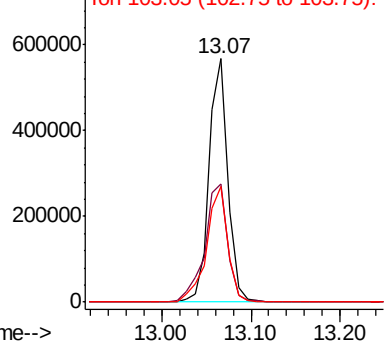


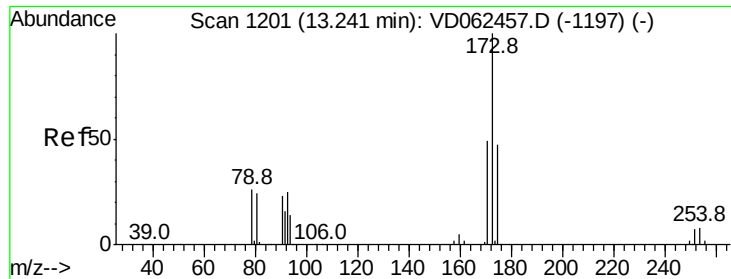
#70
Styrene
Concen: 54.115 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion:104 Resp: 835750
Ion Ratio Lower Upper
104 100
78 48.5 35.4 53.2
103 47.4 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





#71

Bromoform

Concen: 58.055 ug/l

RT: 13.22 min Scan# 1199

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 276959

Ion Ratio Lower Upper

173 100

175 48.1 24.4 73.4

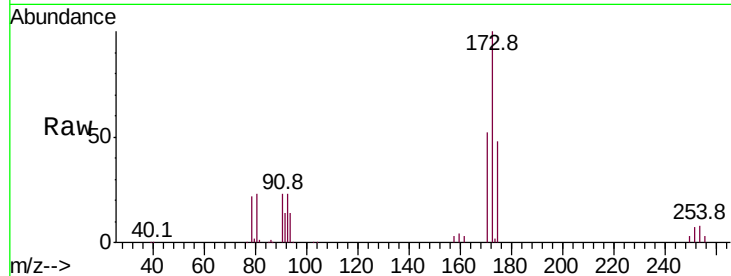
254 8.0 5.4 8.2

Manual Integrations

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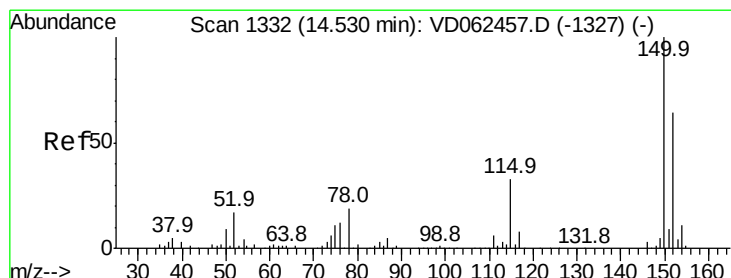
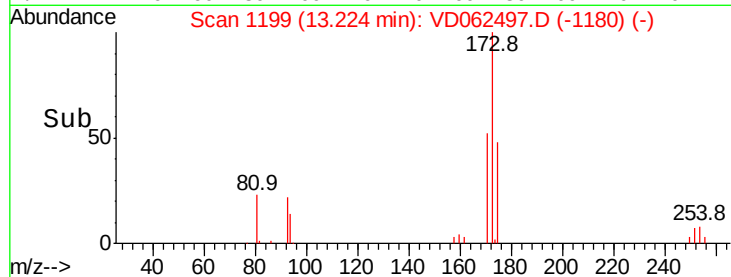
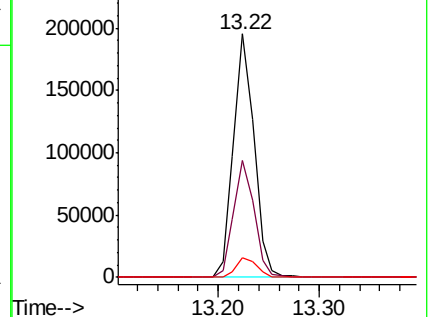
5/23/2019 11:20:53 AM



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: 14.51 min Scan# 1330

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

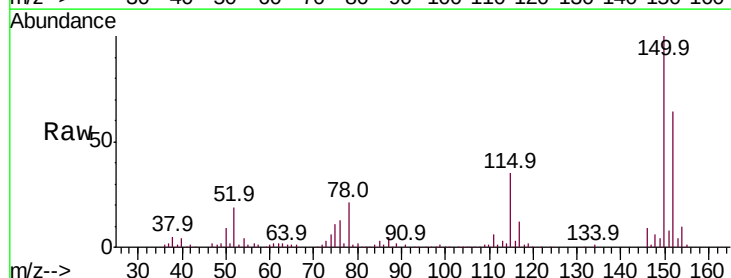
Tgt Ion:152 Resp: 426891

Ion Ratio Lower Upper

152 100

115 55.3 30.9 92.7

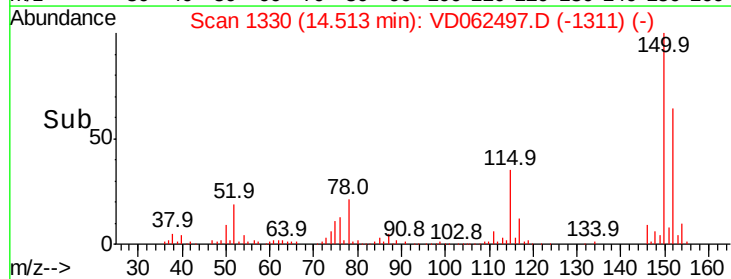
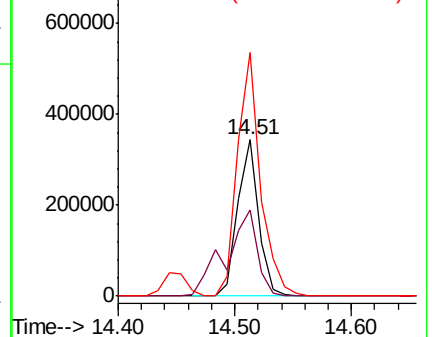
150 156.0 0.0 314.8

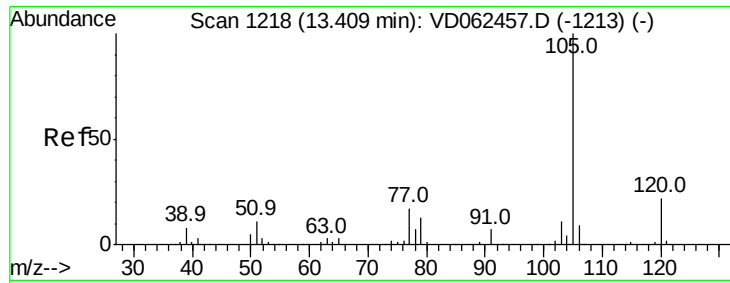


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





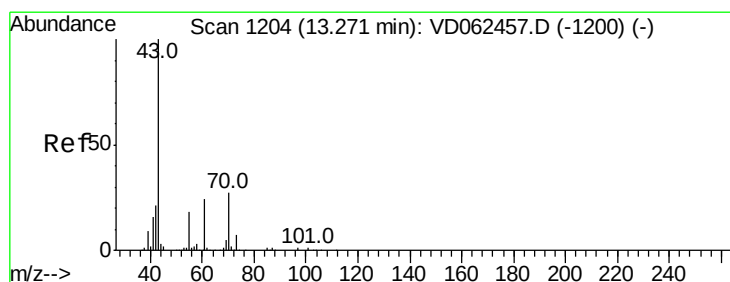
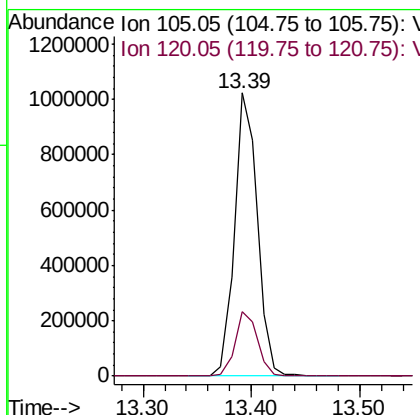
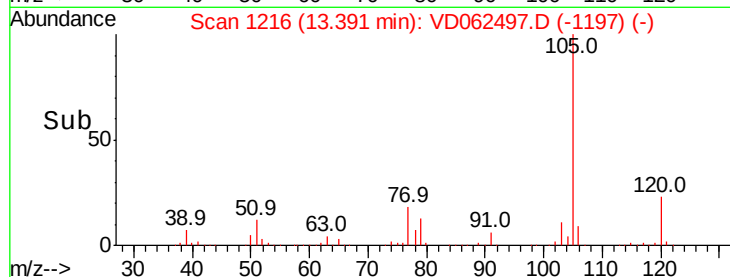
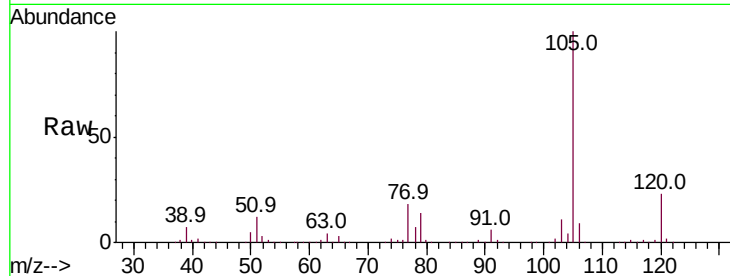
#73
Isopropylbenzene
Concen: 55.625 ug/l
RT: 13.39 min Scan# 1216
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 1496795
Ion Ratio Lower Upper
105 100
120 22.6 12.0 36.1

