

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071219\
 Data File : VD063069.D
 Acq On : 12 Jul 2019 14:01
 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
 7/22/2019 5:31:11 PM

Quant Time: Jul 13 01:11:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	940994	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	1284336	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1103155	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	571366	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	465778	45.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.08%	
35) Dibromofluoromethane	6.94	113	521453	48.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.30%	
50) Toluene-d8	10.43	98	1043783	44.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.56%	
62) 4-Bromofluorobenzene	13.57	95	485701	45.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	455290	37.390	ug/l	100
3) Chloromethane	1.75	50	375976	41.056	ug/l	98
4) Vinyl Chloride	1.84	62	390431	43.000	ug/l	98
5) Bromomethane	2.15	94	160919	37.844	ug/l	94
6) Chloroethane	2.26	64	189384	46.070	ug/l	97
7) Trichlorofluoromethane	2.53	101	844446	45.954	ug/l	97
8) Diethyl Ether	2.87	74	129640	55.525	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	3.14	101	462796	46.488	ug/l	90
10) Methyl Iodide	3.30	142	648408	49.370	ug/l	95
11) Tert butyl alcohol	4.11	59	136681	293.400	ug/l #	94
12) 1,1-Dichloroethene	3.12	96	340693	45.620	ug/l	90
13) Acrolein	3.04	56	109911	231.109	ug/l	94
14) Allyl chloride	3.62	41	613338	55.582	ug/l	94
15) Acrylonitrile	4.20	53	352160	321.717	ug/l #	90
16) Acetone	3.23	43	640727	310.592	ug/l	98
17) Carbon Disulfide	3.38	76	946357	39.650	ug/l	100
18) Methyl Acetate	3.65	43	176455	57.147	ug/l	96
19) Methyl tert-butyl Ether	4.25	73	919908	56.901	ug/l	99
20) Methylene Chloride	3.82	84	413378	52.993	ug/l	96
21) trans-1,2-Dichloroethene	4.22	96	412875	51.922	ug/l	88
22) Diisopropyl ether	5.13	45	1321868	58.904	ug/l	94
23) Vinyl Acetate	5.07	43	3989775	284.125	ug/l	99
24) 1,1-Dichloroethane	4.99	63	777197	53.193	ug/l	98
25) 2-Butanone	6.09	43	586413	306.536	ug/l	94
26) 2,2-Dichloropropane	6.03	77	809803	52.290	ug/l	94
27) cis-1,2-Dichloroethene	6.04	96	448393	53.323	ug/l	94
28) Bromochloromethane	6.45	49	260624	50.646	ug/l	98
29) Tetrahydrofuran	6.48	42	263835	291.488	ug/l	97
30) Chloroform	6.67	83	968050	54.480	ug/l	92
31) Cyclohexane	6.96	56	465713	48.485	ug/l	89
32) 1,1,1-Trichloroethane	6.88	97	915076	49.443	ug/l	95
36) 1,1-Dichloropropene	7.16	75	613485	50.459	ug/l	95
37) Ethyl Acetate	6.20	43	292027	57.341	ug/l	96
38) Carbon Tetrachloride	7.12	117	933893m	51.074	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071219\
 Data File : VD063069.D
 Acq On : 12 Jul 2019 14:01
 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
 7/22/2019 5:31:11 PM

Quant Time: Jul 13 01:11:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	502246	46.930	ug/l	97
40) Benzene	7.46	78	1301406	53.326	ug/l	95
41) Methacrylonitrile	6.46	41	349659	54.535	ug/l #	98
42) 1,2-Dichloroethane	7.59	62	709249	53.273	ug/l	98
43) Isopropyl Acetate	9.25	43	397422	62.350	ug/l	92
44) Trichloroethene	8.55	130	495869	51.827	ug/l	95
45) 1,2-Dichloropropane	8.95	63	327672	53.996	ug/l	92
46) Dibromomethane	9.08	93	262627	50.380	ug/l	89
47) Bromodichloromethane	9.39	83	737642	54.485	ug/l	100
48) Methyl methacrylate	9.14	41	230295	50.842	ug/l	97
49) 1,4-Dioxane	9.09	88	46005	1220.787	ug/l	95
51) 4-Methyl-2-Pentanone	10.32	43	1262395	279.342	ug/l	98
52) Toluene	10.52	92	861813	52.533	ug/l	93
53) t-1,3-Dichloropropene	10.93	75	633931	57.209	ug/l	95
54) cis-1,3-Dichloropropene	10.05	75	667820	55.448	ug/l	91
55) 1,1,2-Trichloroethane	11.20	97	308158	54.675	ug/l	96
56) Ethyl methacrylate	11.06	69	357599	59.369	ug/l	96
57) 1,3-Dichloropropane	11.42	76	456533	52.902	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.87	63	606412	196.106	ug/l	100
59) 2-Hexanone	11.55	43	961606	298.774	ug/l	98
60) Dibromochloromethane	11.70	129	569853	54.281	ug/l	96
61) 1,2-Dibromoethane	11.81	107	377819	56.759	ug/l	95
64) Tetrachloroethene	11.27	164	435308	47.945	ug/l	93
65) Chlorobenzene	12.40	112	1098176	53.639	ug/l	96
66) 1,1,1,2-Tetrachloroethane	12.52	131	499461	52.166	ug/l	88
67) Ethyl Benzene	12.53	91	1771154	48.185	ug/l	99
68) m/p-Xylenes	12.68	106	1341928	104.819	ug/l	90
69) o-Xylene	13.05	106	624843	53.390	ug/l	100
70) Styrene	13.08	104	1036361	50.416	ug/l	93
71) Bromoform	13.24	173	370137	56.424	ug/l #	94
73) Isopropylbenzene	13.41	105	1845653	50.380	ug/l	99
74) N-amyl acetate	13.27	43	483595	54.357	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	338816	56.762	ug/l	98
76) 1,2,3-Trichloropropane	13.74	75	372634	56.494	ug/l	90
77) Bromobenzene	13.67	156	539030	54.703	ug/l	93
78) n-propylbenzene	13.78	91	2177850	51.076	ug/l	97
79) 2-Chlorotoluene	13.85	91	1268789	52.068	ug/l	93
80) 1,3,5-Trimethylbenzene	13.94	105	1536926	49.946	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.48	75	106891	61.833	ug/l	98
82) 4-Chlorotoluene	13.95	91	1358653	46.313	ug/l	93
83) tert-Butylbenzene	14.20	119	1747753	50.955	ug/l	97
84) 1,2,4-Trimethylbenzene	14.25	105	1585078	50.256	ug/l	100
85) sec-Butylbenzene	14.37	105	1746584	46.851	ug/l	96
86) p-Isopropyltoluene	14.50	119	1800807	52.802	ug/l	95
87) 1,3-Dichlorobenzene	14.46	146	935429	52.958	ug/l	98
88) 1,4-Dichlorobenzene	14.54	146	869022	48.983	ug/l	98
89) n-Butylbenzene	14.81	91	1593879	49.932	ug/l	97
90) Hexachloroethane	15.01	117	497059	54.206	ug/l	91
91) 1,2-Dichlorobenzene	14.82	146	786128	52.018	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.39	75	65079	55.860	ug/l	61

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071219\
Data File : VD063069.D
Acq On : 12 Jul 2019 14:01
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

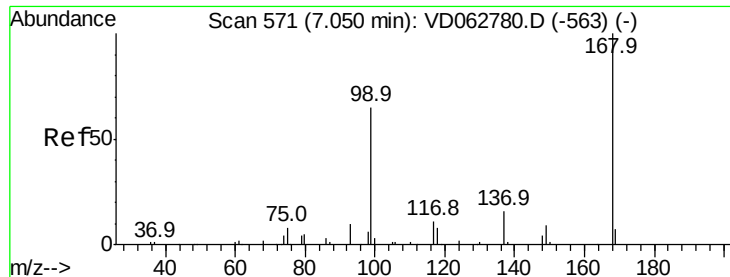
Manual Integrations
APPROVED

MMDadoda
7/22/2019 5:31:11 PM

Quant Time: Jul 13 01:11:30 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	633940	53.699	ug/l	97
94) Hexachlorobutadiene	16.05	225	473591	52.512	ug/l	98
95) Naphthalene	16.13	128	945902	57.167	ug/l	100
96) 1,2,3-Trichlorobenzene	16.27	180	513452	56.607	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 940994

Ion Ratio Lower Upper

168 100

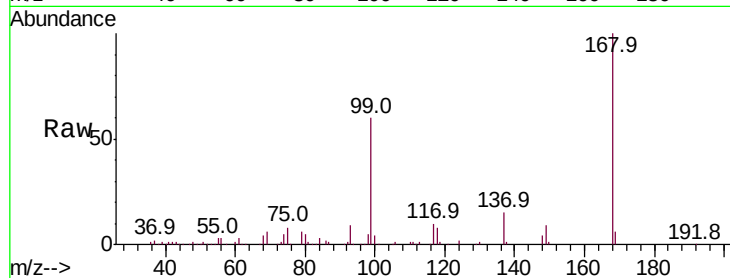
99 60.3 53.0 79.6

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

300000

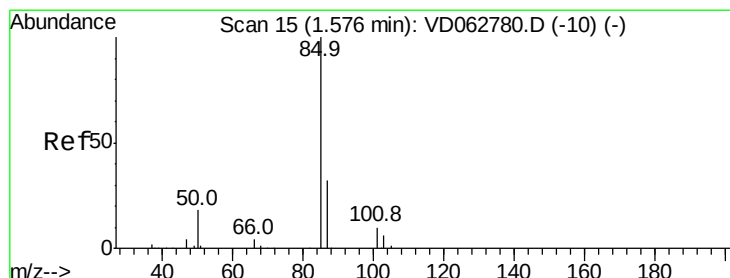
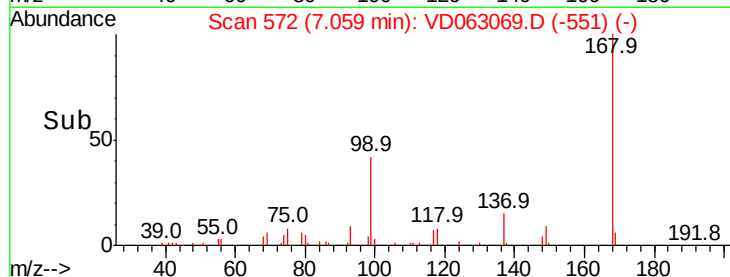
200000

100000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 37.390 ug/l

RT: 1.58 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD063069.D

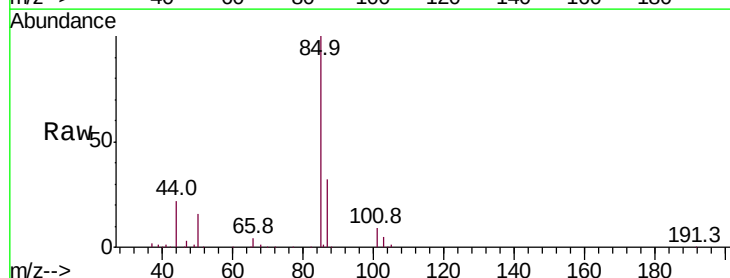
Acq: 12 Jul 2019 14:01

Tgt Ion: 85 Resp: 455290

Ion Ratio Lower Upper

85 100

87 31.7 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

200000

150000

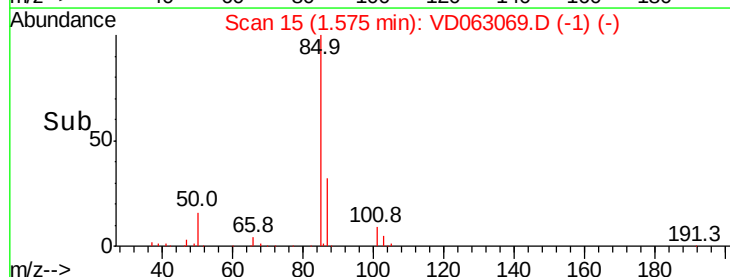
100000

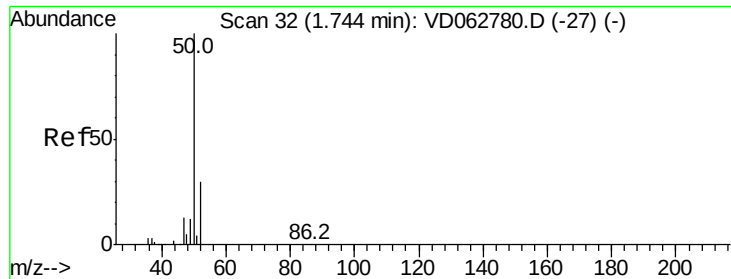
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 41.056 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 375976

Ion Ratio Lower Upper

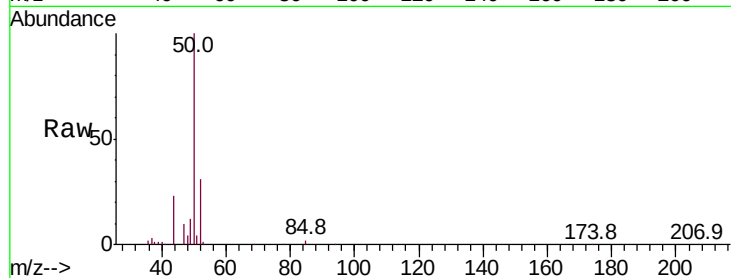
50 100

52 30.5 23.6 35.4

Manual Integrations
APPROVED

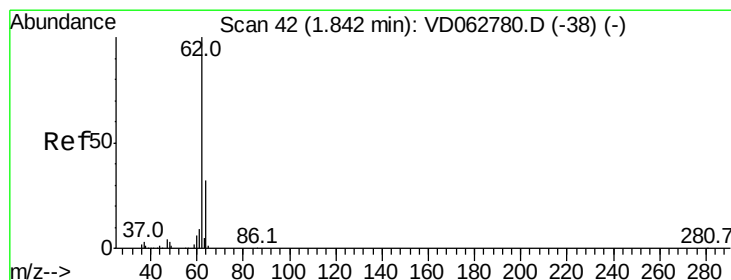
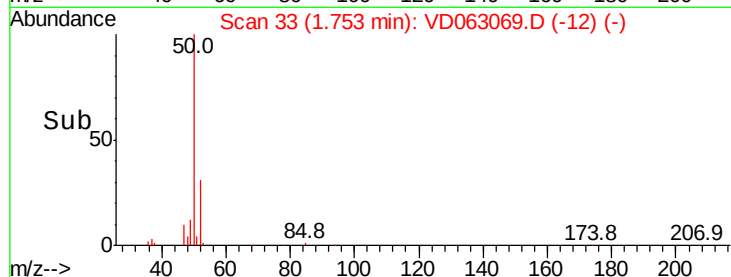
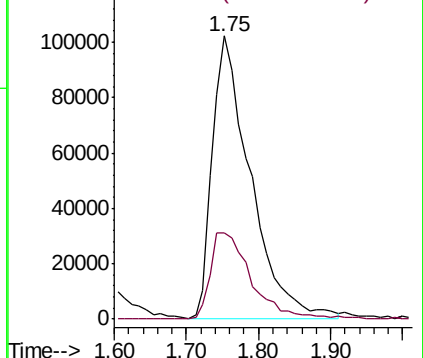
MMDadoda

7/22/2019 5:31:11 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 43.000 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.00 min

Lab File: VD063069.D

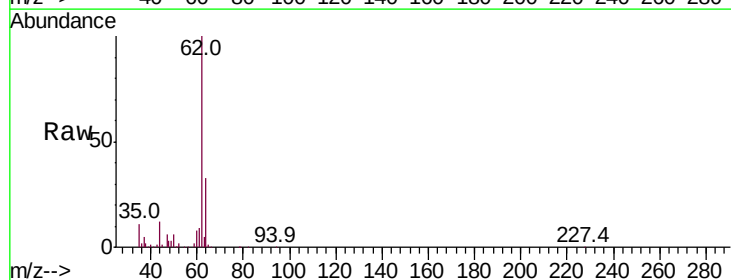
Acq: 12 Jul 2019 14:01

Tgt Ion: 62 Resp: 390431

Ion Ratio Lower Upper

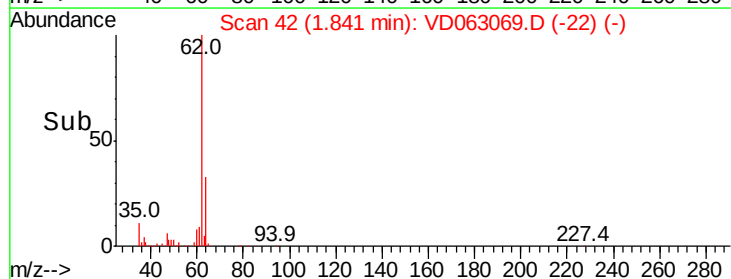
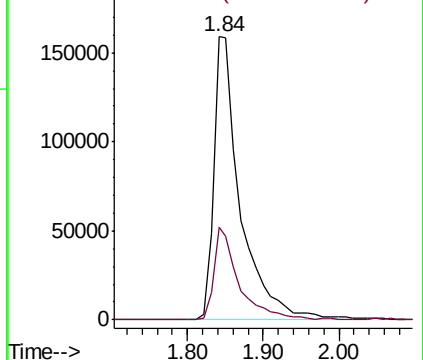
62 100

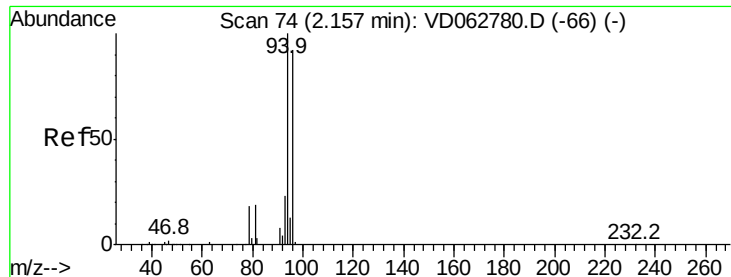
64 32.9 25.6 38.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 37.844 ug/l

RT: 2.15 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

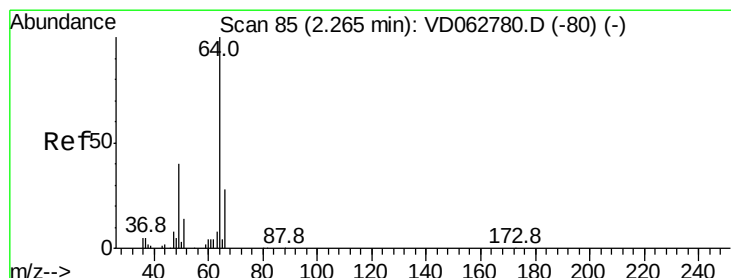
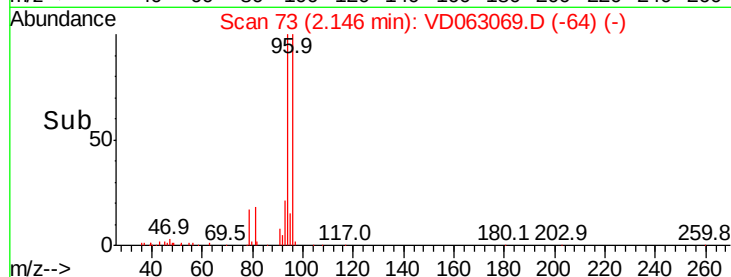
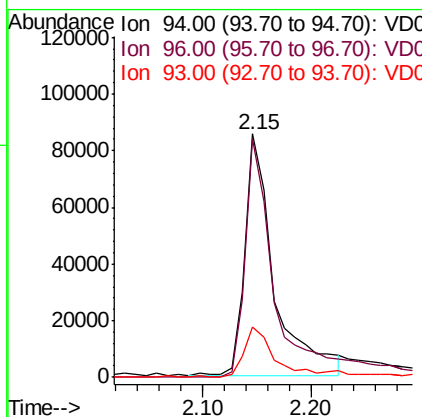
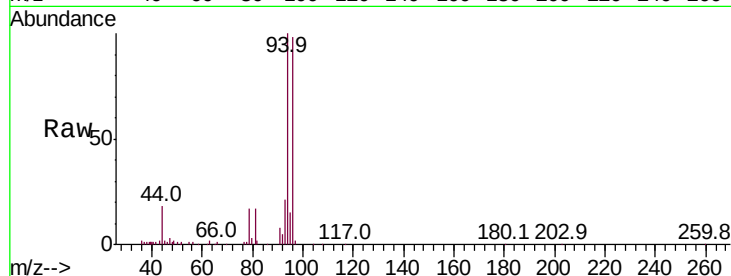
ClientSampleId :

VSTDCCC050

Tot Ion:	94	Resp:	160919
Ion	Ratio	Lower	Upper
94	100		
96	97.8	73.4	110.2
93	20.8	18.2	27.4

Manual Integrations
APPROVED

MMDadoda
7/22/2019 5:31:11 PM



#6

Chloroethane

Concen: 46.070 ug/l

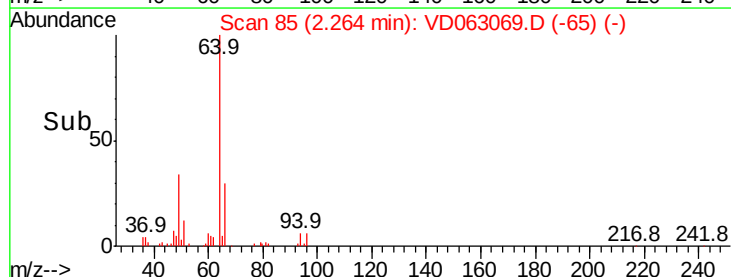
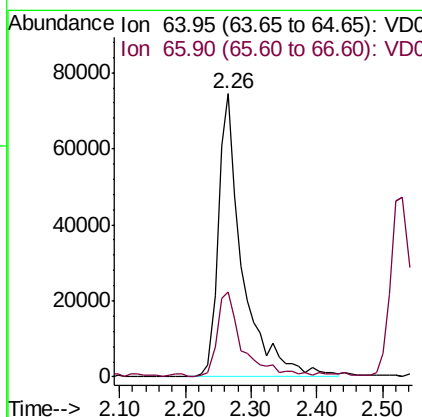
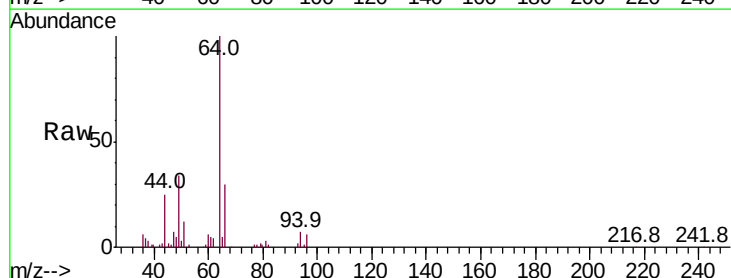
RT: 2.26 min Scan# 85

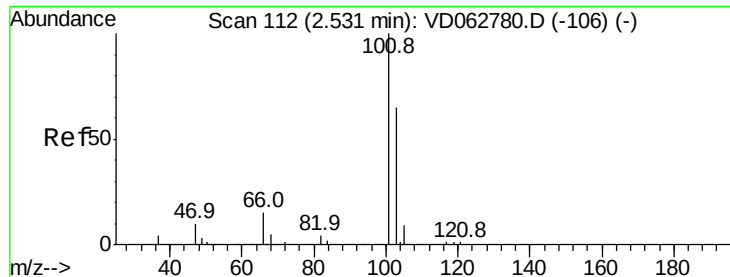
Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Tgt Ion:	64	Resp:	189384
Ion	Ratio	Lower	Upper
64	100		
66	30.1	23.0	34.4





#7

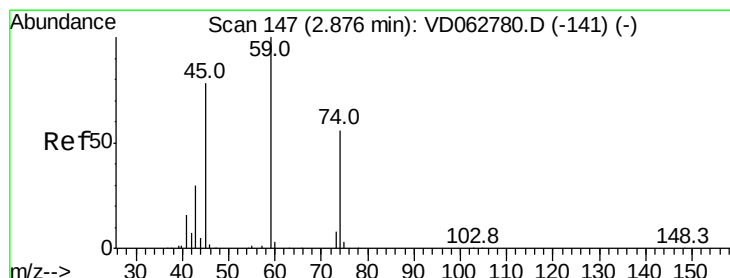
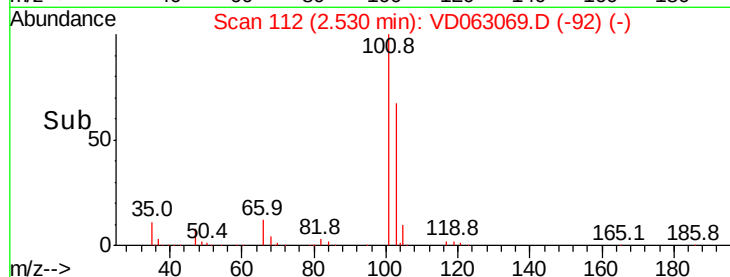
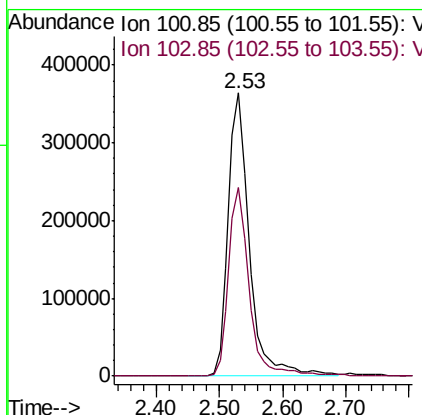
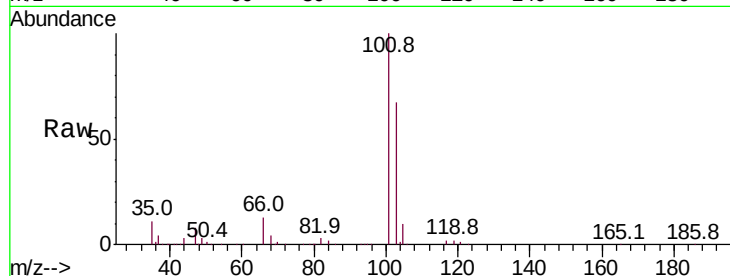
Trichlorofluoromethane
Concen: 45.954 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	844446		
103	66.8		51.8	77.8

Manual Integrations
APPROVED

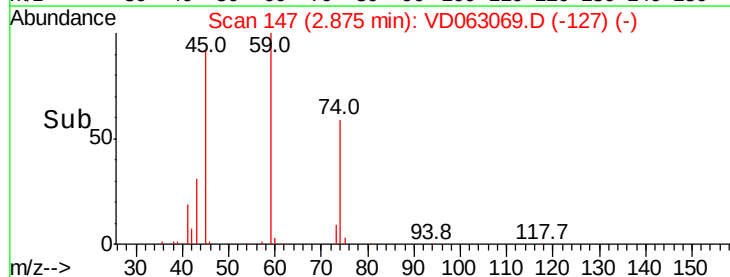
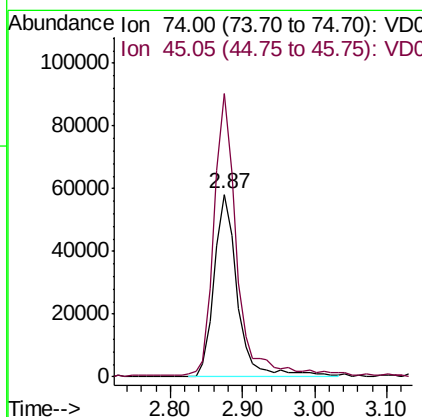
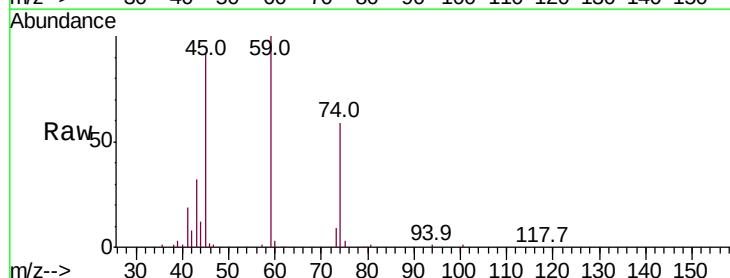
MMDadoda
7/22/2019 5:31:11 PM

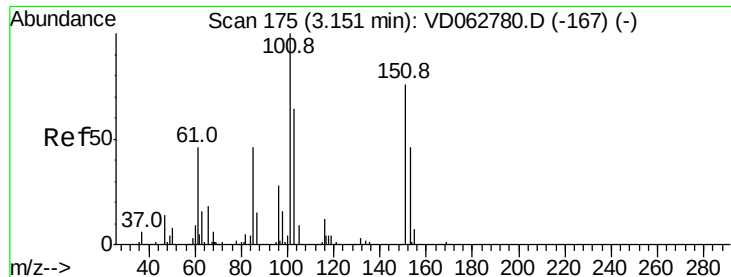


#8

Diethyl Ether
Concen: 55.525 ug/l
RT: 2.87 min Scan# 147
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	129640		
45	155.1		70.2	210.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.488 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

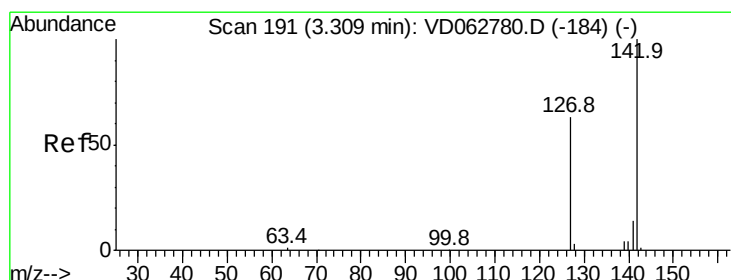
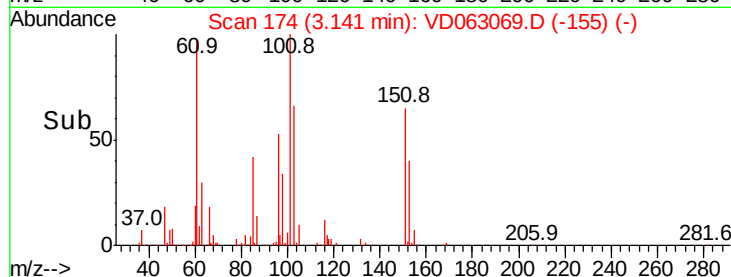
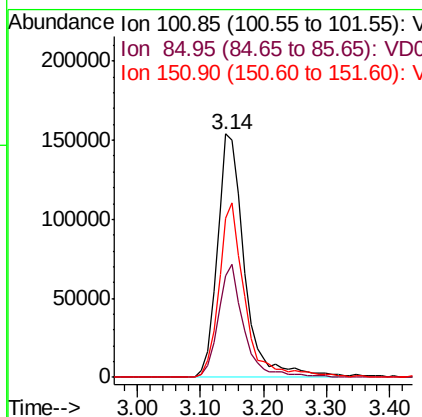
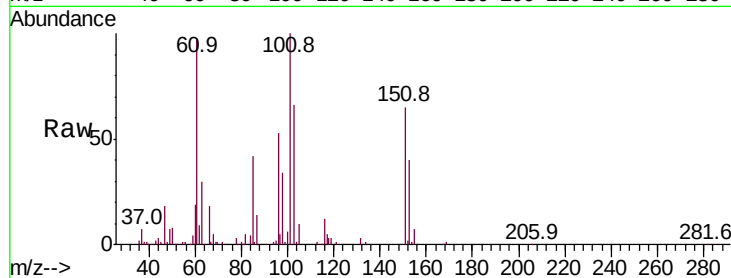
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	462796
Ion Ratio	Lower	Upper	
101	100		
85	41.5	37.0	55.4
151	65.5	60.5	90.7