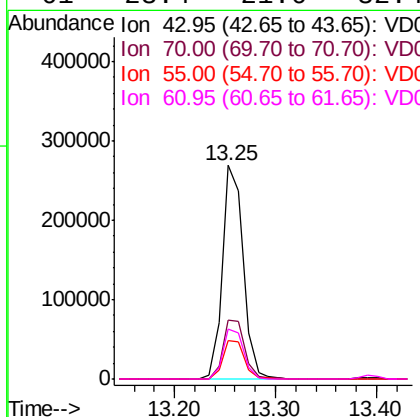
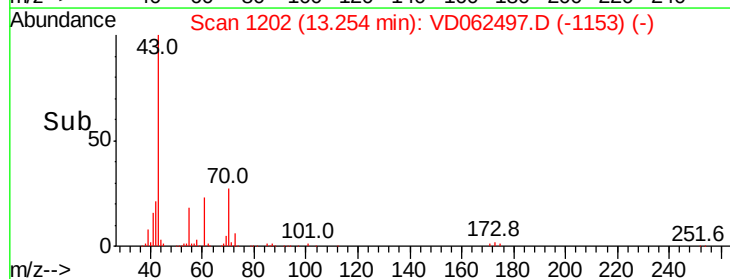
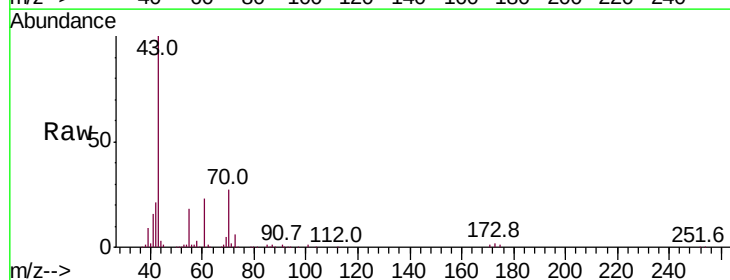
Manual Integrations
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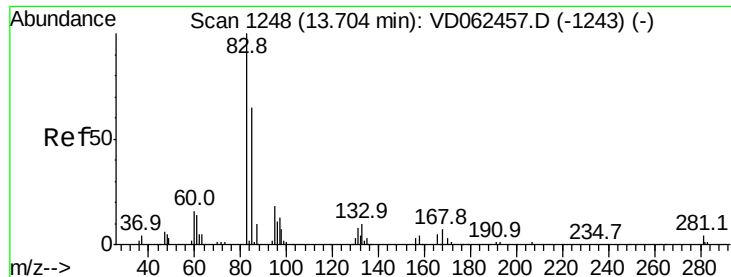
MMDadoda
5/23/2019 11:20:53 AM



#74
N-ethyl acetate
Concen: 58.258 ug/l
RT: 13.25 min Scan# 1202
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 43 Resp: 387180
Ion Ratio Lower Upper
43 100
70 27.5 24.2 36.4
55 18.3 16.0 24.0
61 23.4 21.6 32.4





#75

1,1,2,2-Tetrachloroethane

Concen: 58.234 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

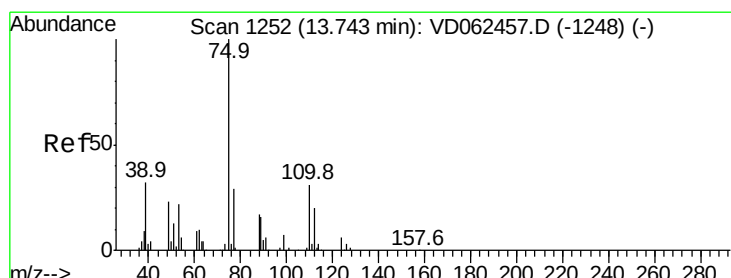
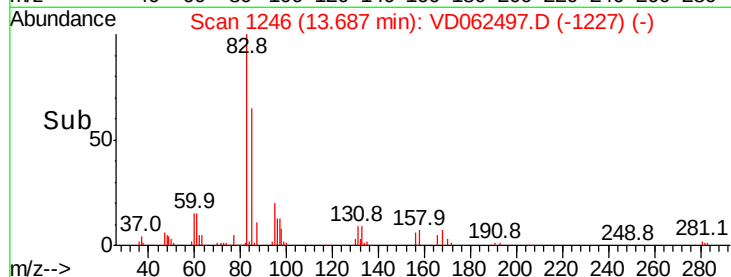
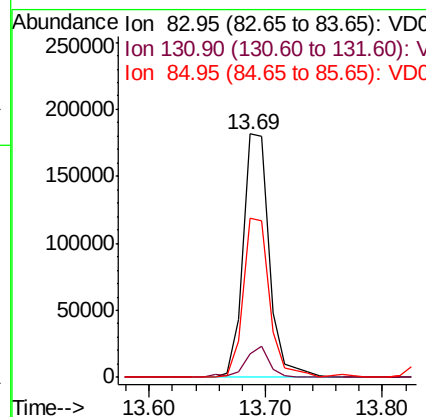
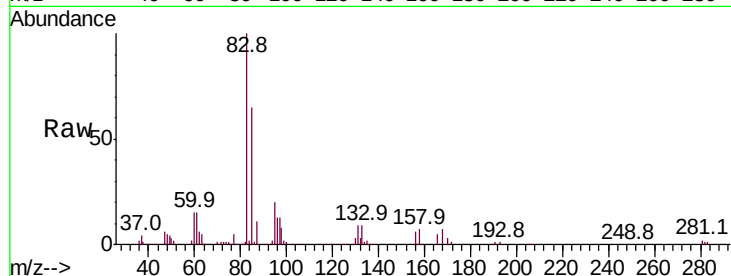
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	282696
Ion Ratio	Lower	Upper	
83	100		
131	9.5	5.0	14.9
85	65.3	32.6	97.7

Manual Integrations
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5/23/2019 11:20:53 AM



#76

1,2,3-Trichloropropane

Concen: 59.891 ug/l

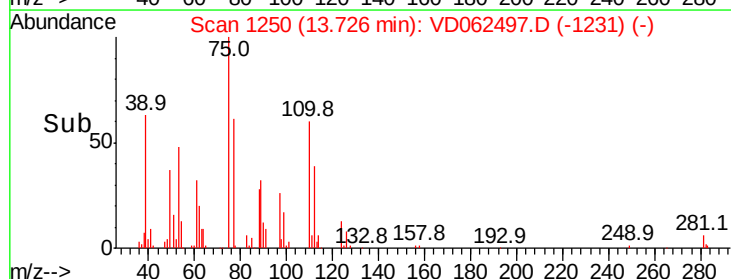
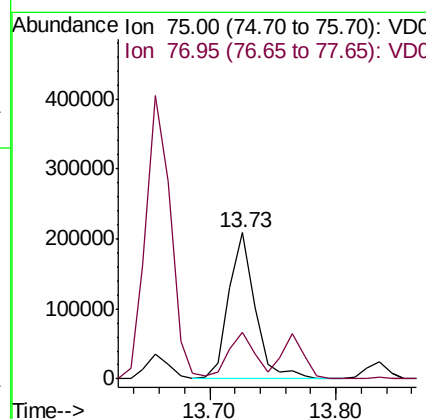
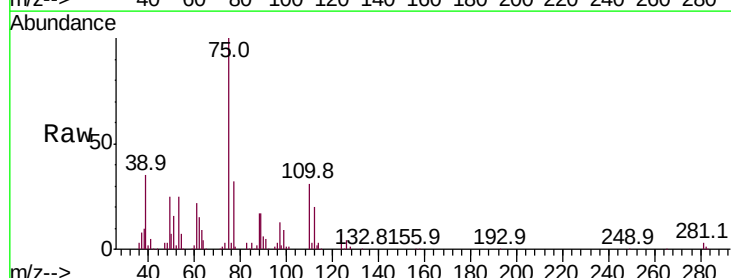
RT: 13.73 min Scan# 1250