Manual Integrations
APPROVED

MMDadoda
7/22/2019 5:31:11 PM



#10

Methyl Iodide

Concen: 49.370 ug/l

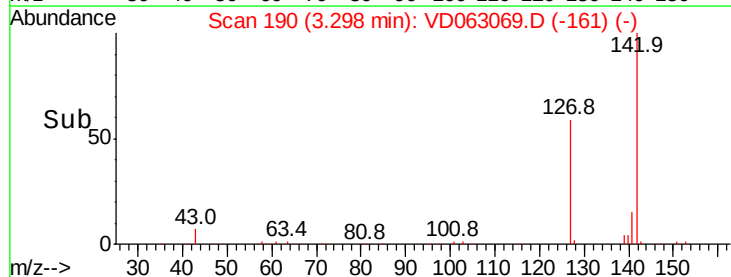
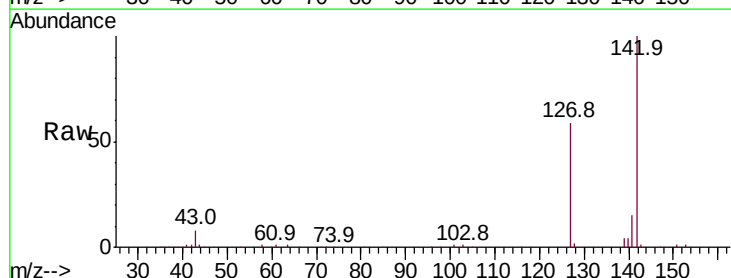
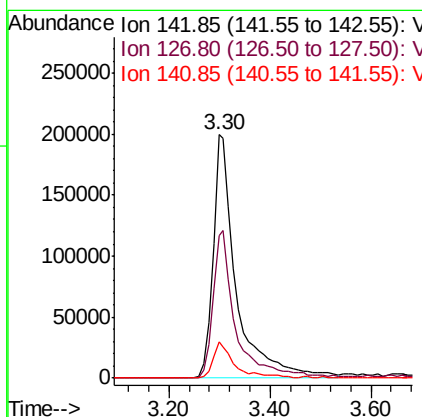
RT: 3.30 min Scan# 190

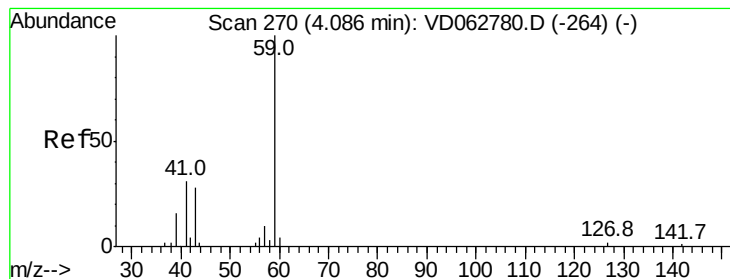
Delta R.T. -0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Tgt Ion:	142	Resp:	648408
Ion Ratio	Lower	Upper	
142	100		
127	58.7	50.1	75.1
141	15.0	11.0	16.4





#11

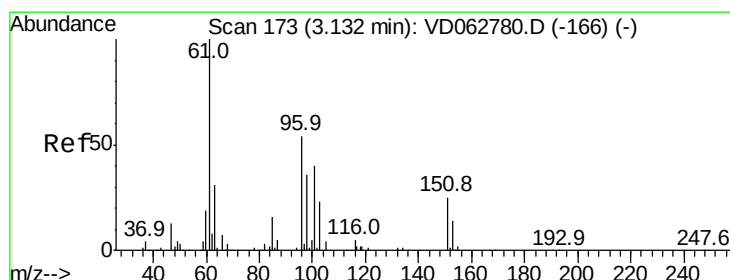
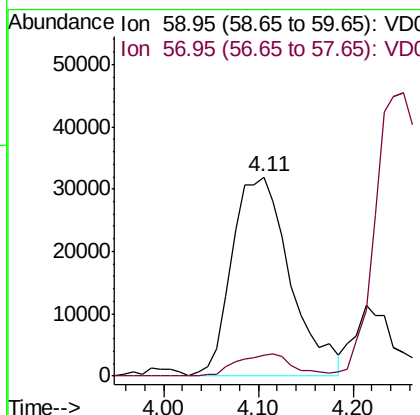
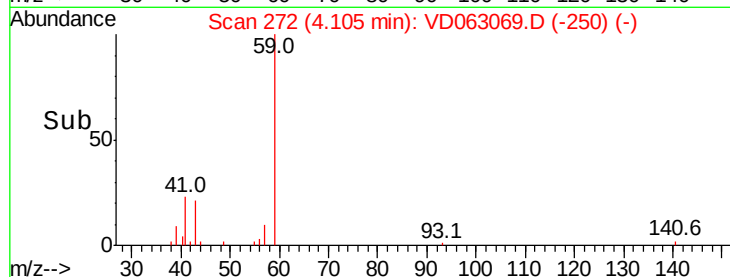
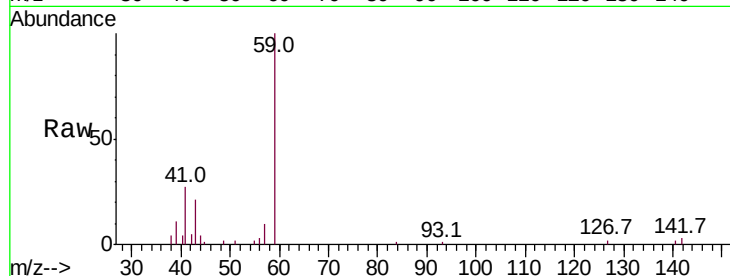
Tert butyl alcohol
Concen: 293.400 ug/l
RT: 4.11 min Scan# 272
Delta R.T. 0.02 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 136681
Ion Ratio Lower Upper
59 100
57 10.3 6.6 10.0#

Manual Integrations
APPROVED

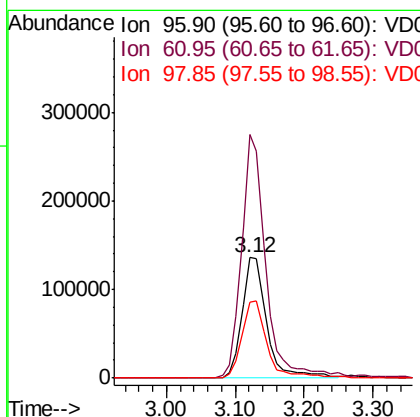
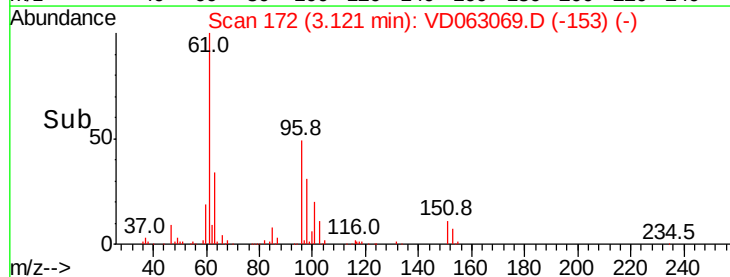
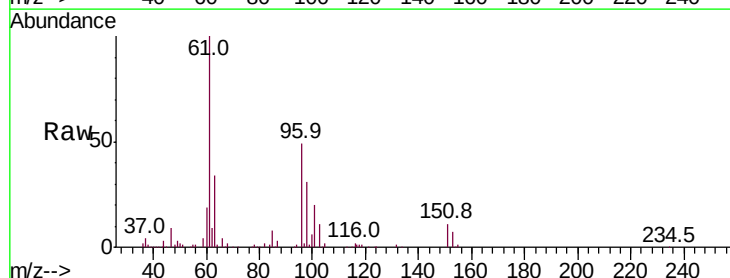
MMDadoda
7/22/2019 5:31:11 PM

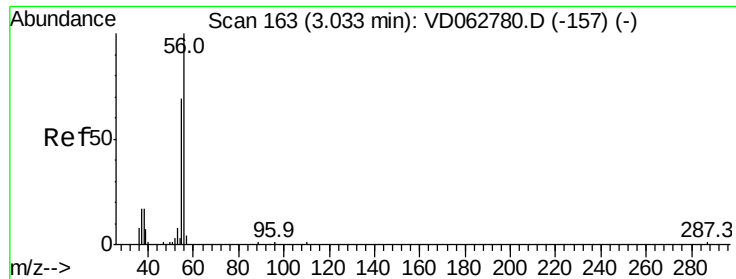


#12

1,1-Dichloroethene
Concen: 45.620 ug/l
RT: 3.12 min Scan# 172
Delta R.T. -0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion: 96 Resp: 340693
Ion Ratio Lower Upper
96 100
61 202.1 147.1 220.7
98 63.1 52.6 79.0





#13

Acrolein

Concen: 231.109 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 109911

Ion Ratio Lower Upper

56 100

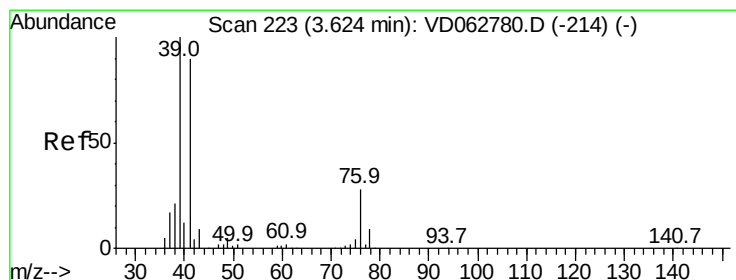
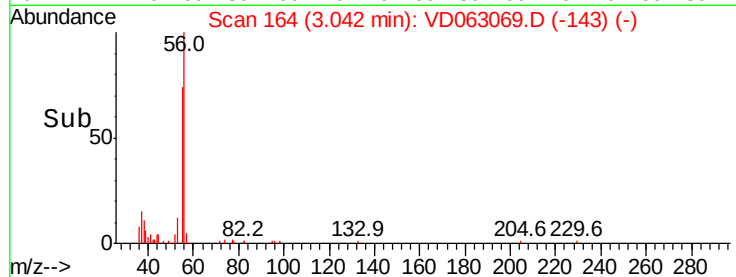
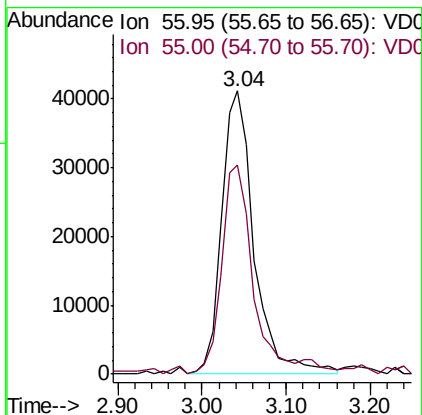
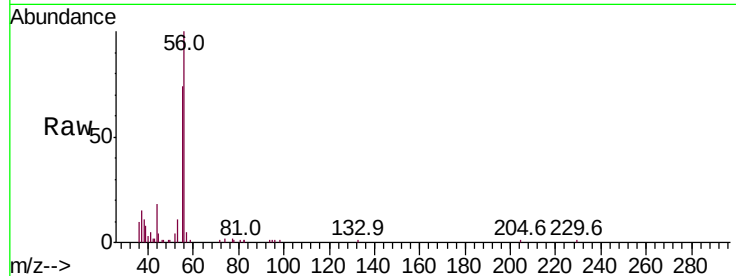
55 74.0 55.4 83.0

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



#14

Allyl chloride

Concen: 55.582 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

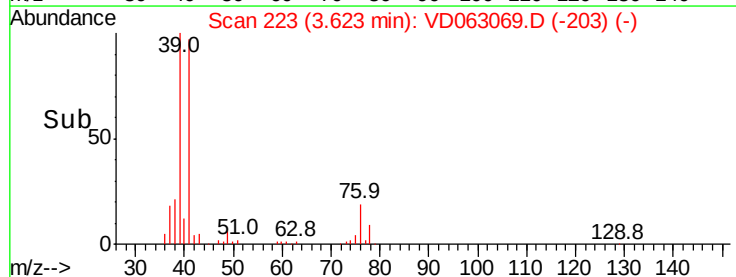
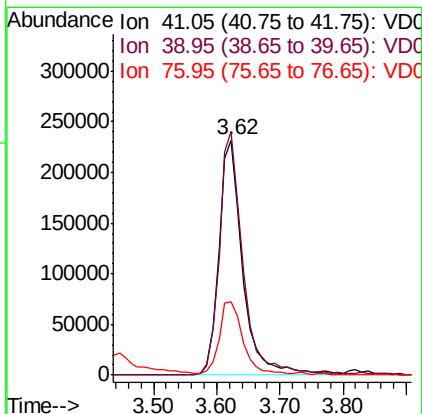
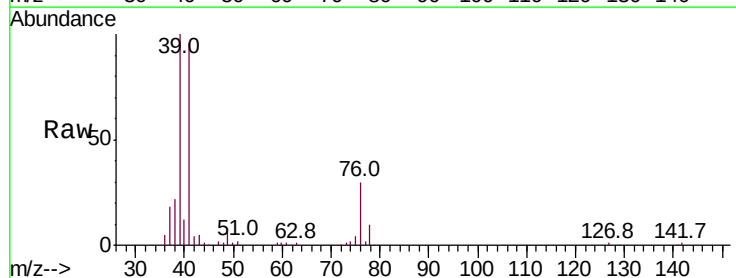
Tgt Ion: 41 Resp: 613338

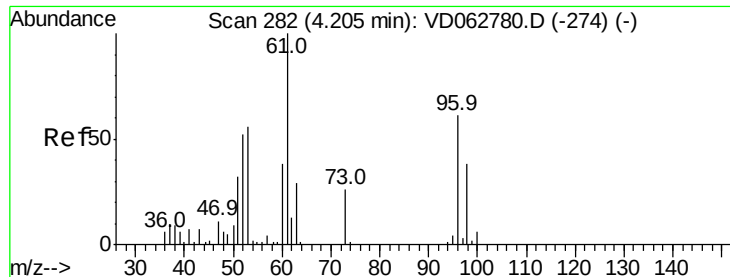
Ion Ratio Lower Upper

41 100

39 103.6 88.8 133.2

76 31.4 26.7 40.1





#15

Acrylonitrile

Concen: 321.717 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 352160

Ion Ratio Lower Upper

53 100

52 85.3 73.3 109.9

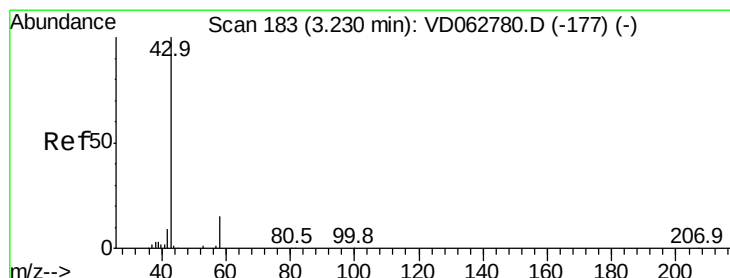
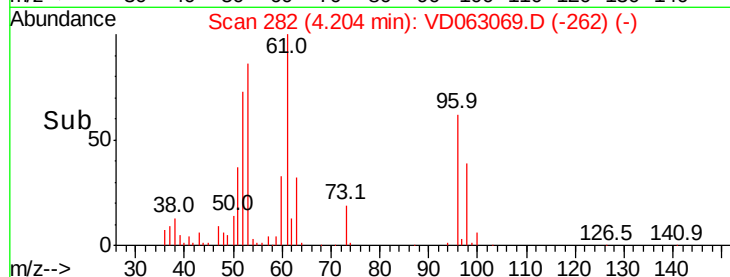
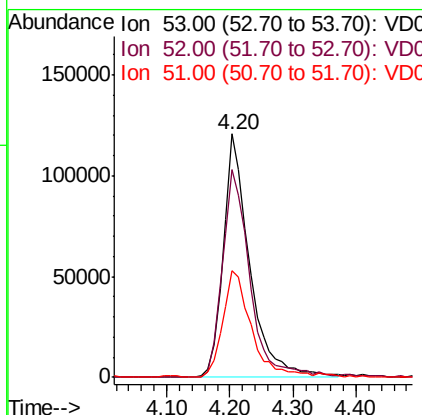
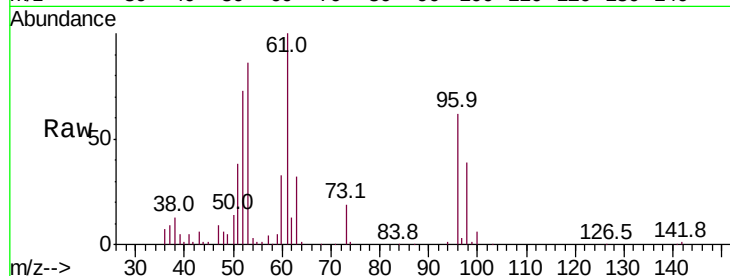
51 43.9 44.8 67.2#

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



#16

Acetone

Concen: 310.592 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD063069.D

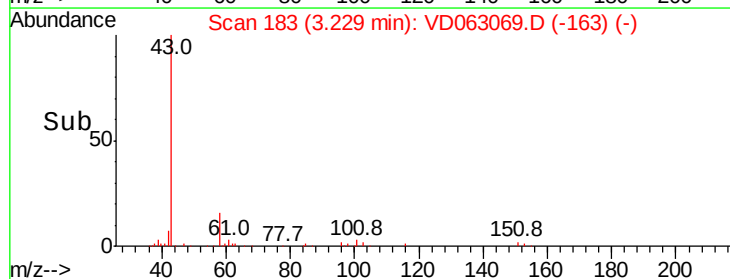
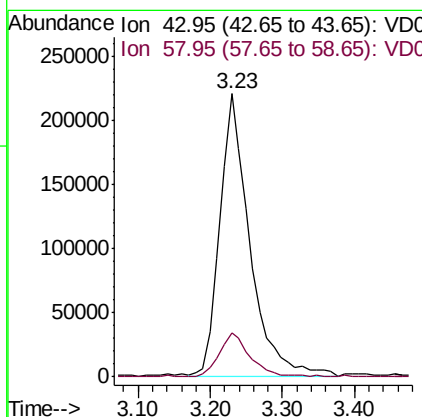
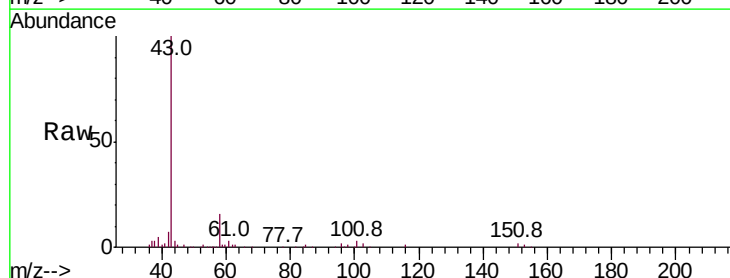
Acq: 12 Jul 2019 14:01

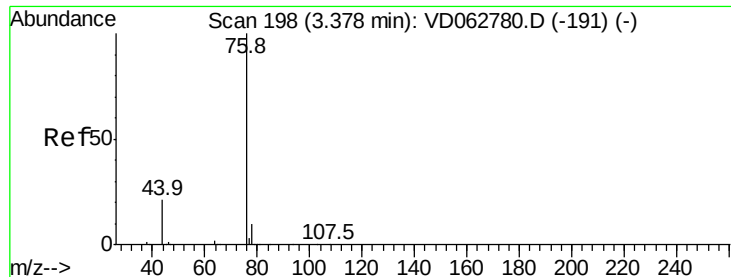
Tgt Ion: 43 Resp: 640727

Ion Ratio Lower Upper

43 100

58 15.7 11.9 17.9





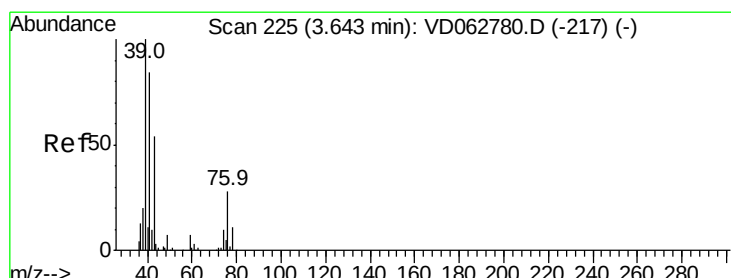
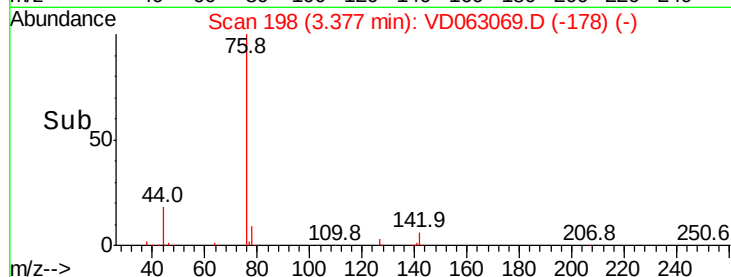
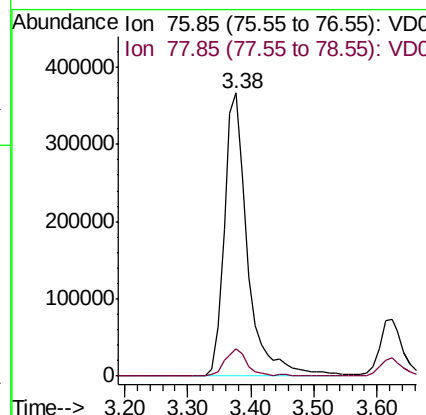
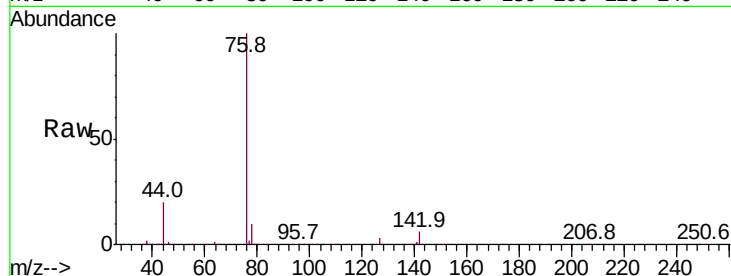
#17
Carbon Disulfide
Concen: 39.650 ug/l
RT: 3.38 min Scan# 198
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 946357
Ion Ratio Lower Upper
76 100
78 9.8 8.0 12.0

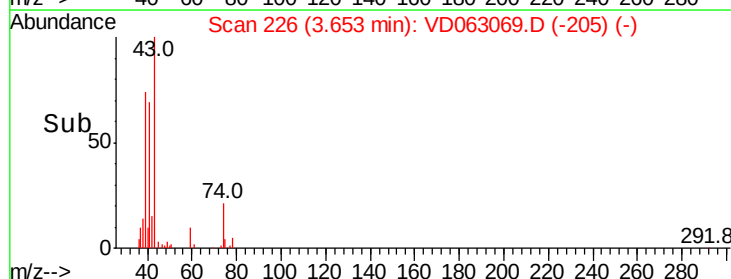
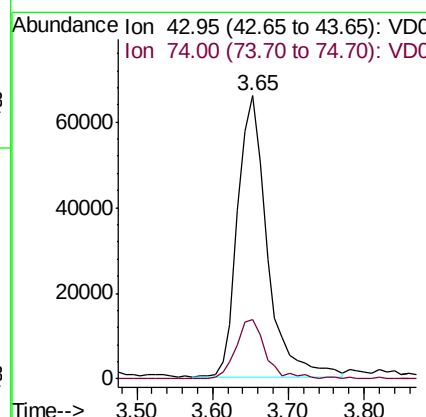
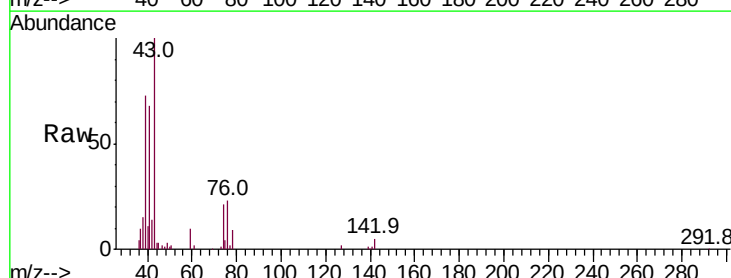
Manual Integrations
APPROVED

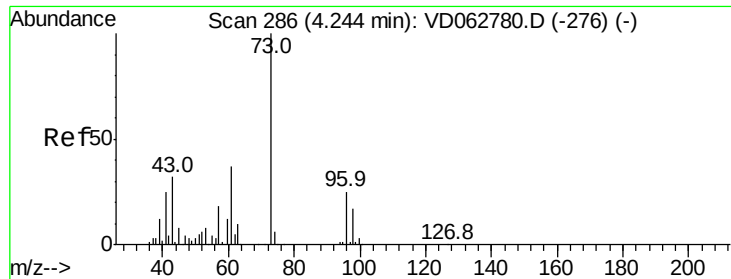
MMDadoda
7/22/2019 5:31:11 PM



#18
Methyl Acetate
Concen: 57.147 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion: 43 Resp: 176455
Ion Ratio Lower Upper
43 100
74 20.9 15.2 22.8





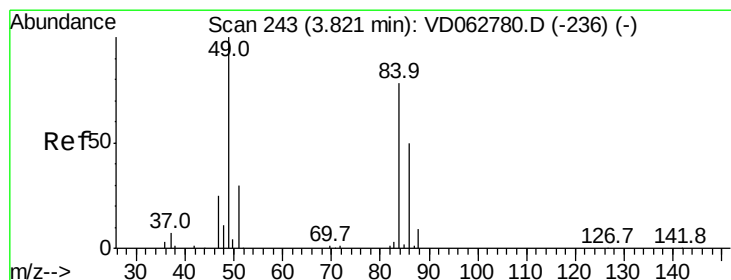
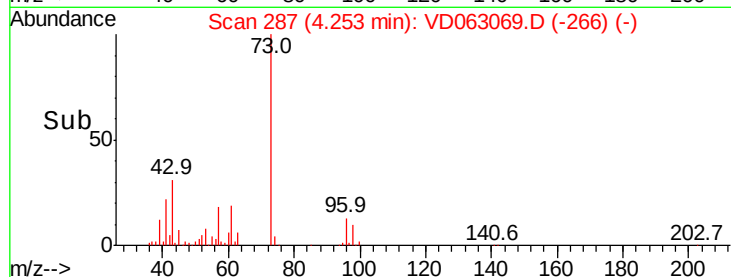
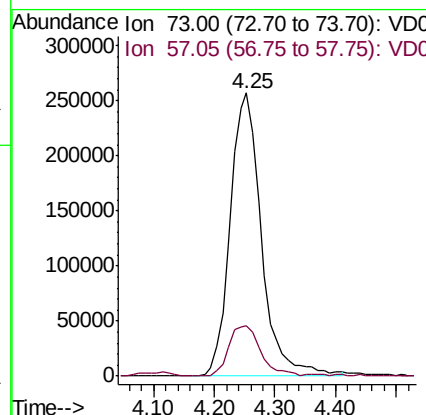
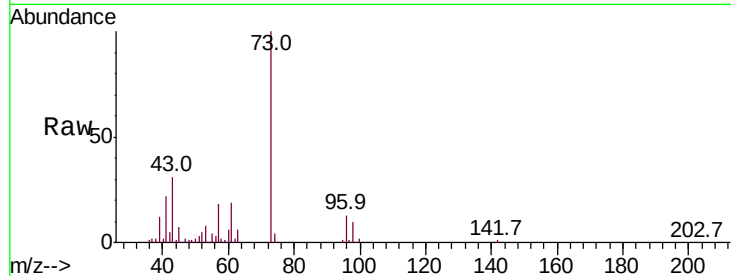
#19
Methyl tert-butyl Ether
Concen: 56.901 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampled :
VSTDCCC050

Tot Ion: 73 Resp: 919908
Ion Ratio Lower Upper
73 100
57 17.7 14.3 21.5

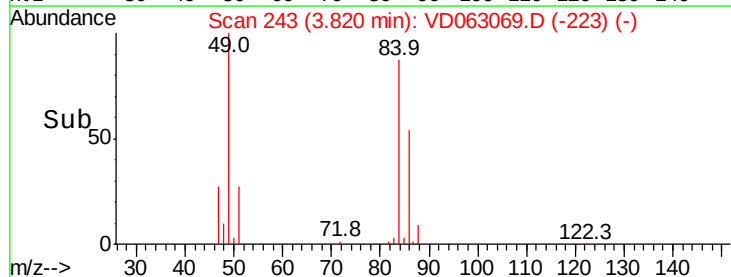
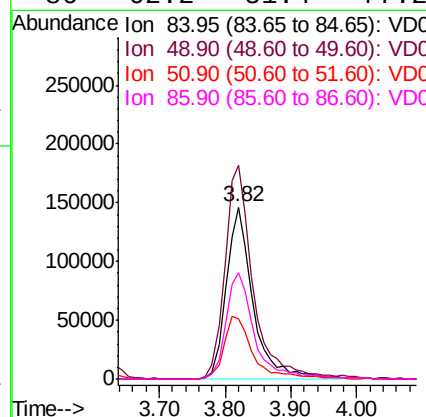
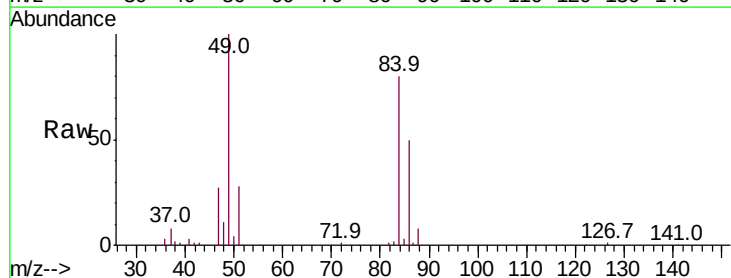
Manual Integrations
APPROVED