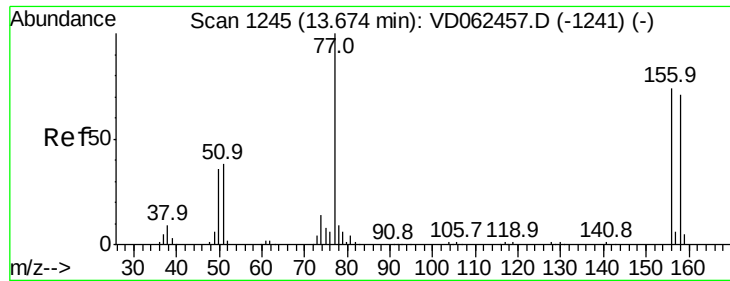
Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Tgt Ion:	75	Resp:	301150
Ion Ratio	Lower	Upper	
75	100		
77	32.1	16.4	49.4





#77

Bromobenzene

Concen: 58.849 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.02 min

Lab File: VD062497.D

Acq: 22 May 2019 12:00

Instrument :

MSVOA_D

ClientSampled :

VSTDCCC050

Tot Ion:156 Resp: 449213

Ion Ratio Lower Upper

156 100

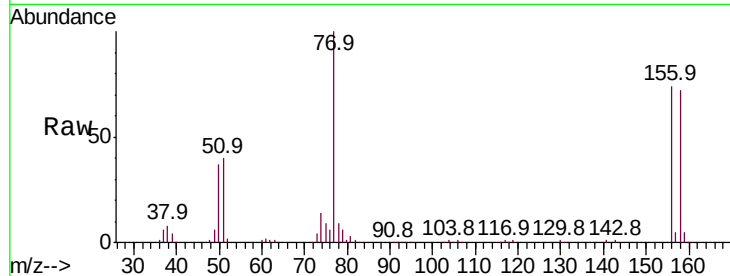
77 135.5 53.1 159.4

158 97.4 49.4 148.0

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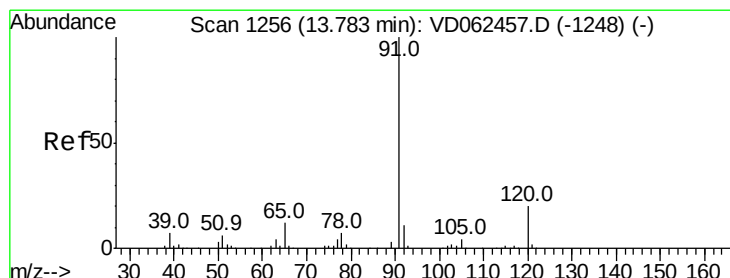
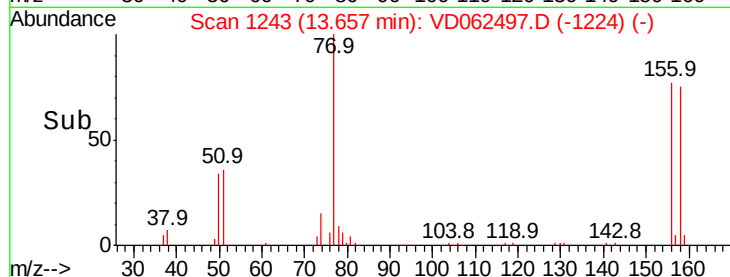
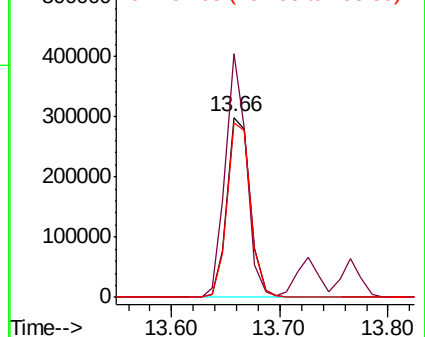
5/23/2019 11:20:53 AM



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 60.872 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.02 min

Lab File: VD062497.D

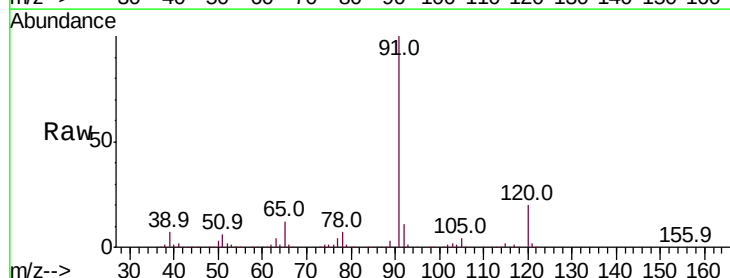
Acq: 22 May 2019 12:00

Tgt Ion: 91 Resp: 1897309

Ion Ratio Lower Upper

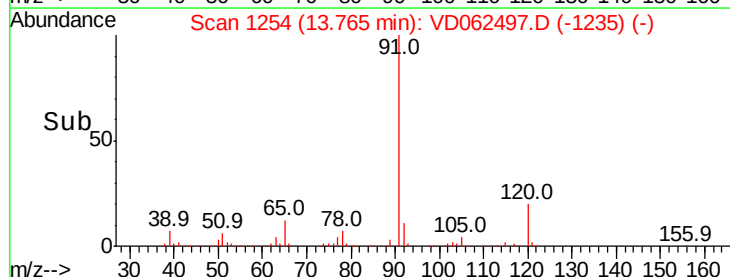
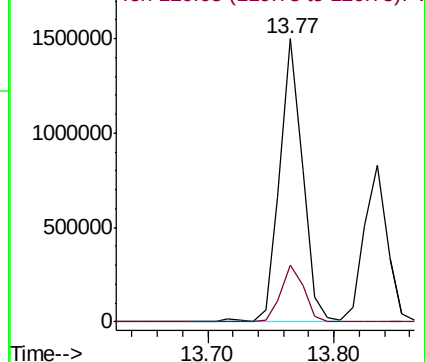
91 100

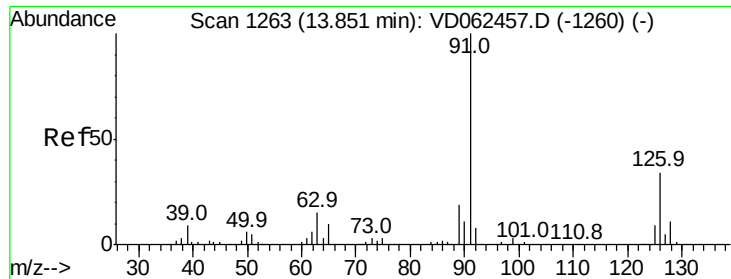
120 20.2 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





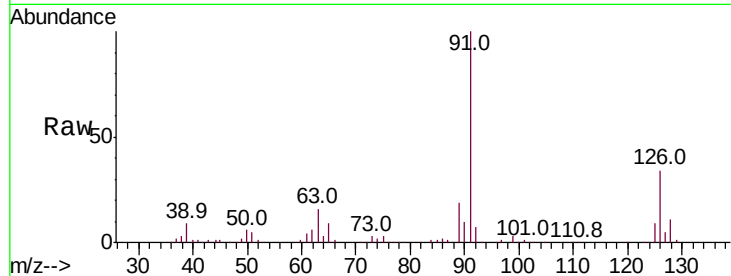
#79
 2-Chlorotoluene
 Concen: 56.531 ug/l
 RT: 13.83 min Scan# 1261
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

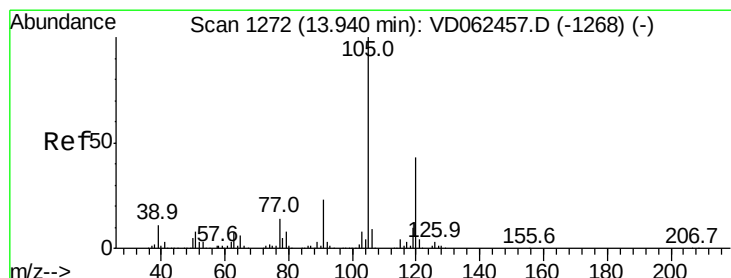
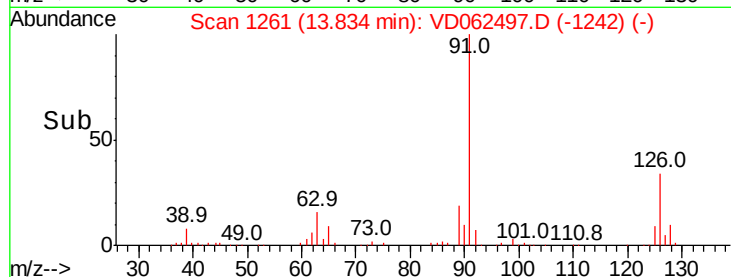
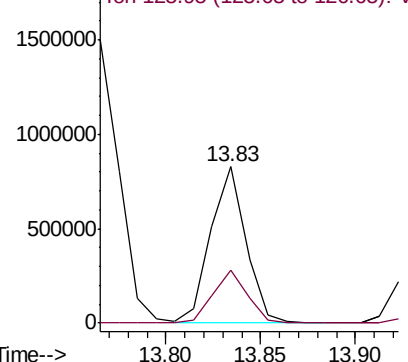
Tot Ion: 91 Resp: 1069296
 Ion Ratio Lower Upper
 91 100
 126 34.0 18.6 55.8