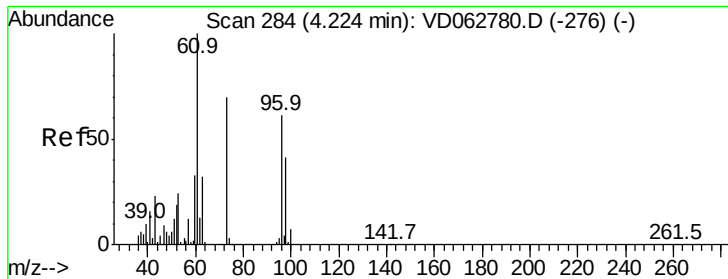
MMDadoda
7/22/2019 5:31:11 PM



#20
Methylene Chloride
Concen: 52.993 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion: 84 Resp: 413378
Ion Ratio Lower Upper
84 100
49 124.5 102.9 154.3
51 34.9 31.2 46.8
86 62.2 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 51.922 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 412875

Ion Ratio Lower Upper

96 100

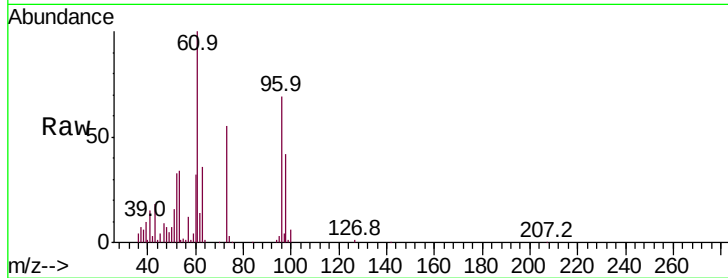
61 144.3 131.0 196.4

98 60.9 53.2 79.8

Manual Integrations
APPROVED

MMDadoda

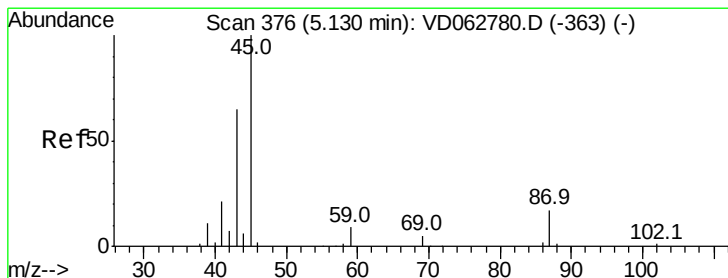
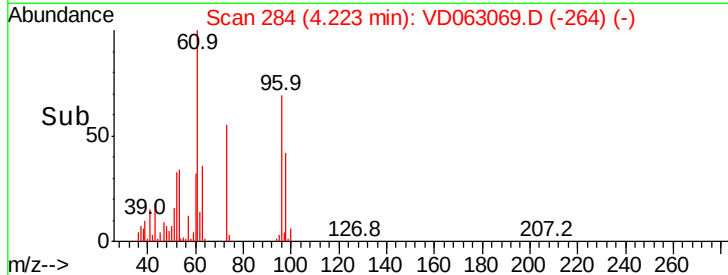
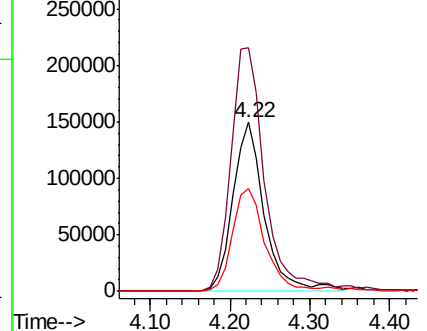
7/22/2019 5:31:11 PM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 58.904 ug/l

RT: 5.13 min Scan# 376

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Tgt Ion: 45 Resp: 1321868

Ion Ratio Lower Upper

45 100

43 72.9 53.4 80.0

87 19.5 14.6 22.0

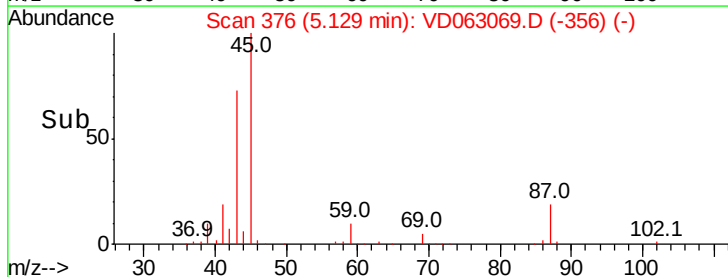
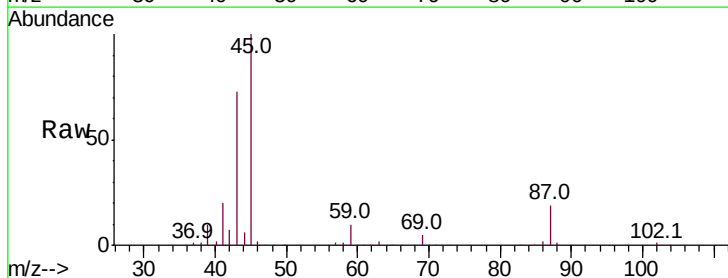
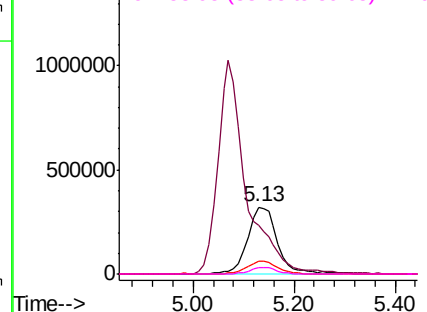
59 9.9 7.8 11.8

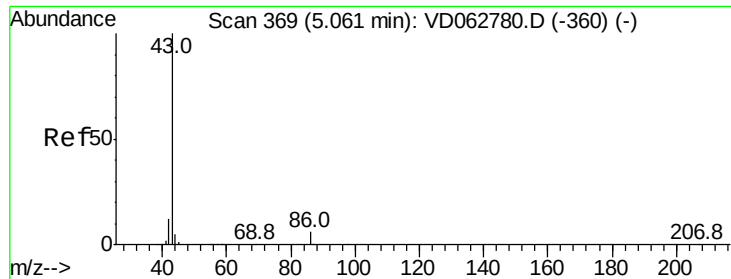
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 284.125 ug/l

RT: 5.07 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3989775

Ion Ratio Lower Upper

43 100

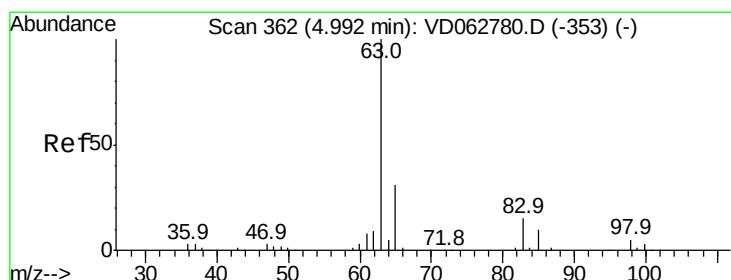
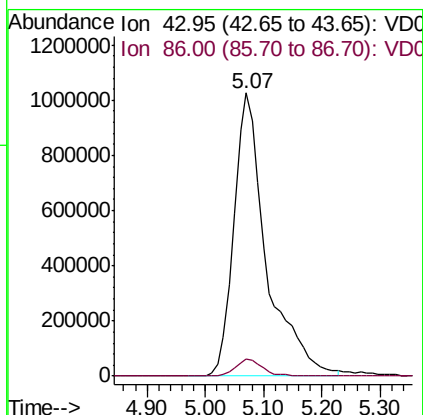
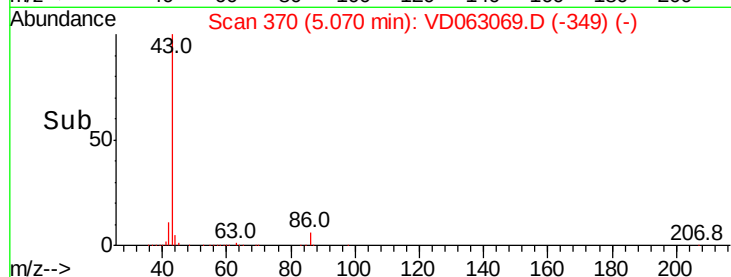
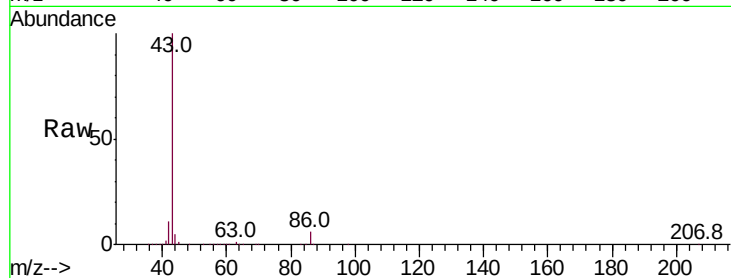
86 6.3 4.7 7.1

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



#24

1,1-Dichloroethane

Concen: 53.193 ug/l

RT: 4.99 min Scan# 362

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

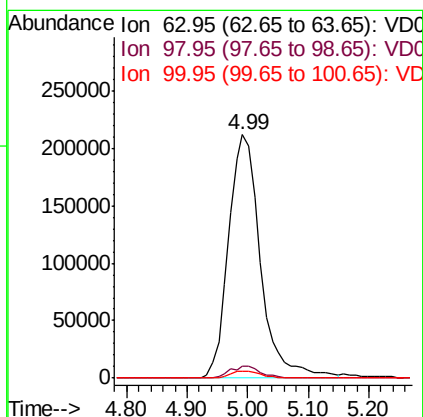
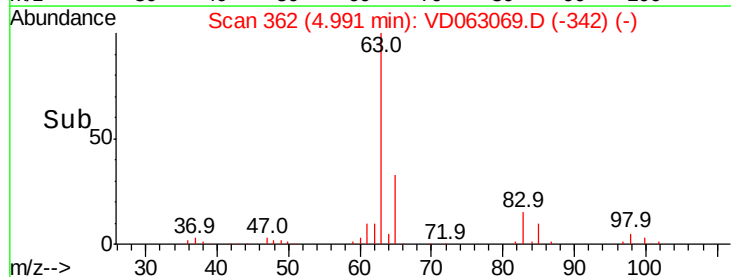
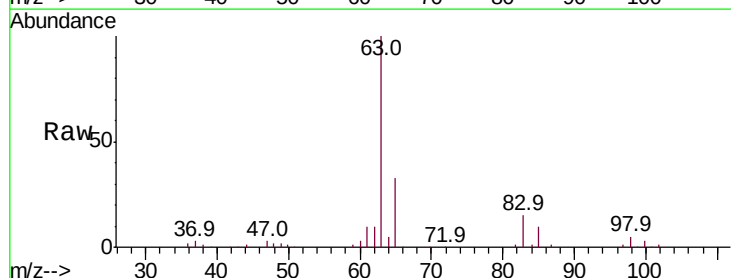
Tgt Ion: 63 Resp: 777197

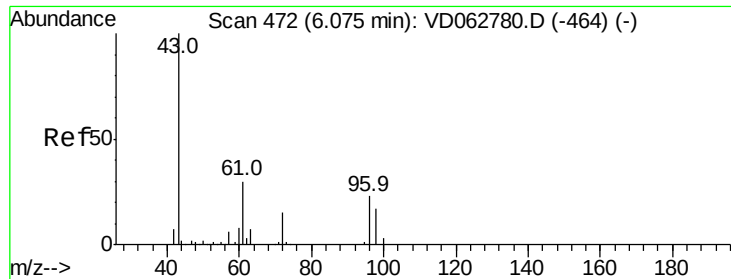
Ion Ratio Lower Upper

63 100

98 5.1 2.3 6.9

100 2.9 1.7 5.1





#25

2-Butanone

Concen: 306.536 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 586413

Ion Ratio Lower Upper

43 100

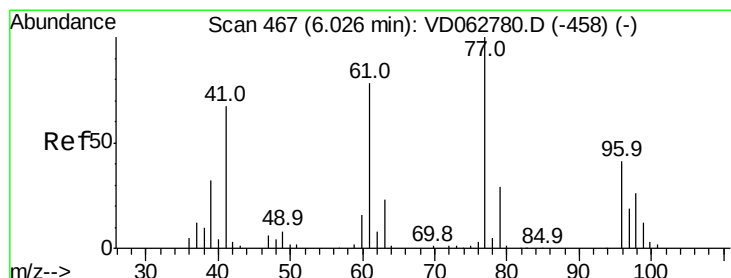
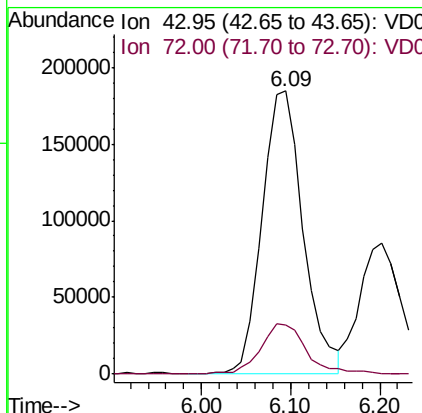
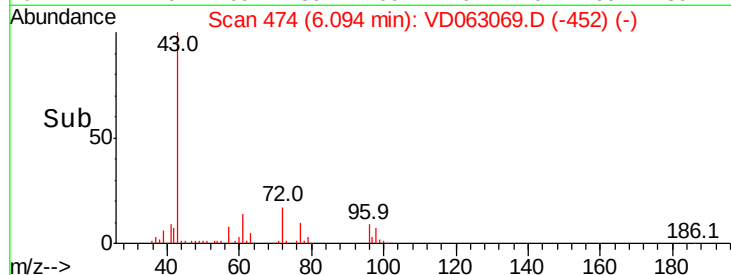
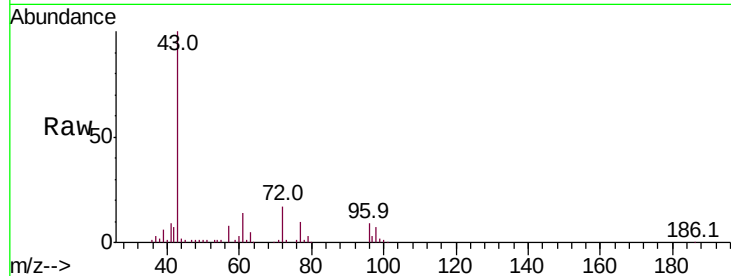
72 17.3 11.9 17.9