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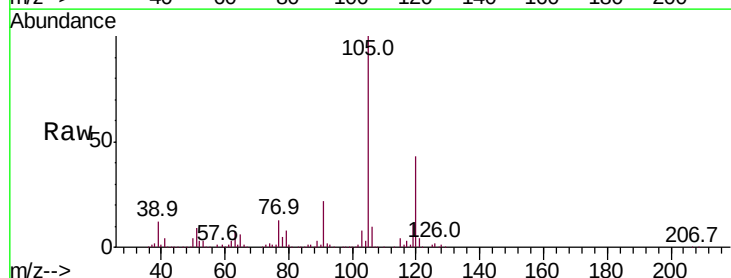


Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 125.95 (125.65 to 126.65): V

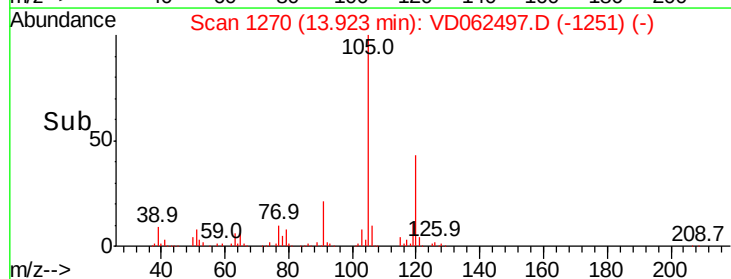
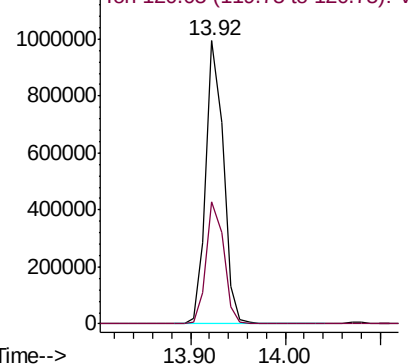


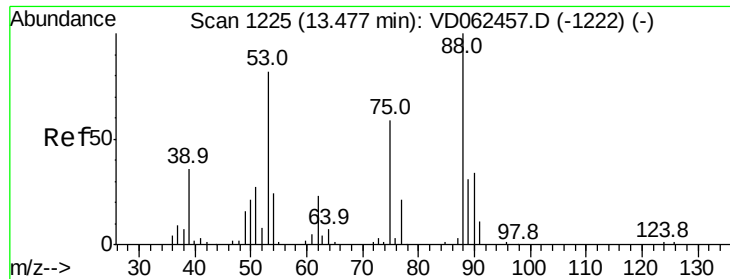
#80
 1,3,5-Trimethylbenzene
 Concen: 54.958 ug/l
 RT: 13.92 min Scan# 1270
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion:105 Resp: 1280452
 Ion Ratio Lower Upper
 105 100
 120 43.0 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V





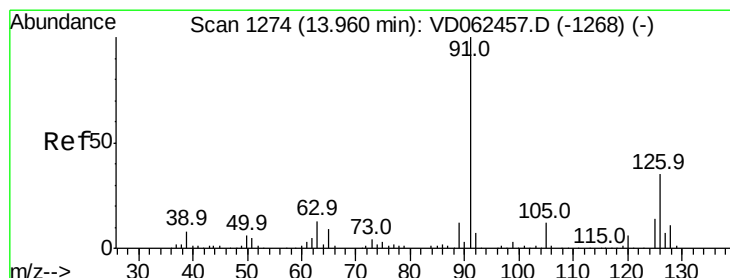
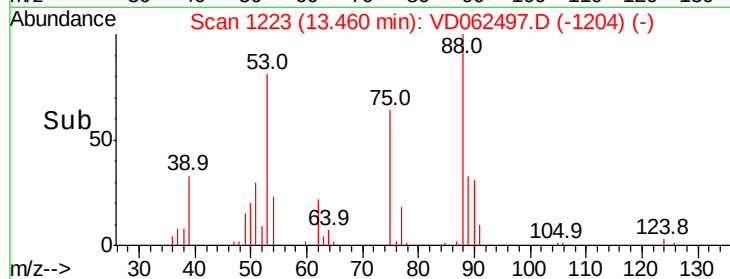
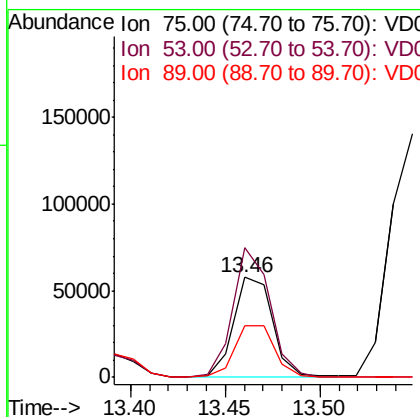
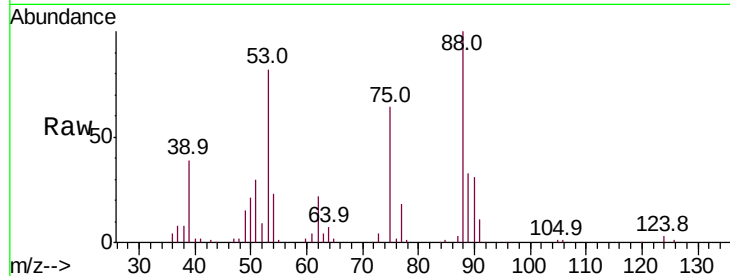
#81
trans-1,4-Dichloro-2-butene
Concen: 58.295 ug/l
RT: 13.46 min Scan# 1223
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	129.5	65.8	98.8#
89	51.3	35.0	52.6

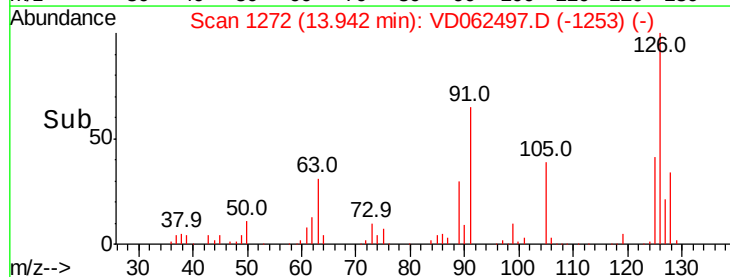
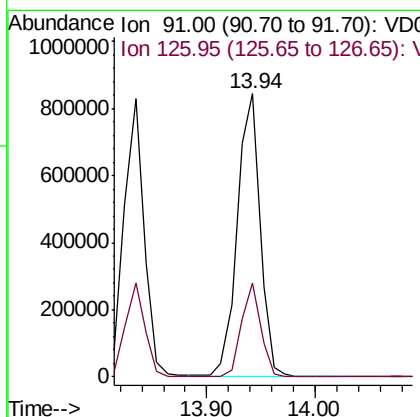
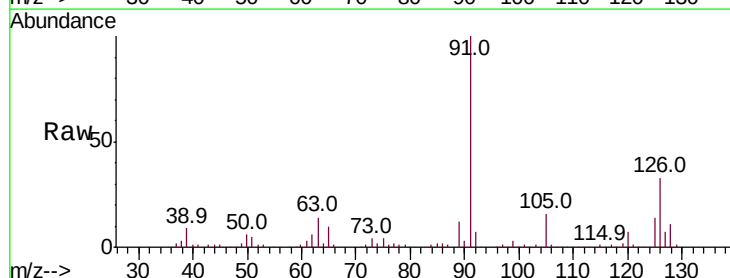
Manual Integrations
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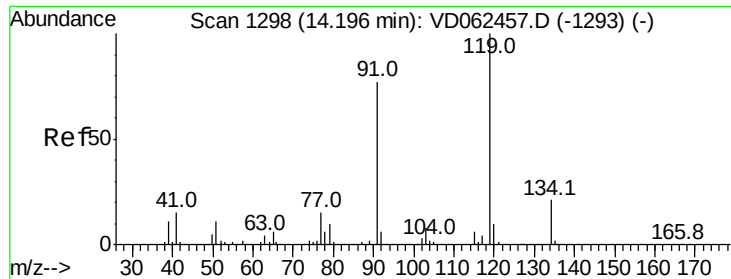
MMDadoda
5/23/2019 11:20:53 AM



#82
4-Chlorotoluene
Concen: 56.945 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.4	19.1	57.5