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



#26

2,2-Dichloropropane

Concen: 52.290 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD063069.D

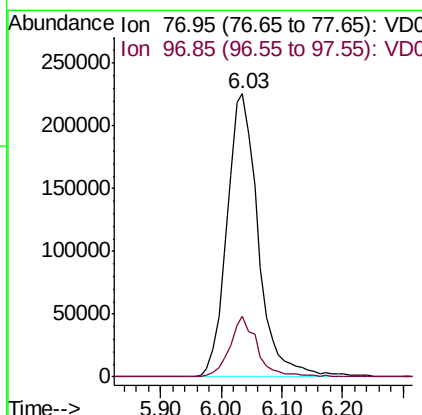
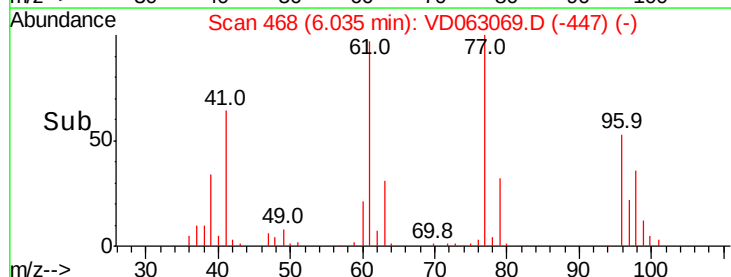
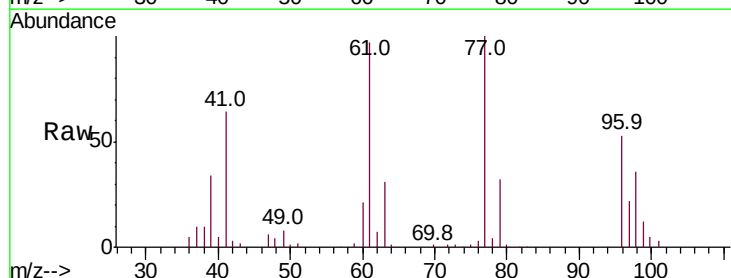
Acq: 12 Jul 2019 14:01

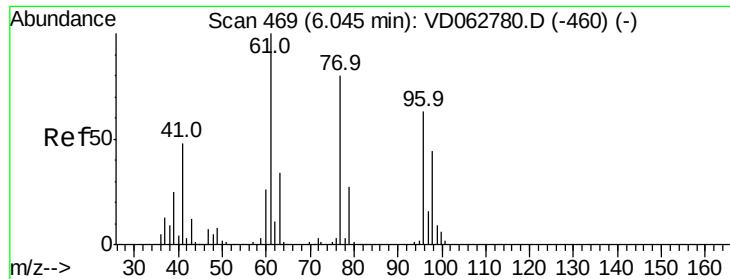
Tgt Ion: 77 Resp: 809803

Ion Ratio Lower Upper

77 100

97 21.6 9.5 28.5





#27

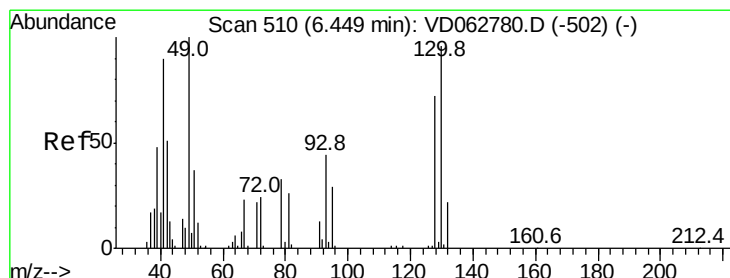
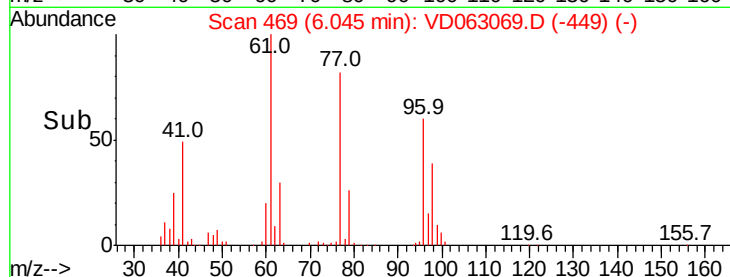
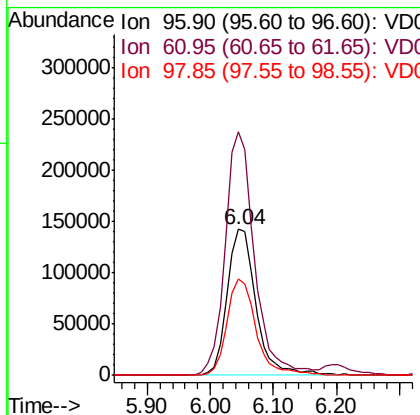
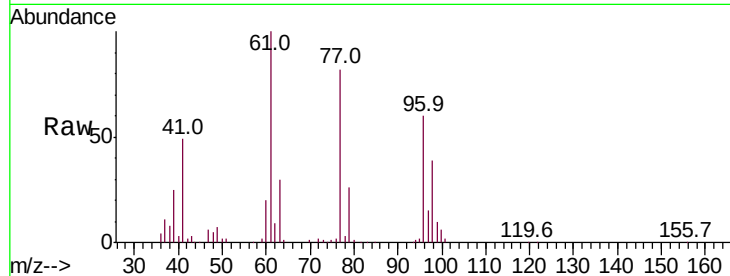
cis-1,2-Dichloroethene
Concen: 53.323 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	166.9	0.0	316.0
98	65.9	0.0	138.4

Manual Integrations
APPROVED

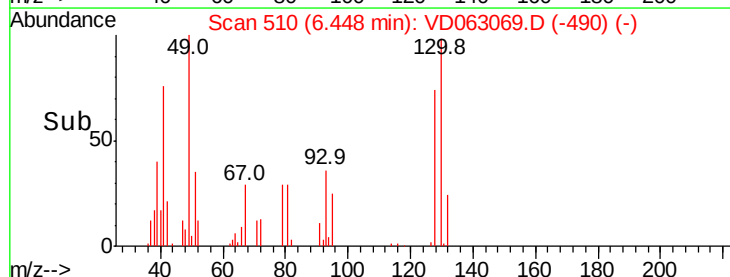
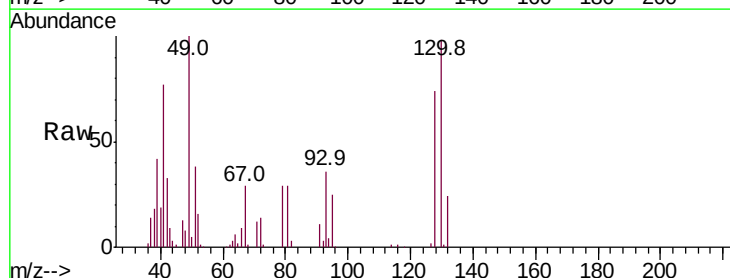
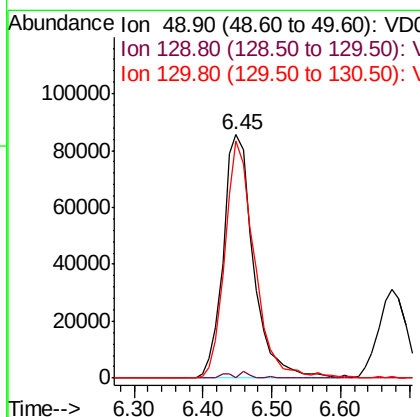
MMDadoda
7/22/2019 5:31:11 PM

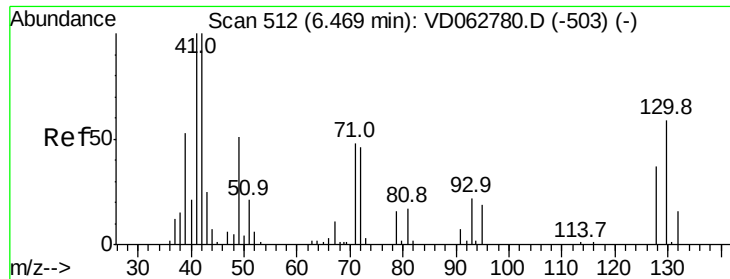


#28

Bromochloromethane
Concen: 50.646 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	97.7	76.6	114.8





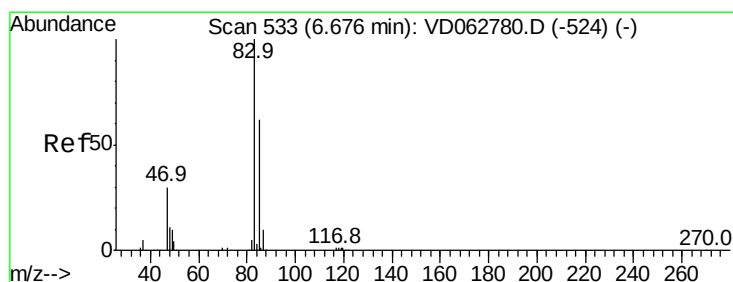
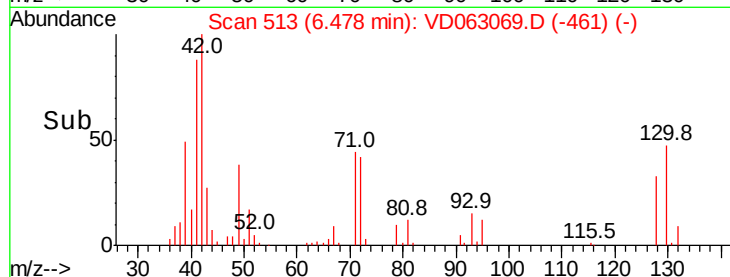
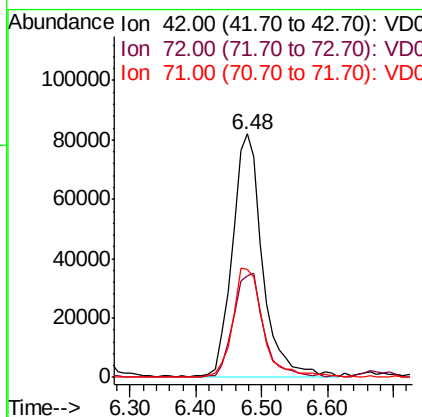
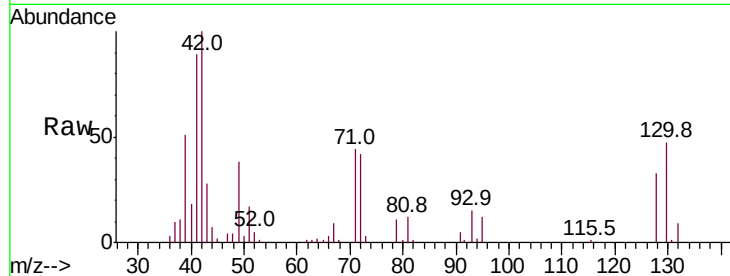
#29
Tetrahydrofuran
Concen: 291.488 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.0	52.6
71	45.3	33.3	49.9

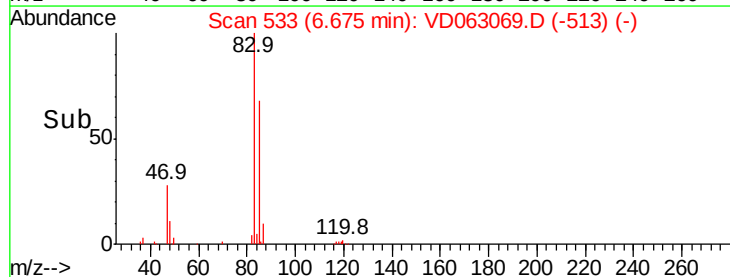
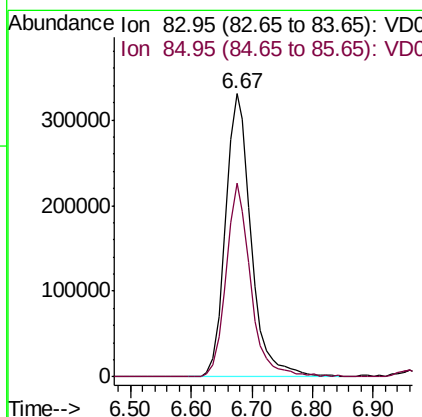
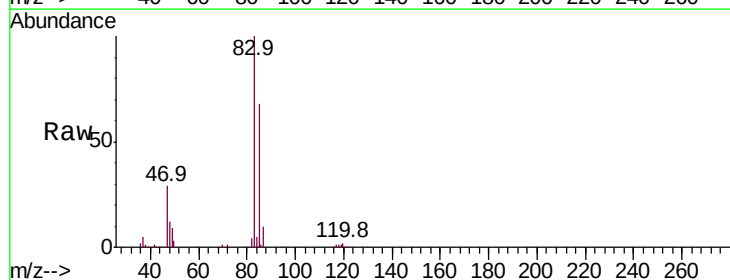
Manual Integrations
APPROVED

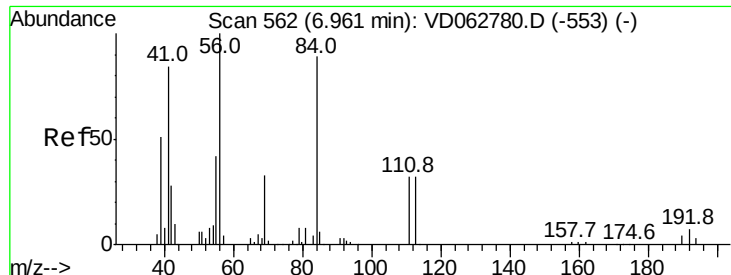
MMDadoda
7/22/2019 5:31:11 PM



#30
Chloroform
Concen: 54.480 ug/l
RT: 6.67 min Scan# 533
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.3	49.8	74.6





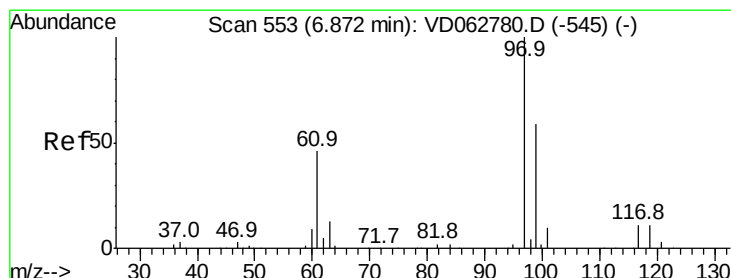
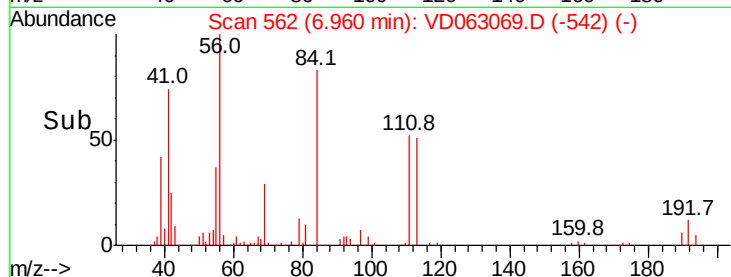
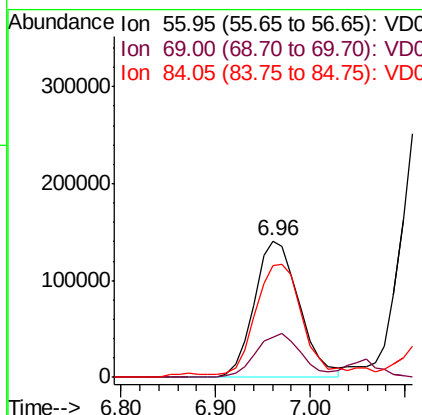
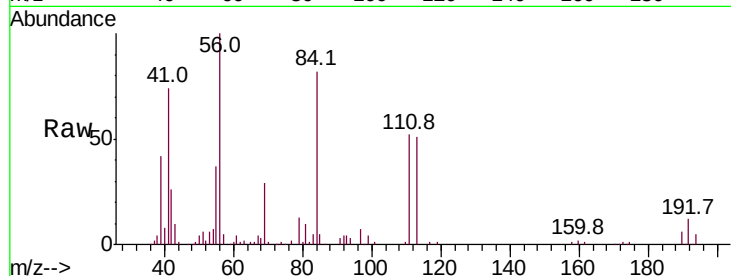
#31
Cyclohexane
Concen: 48.485 ug/l
RT: 6.96 min Scan# 562
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.0	26.6	39.8
84	82.3	75.5	113.3