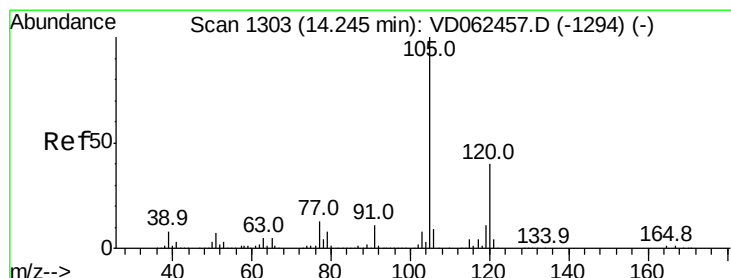
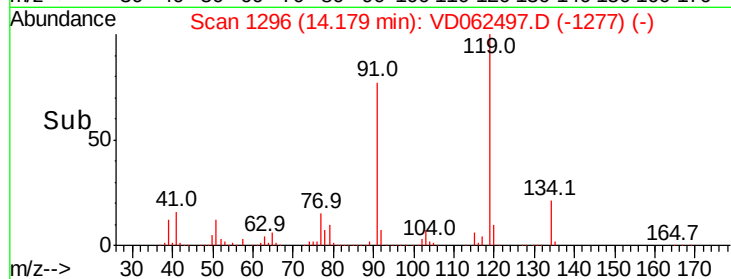
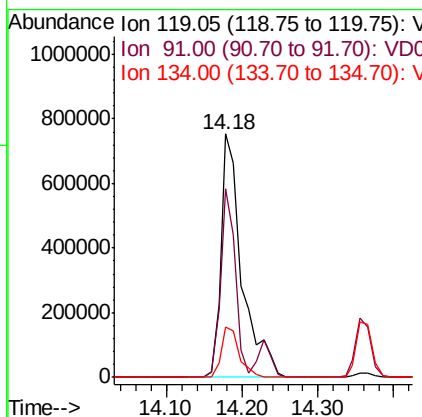
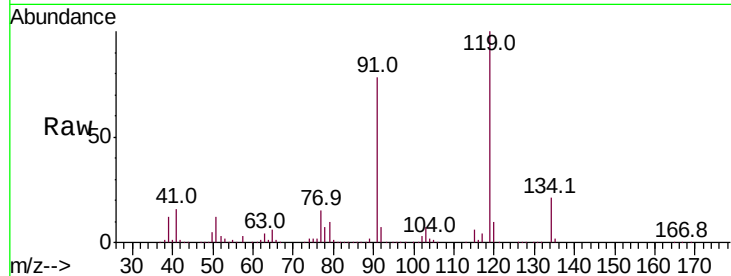
#83
 tert-Butylbenzene
 Concen: 56.258 ug/l
 RT: 14.18 min Scan# 1296
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 1453929
 Ion Ratio Lower Upper
 119 100
 91 77.6 34.2 102.6
 134 20.7 12.0 36.0

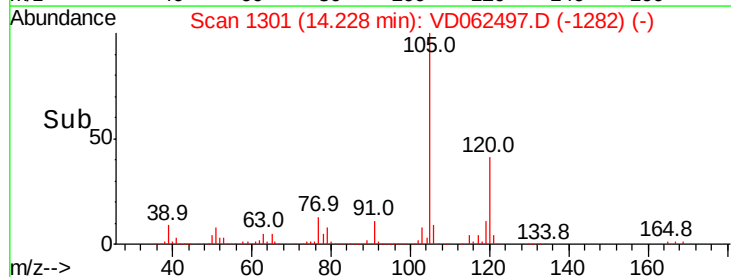
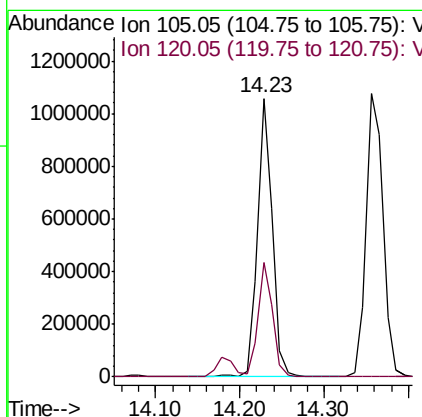
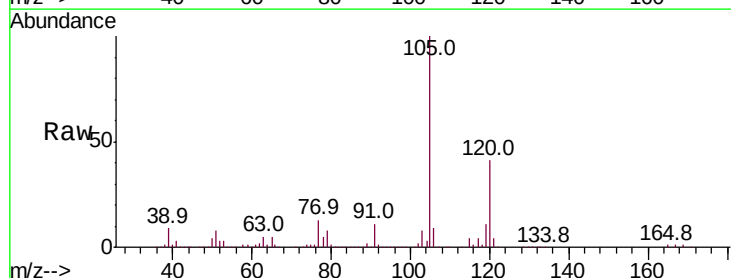
Manual Integrations
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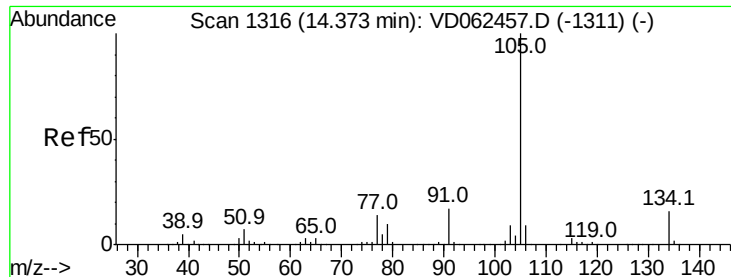
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#84
 1,2,4-Trimethylbenzene
 Concen: 54.849 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion:105 Resp: 1309452
 Ion Ratio Lower Upper
 105 100
 120 41.0 23.1 69.2





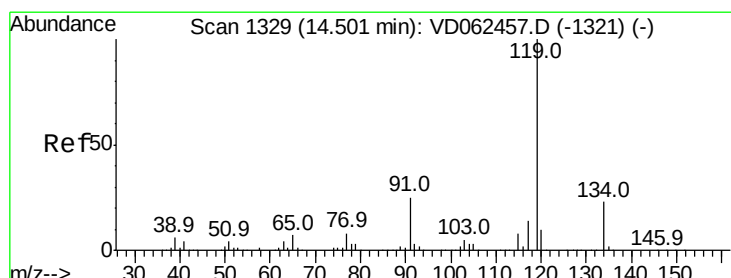
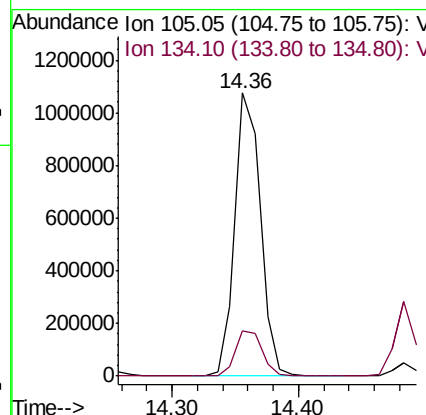
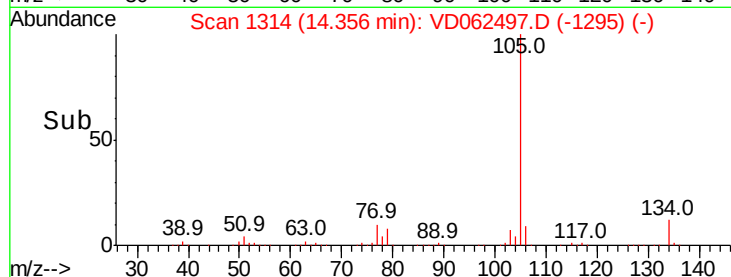
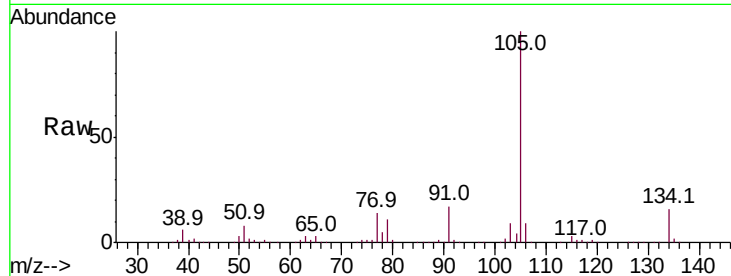
#85
 sec-Butylbenzene
 Concen: 55.455 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1494395
 Ion Ratio Lower Upper
 105 100
 134 15.9 8.9 26.7

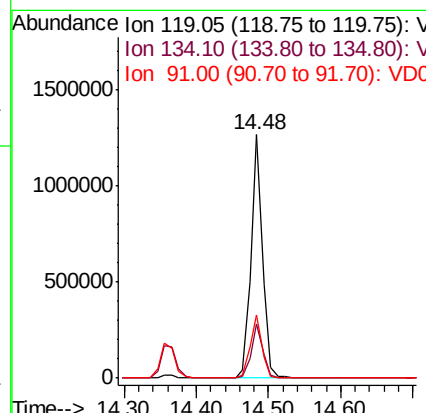
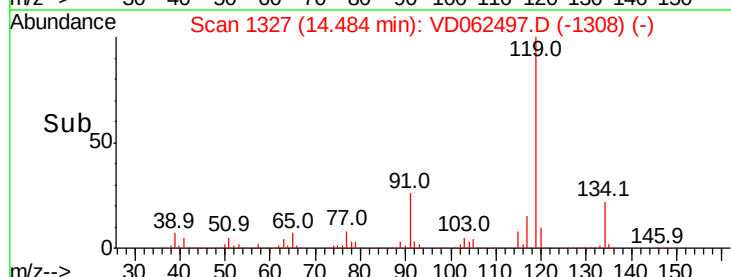
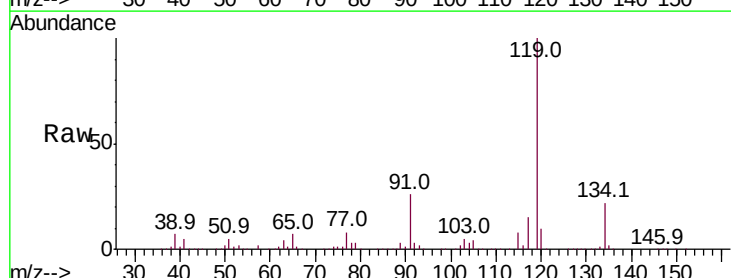
Manual Integrations
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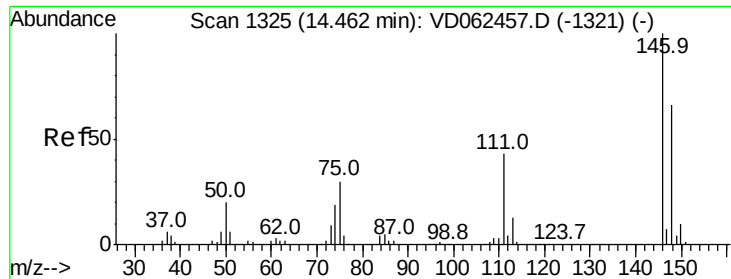
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 5/23/2019 11:20:53 AM



#86
 p-Isopropyltoluene
 Concen: 57.934 ug/l
 RT: 14.48 min Scan# 1327
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion:119 Resp: 1414791
 Ion Ratio Lower Upper
 119 100
 134 22.4 12.8 38.3
 91 26.2 10.7 32.1





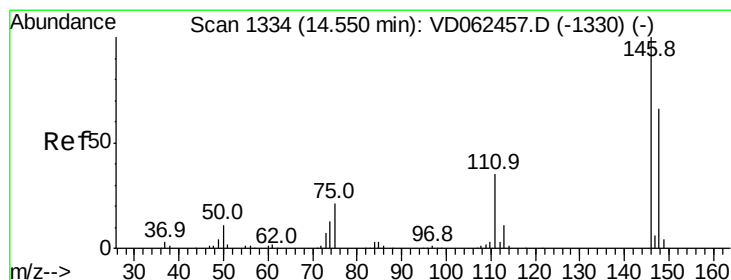
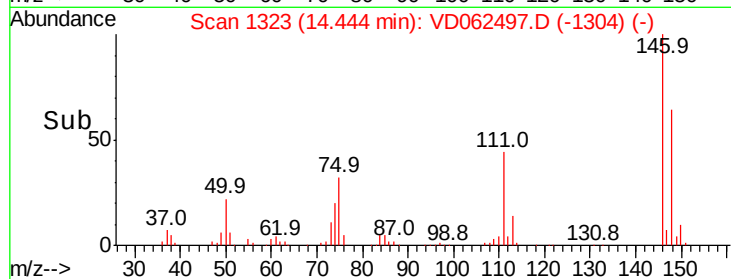
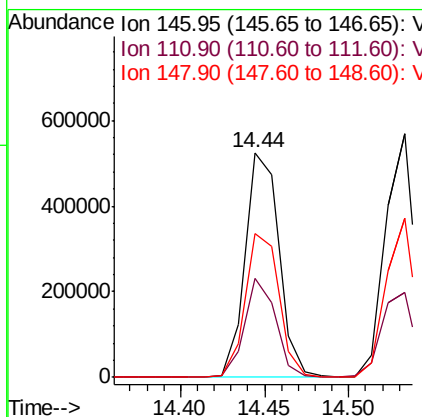
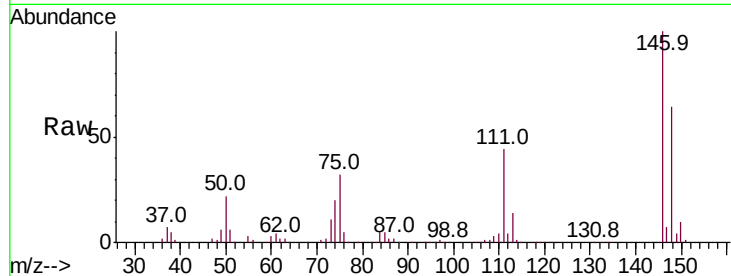
#87
 1,3-Dichlorobenzene
 Concen: 54.361 ug/l
 RT: 14.44 min Scan# 1323
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.0	60.0
148	64.0	31.8	95.4

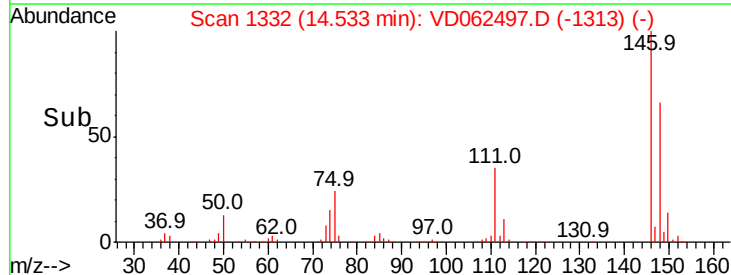
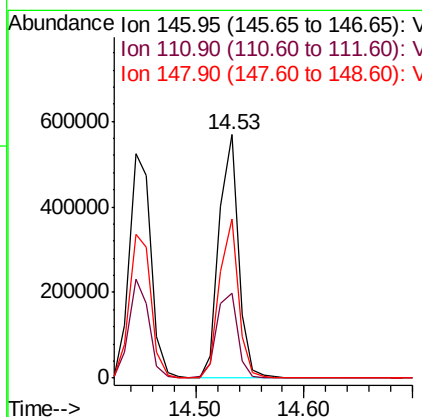
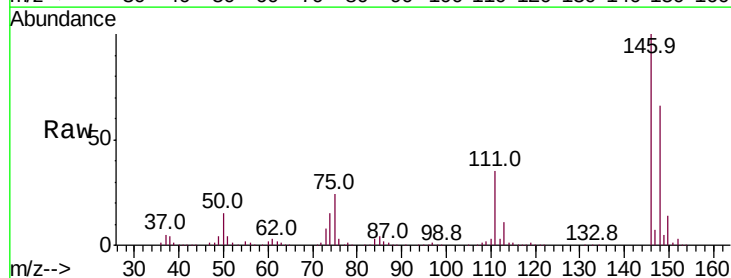
Manual Integrations
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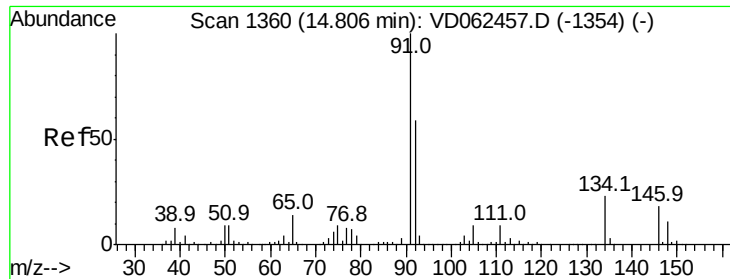
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#88
 1,4-Dichlorobenzene
 Concen: 54.682 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.0	20.2	60.5
148	65.5	32.0	96.2





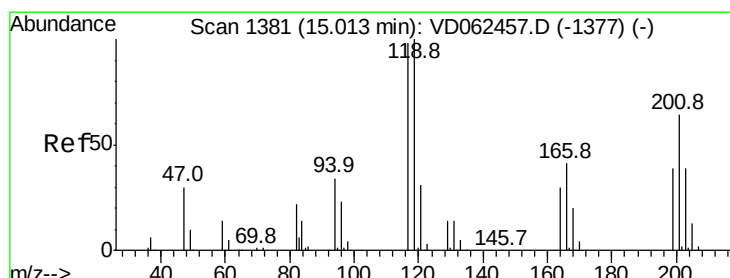
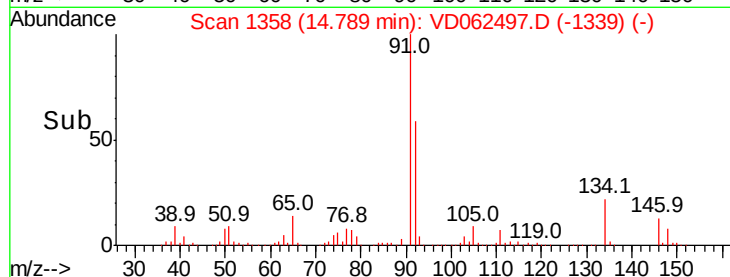
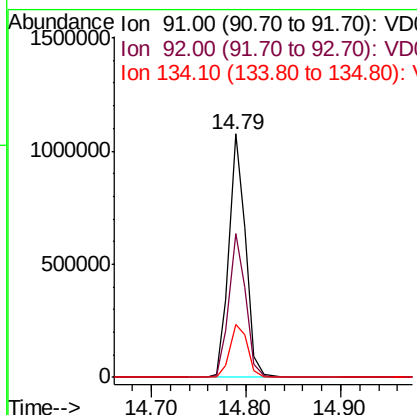
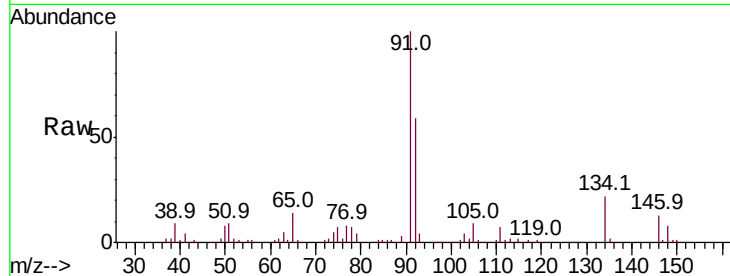
#89
n-Butylbenzene
Concen: 55.424 ug/l
RT: 14.79 min Scan# 1358
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1306232
Ion Ratio Lower Upper
91 100
92 59.2 30.3 91.0
134 21.5 14.5 43.6