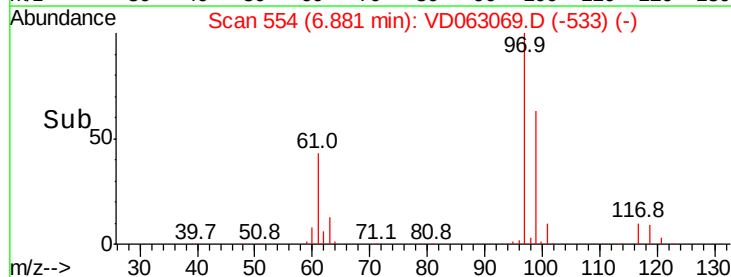
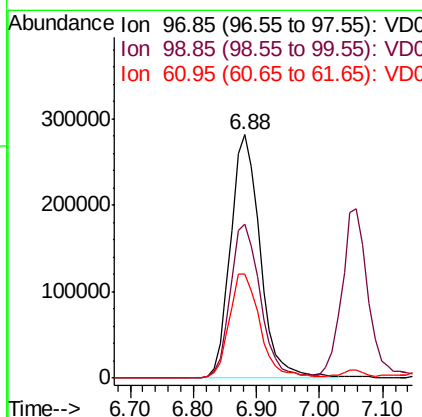
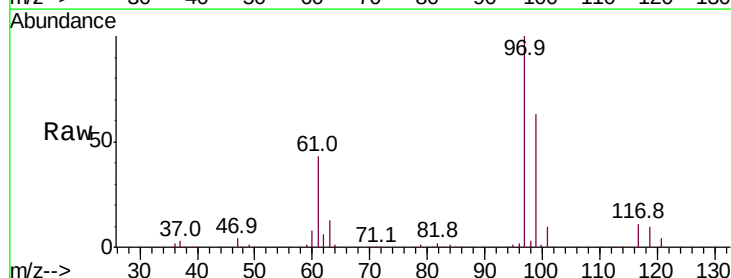
Manual Integrations
APPROVED

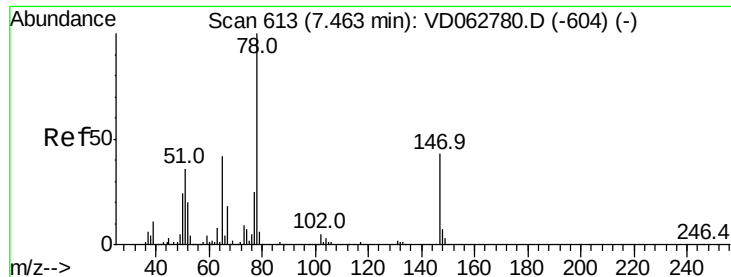
MMDadoda
7/22/2019 5:31:11 PM



#32
1,1,1-Trichloroethane
Concen: 49.443 ug/l
RT: 6.88 min Scan# 554
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.0	47.4	71.2
61	42.6	37.2	55.8





#33

1,2-Dichloroethane-d4

Concen: 45.537 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 465778

Ion Ratio Lower Upper

65 100

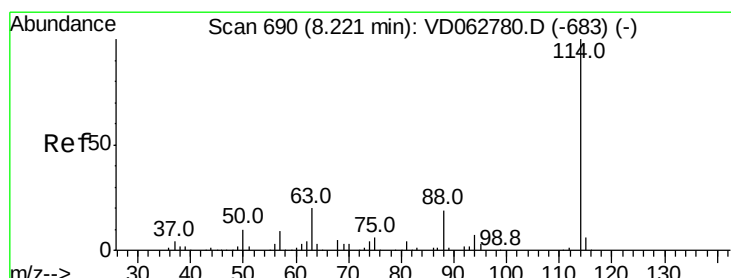
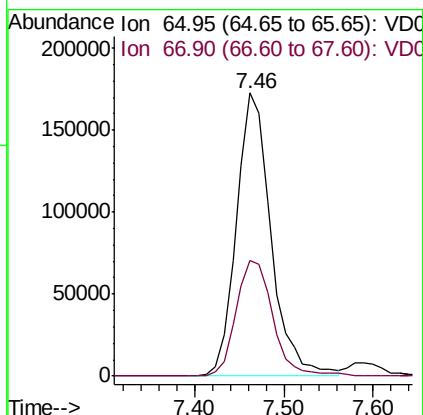
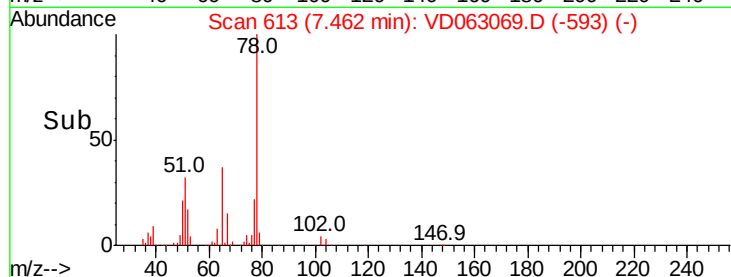
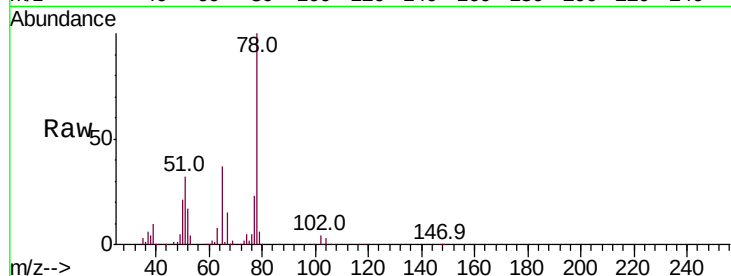
67 40.8 0.0 87.4

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

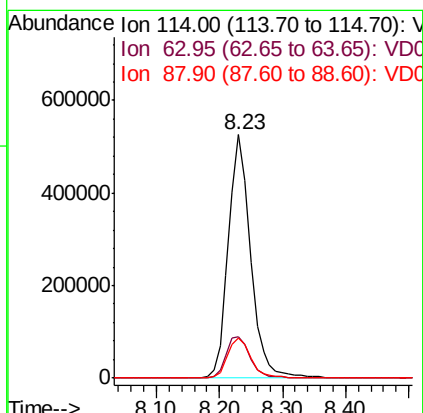
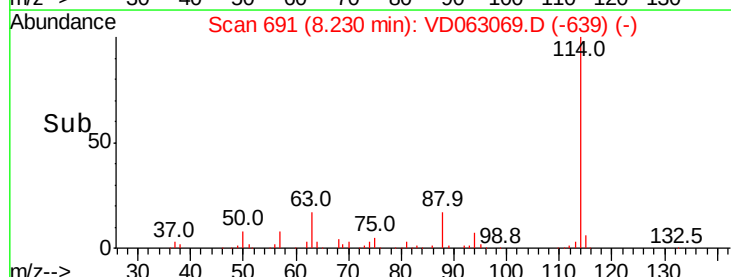
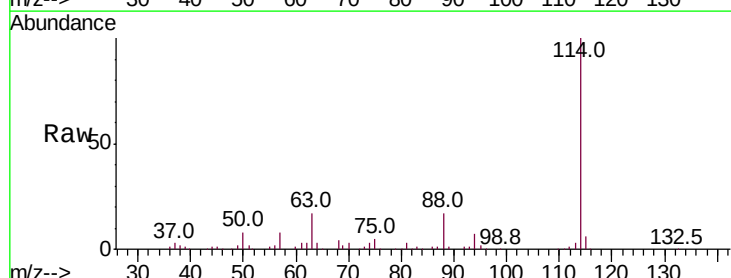
Tgt Ion: 114 Resp: 1284336

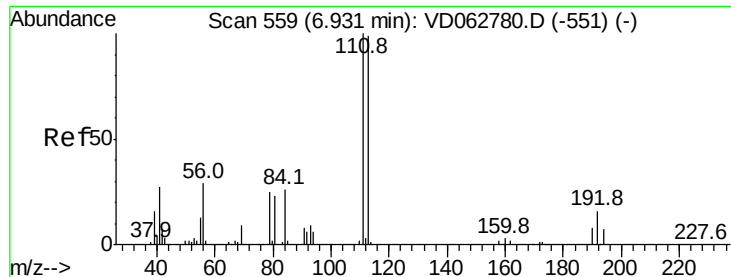
Ion Ratio Lower Upper

114 100

63 17.3 0.0 40.0

88 16.6 0.0 38.8





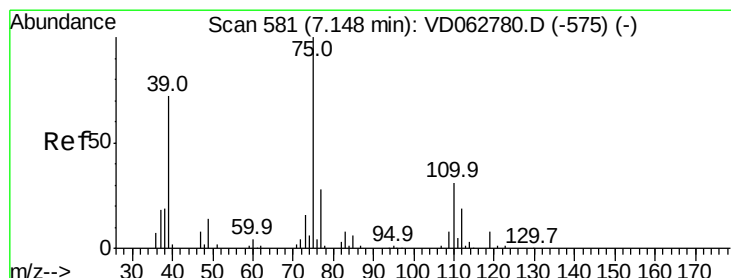
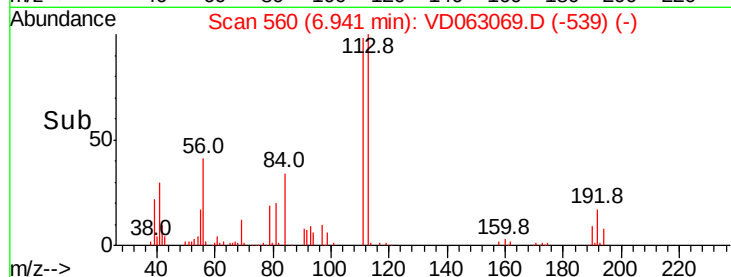
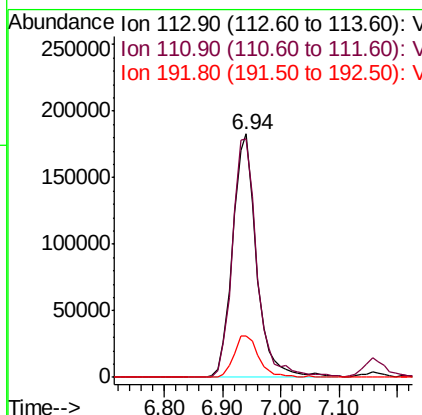
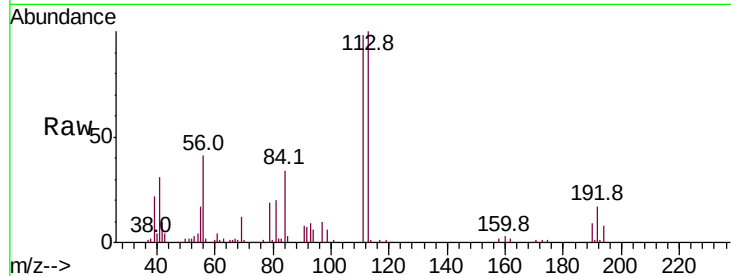
#35
 Dibromofluoromethane
 Concen: 48.151 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	97.9	81.2	121.8
192	16.8	12.9	19.3

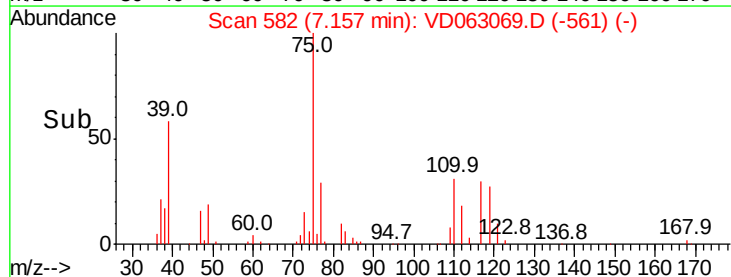
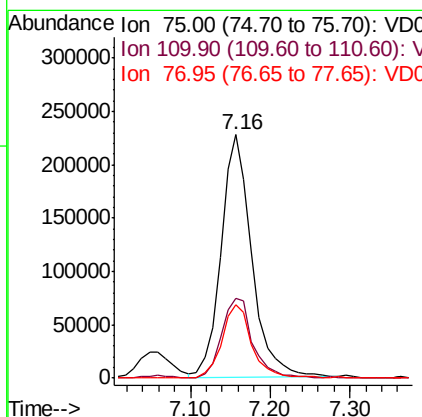
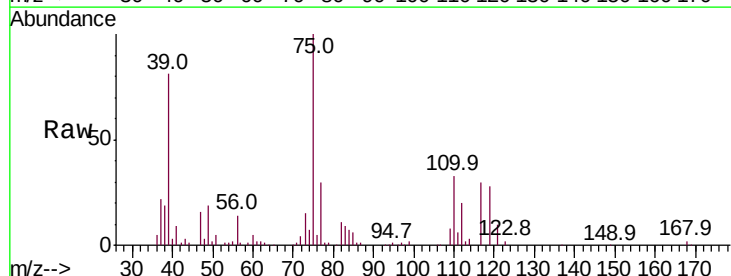
Manual Integrations
 APPROVED

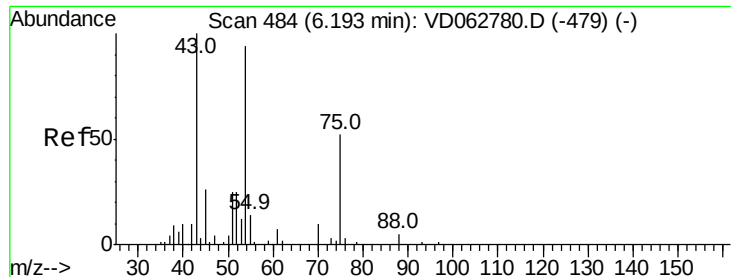
MMDadoda
 7/22/2019 5:31:11 PM



#36
 1,1-Dichloropropene
 Concen: 50.459 ug/l
 RT: 7.16 min Scan# 582
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.7	15.0	45.1
77	30.1	22.2	33.2





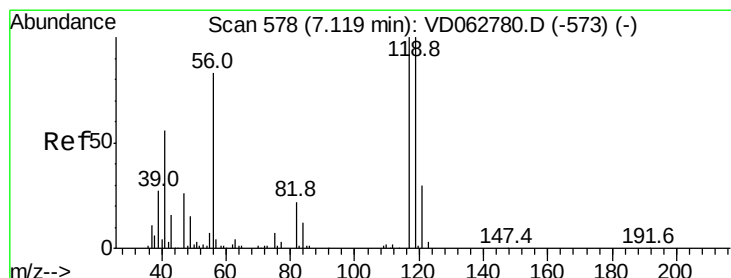
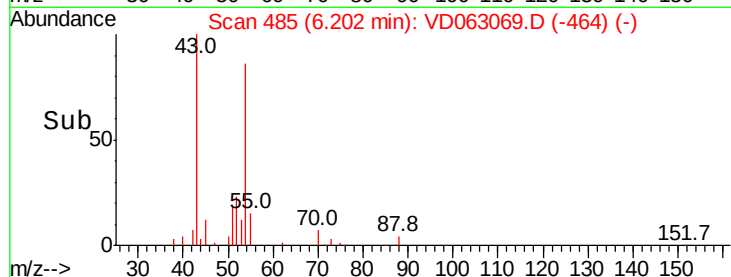
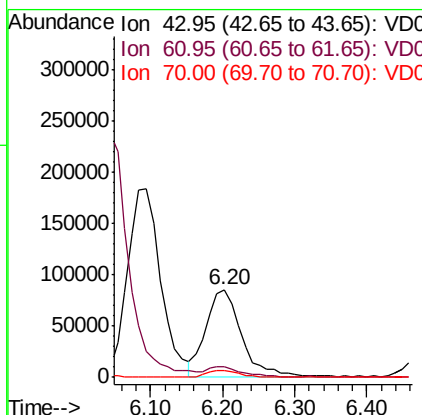
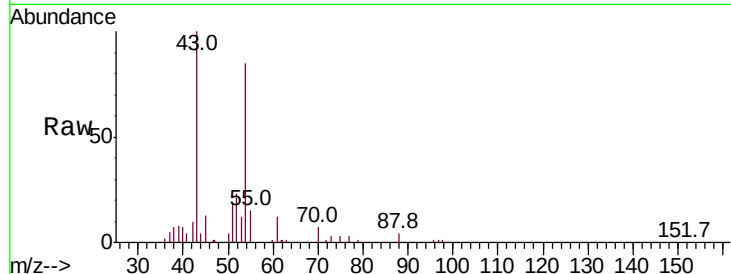
#37
Ethyl Acetate
Concen: 57.341 ug/l
RT: 6.20 min Scan# 485
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.1	11.6	17.4
70	7.4	6.4	9.6