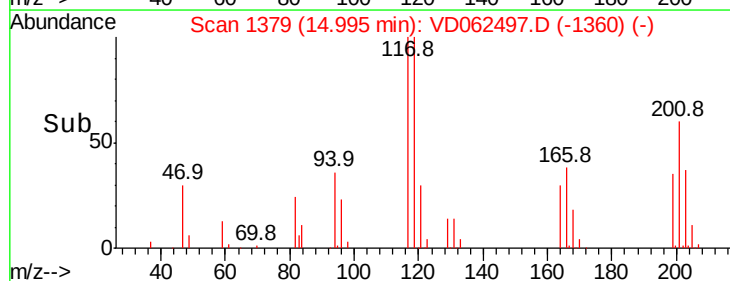
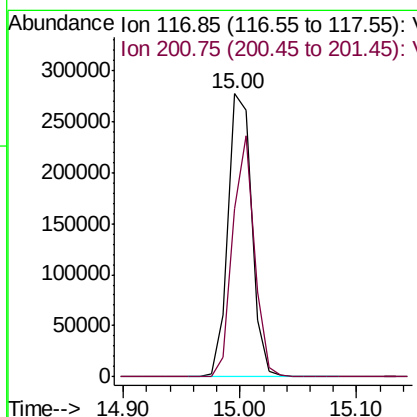
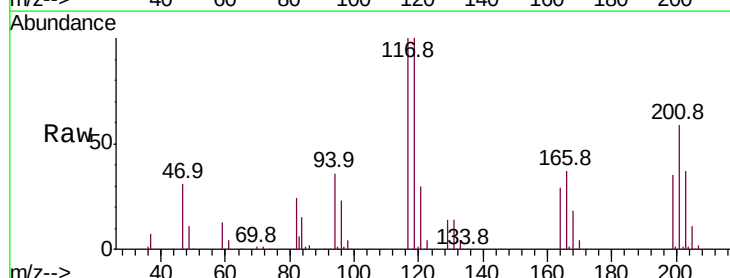
Manual Integrations
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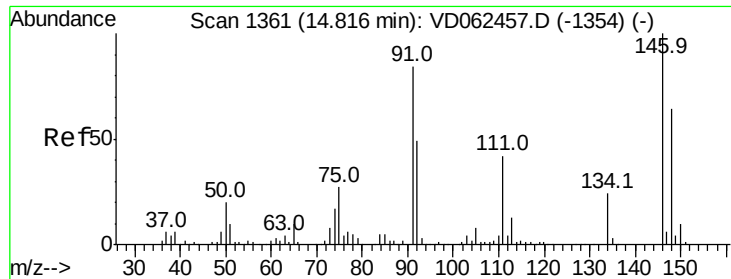
MMDadoda
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#90
Hexachloroethane
Concen: 58.286 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion: 117 Resp: 393380
Ion Ratio Lower Upper
117 100
201 59.5 30.2 90.6





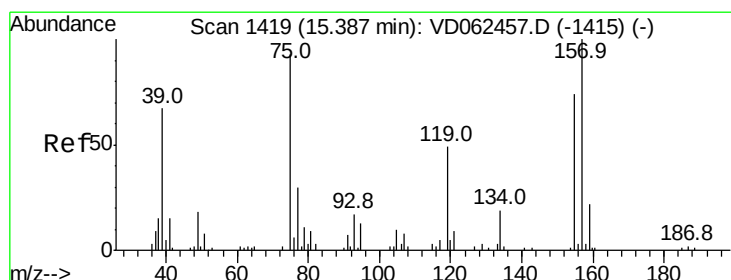
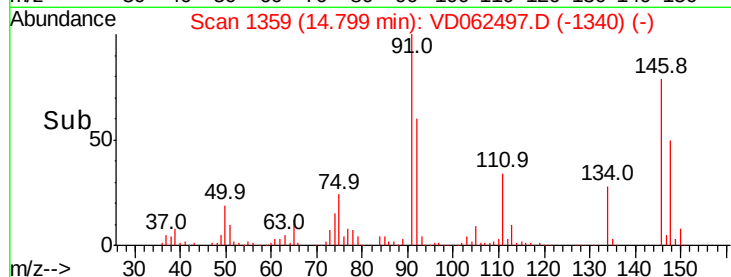
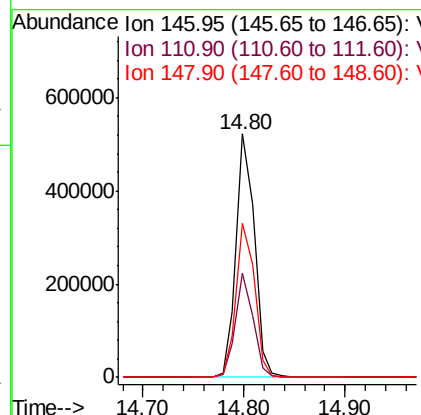
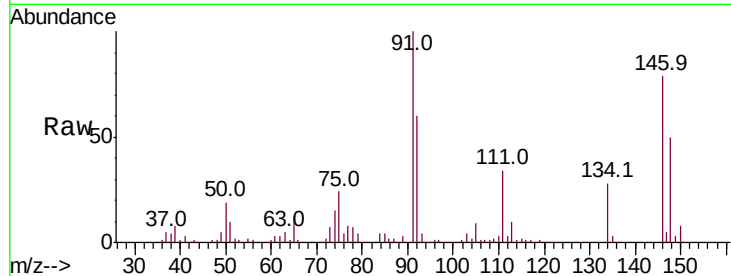
#91
 1,2-Dichlorobenzene
 Concen: 57.641 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.0	59.9
148	63.0	32.3	96.8

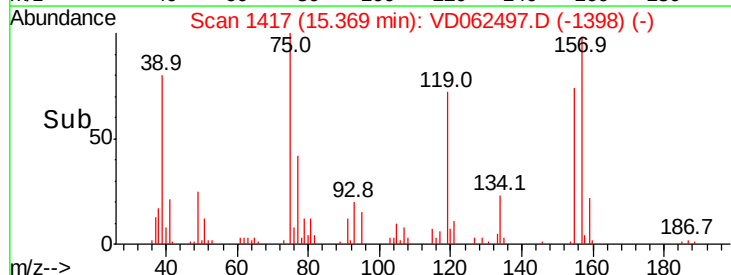
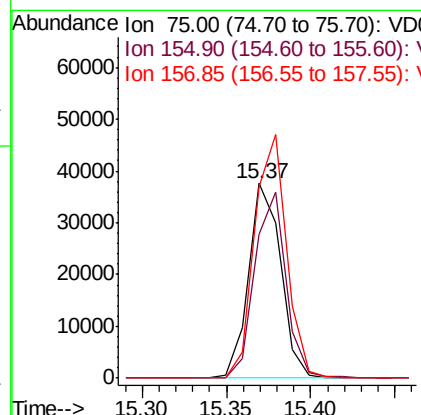
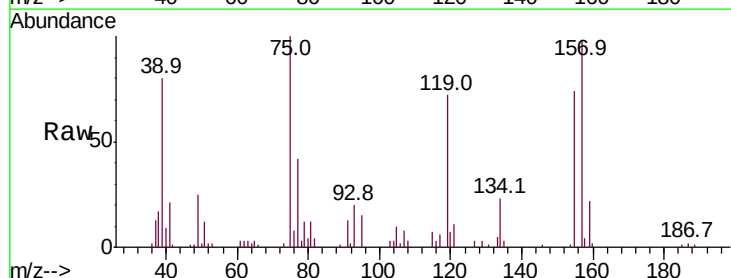
Manual Integrations
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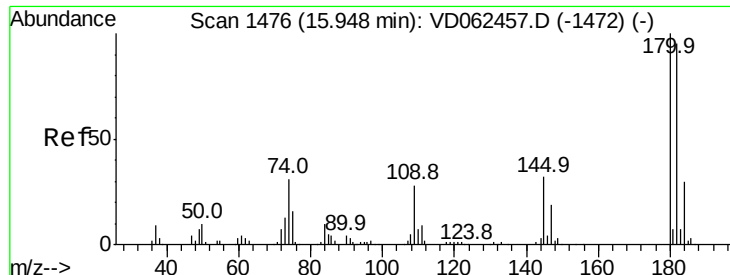
MMDadoda
 5/23/2019 11:20:53 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.670 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	74.1	55.3	165.8
157	98.0	67.8	203.2





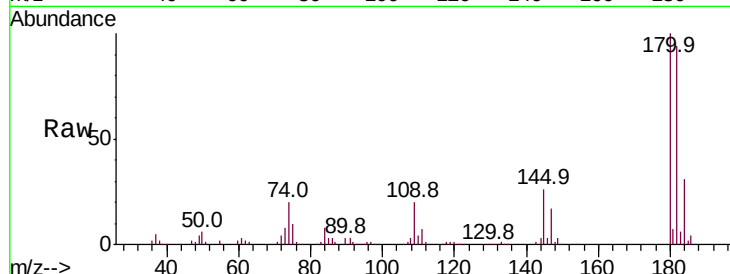
#93
 1,2,4-Trichlorobenzene
 Concen: 53.601 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

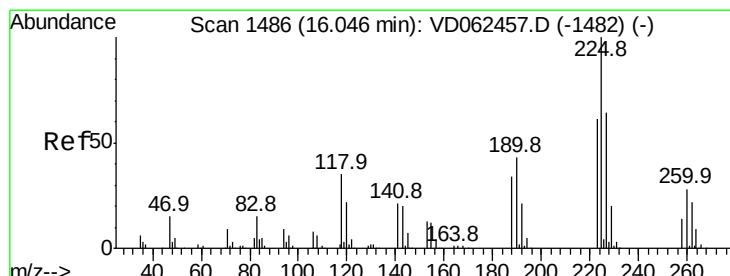
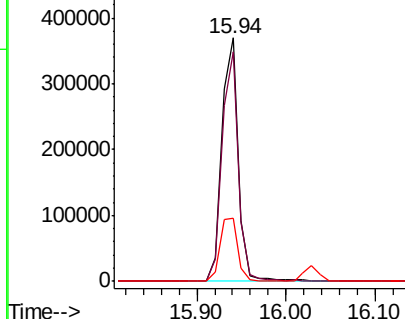
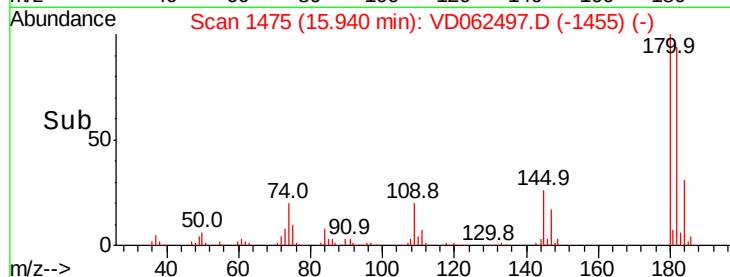
Tot Ion	Ratio	Resp	Lower	Upper
180	100	483775		
182	94.4	49.3	147.8	
145	25.7	16.2	48.6	

Manual Integrations
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 5/23/2019 11:20:53 AM

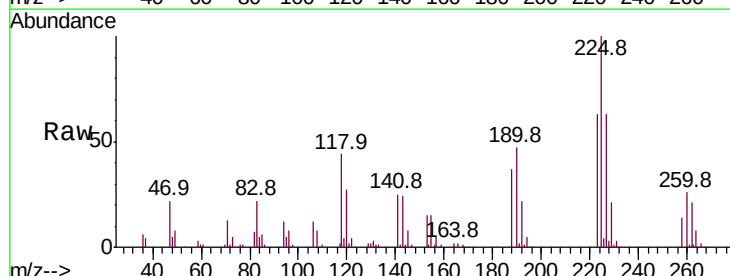


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

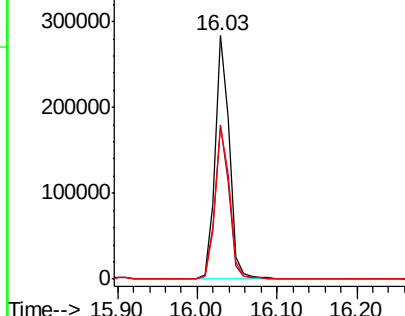
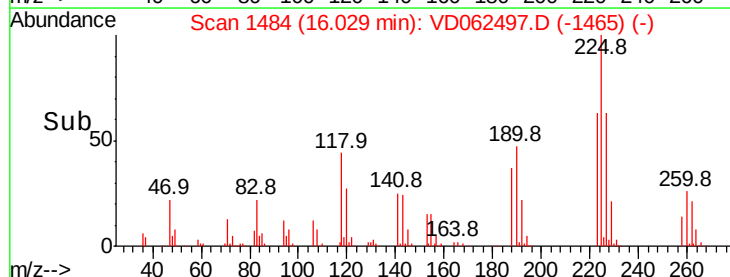


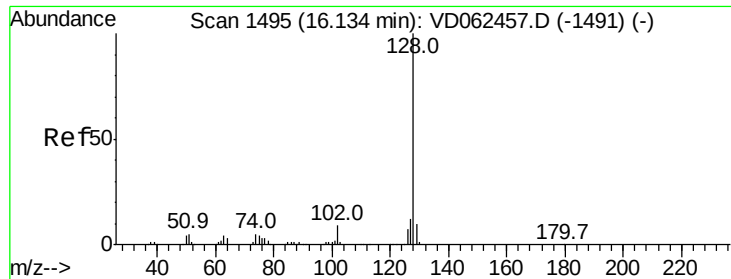
#94
 Hexachlorobutadiene
 Concen: 53.980 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.02 min
 Lab File: VD062497.D
 Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	359734		
223	63.3	30.6	92.0	
227	62.7	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





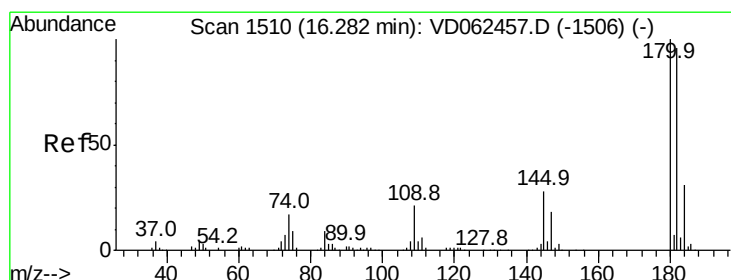
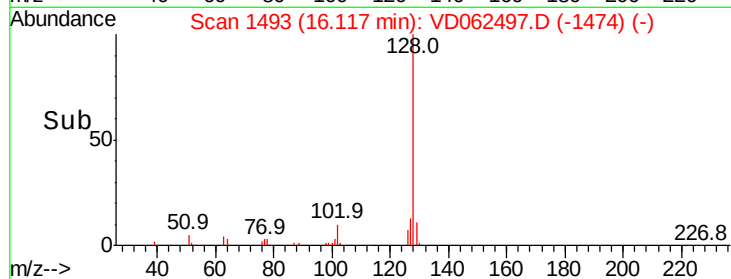
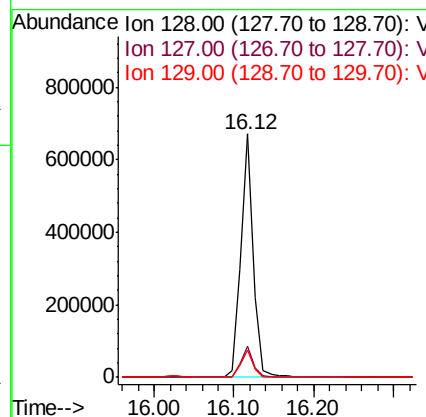
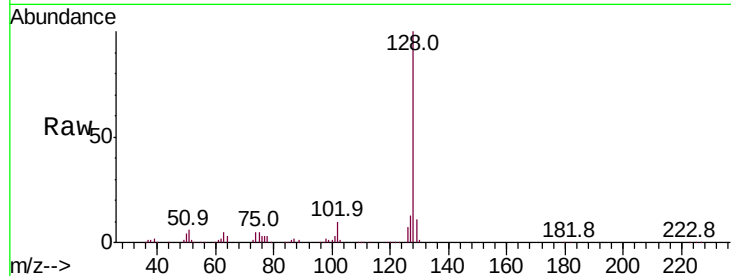
#95
Naphthalene
Concen: 60.132 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.8	14.8
129	11.0	8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 57.937 ug/l
RT: 16.26 min Scan# 1508
Delta R.T. -0.02 min
Lab File: VD062497.D
Acq: 22 May 2019 12:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.0	141.0
145	28.9	17.0	51.0