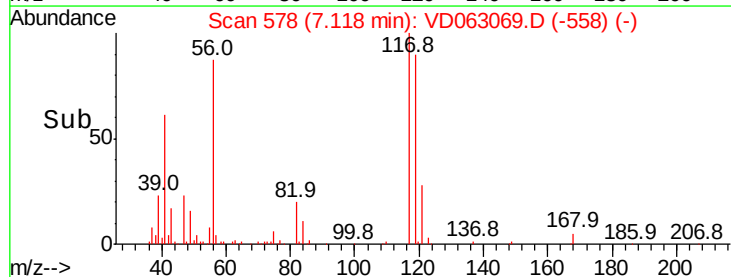
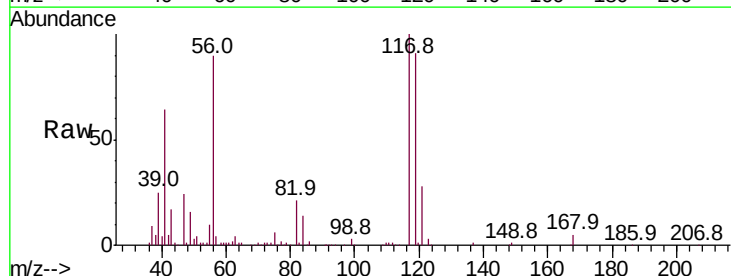
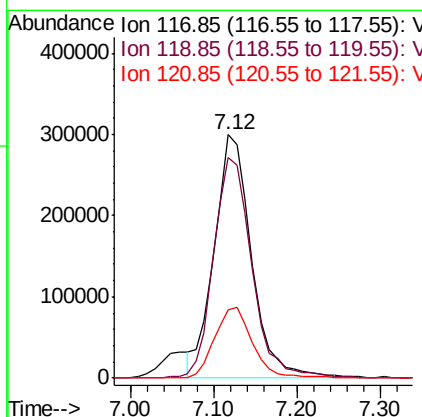
Manual Integrations
APPROVED

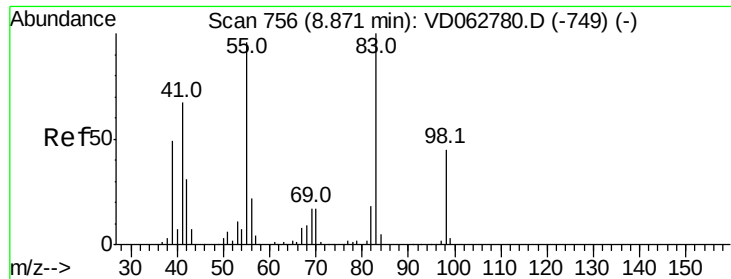
MMDadoda
7/22/2019 5:31:11 PM



#38
Carbon Tetrachloride
Concen: 51.074 ug/l m
RT: 7.12 min Scan# 578
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.7	75.4	113.2
121	28.2	22.3	33.5





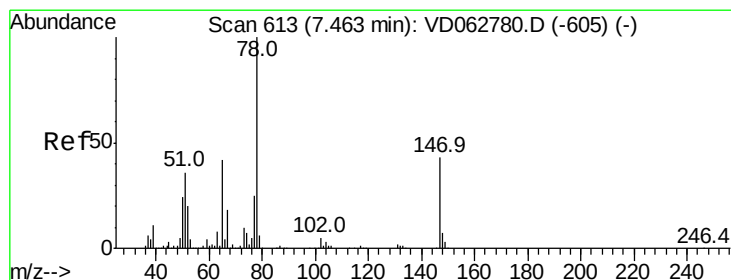
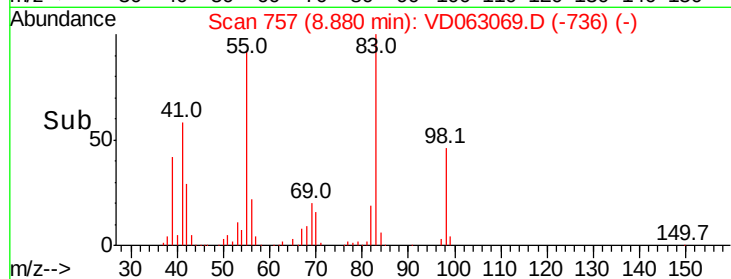
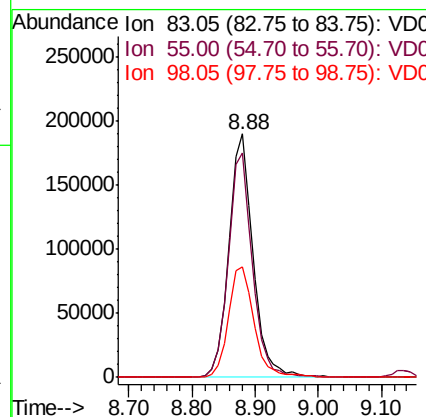
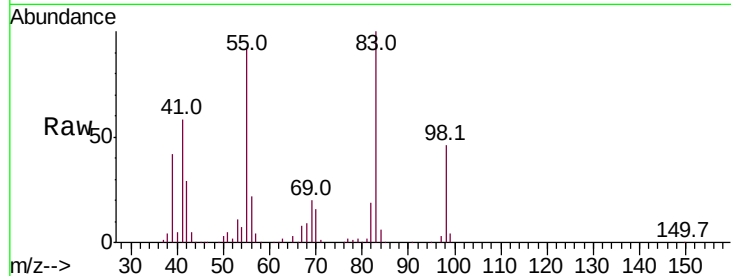
#39
Methylvlcyclohexane
Concen: 46.930 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	502246
Ion Ratio	100	Lower	Upper
83	100		
55	92.0	76.6	115.0
98	45.6	35.7	53.5

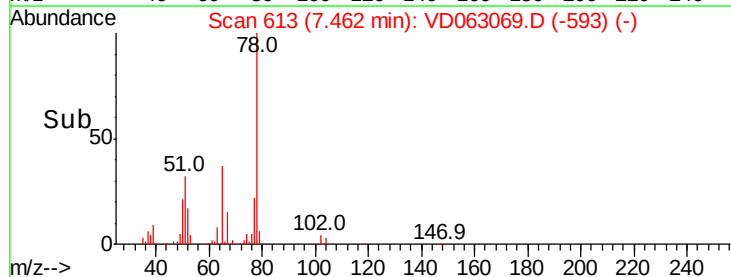
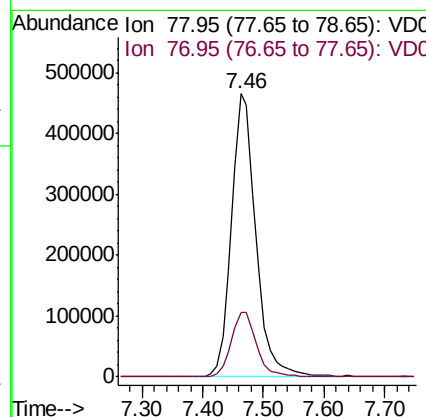
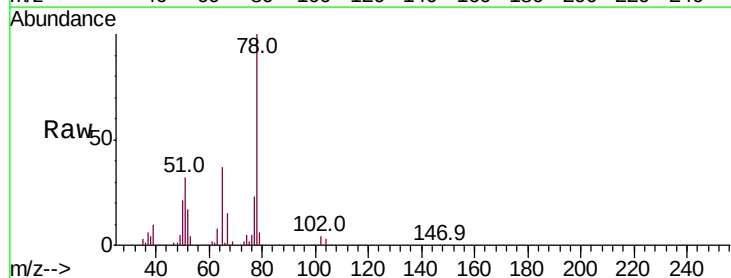
Manual Integrations
APPROVED

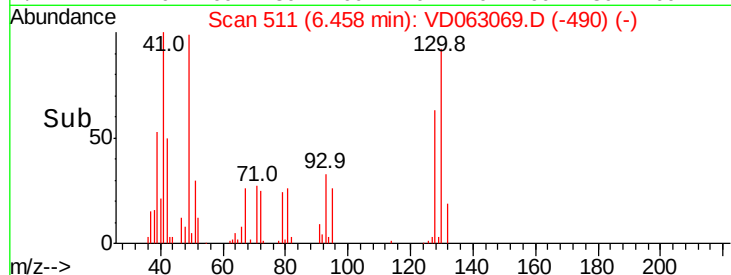
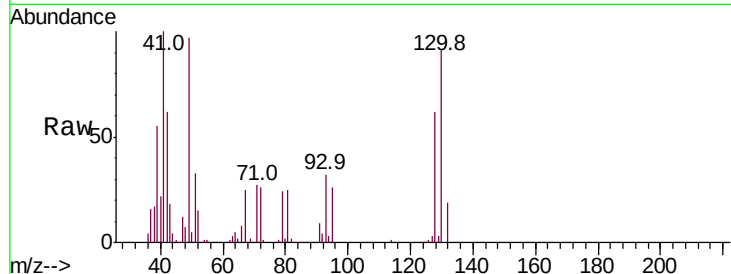
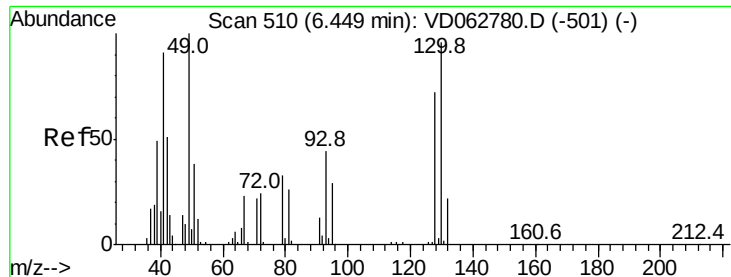
MMDadoda
7/22/2019 5:31:11 PM



#40
Benzene
Concen: 53.326 ug/l
RT: 7.46 min Scan# 613
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	78	Resp	1301406
Ion Ratio	100	Lower	Upper
78	100		
77	22.6	20.2	30.2





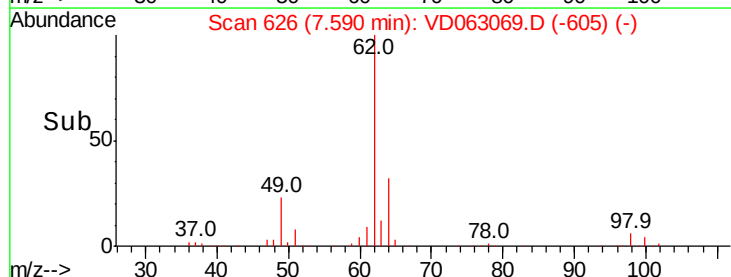
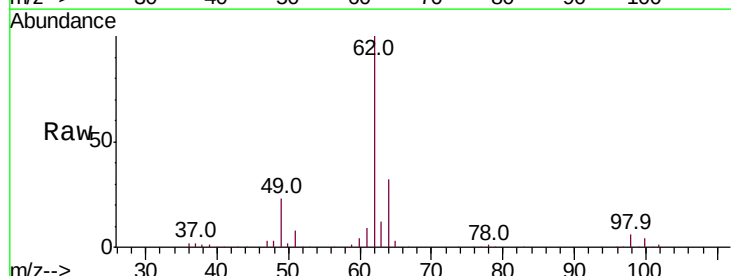
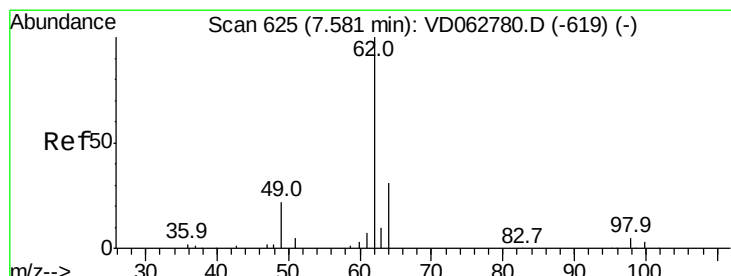
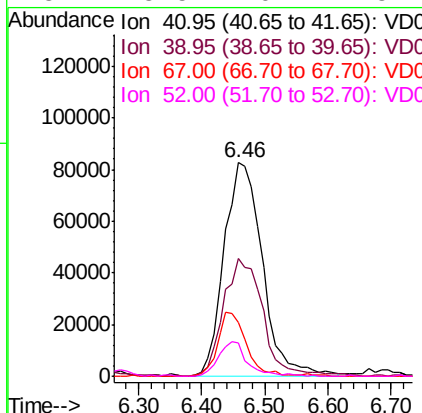
#41
Methacrylonitrile
Concen: 54.535 ug/l
RT: 6.46 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.8	43.2	64.8
67	25.4	19.9	29.9
52	15.5	10.2	15.4

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

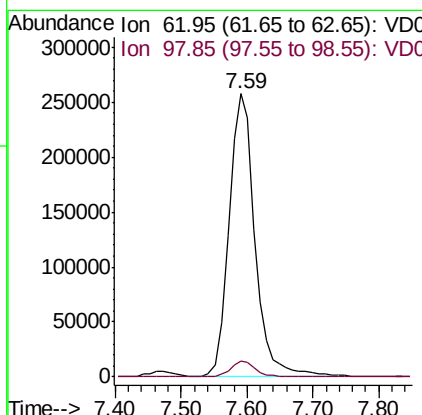
Manual Integrations
APPROVED

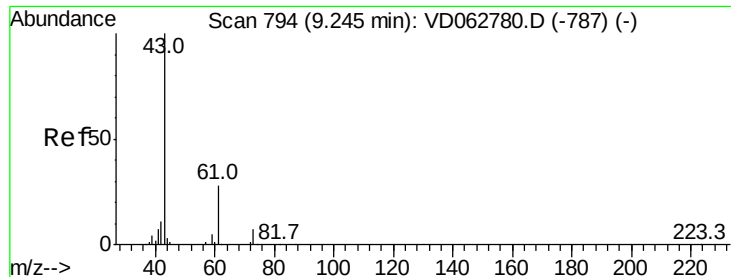
MMDadoda
7/22/2019 5:31:11 PM



#42
1,2-Dichloroethane
Concen: 53.273 ug/l
RT: 7.59 min Scan# 626
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.7	0.0	10.0





#43

Isopropyl Acetate

Concen: 62.350 ug/l

RT: 9.25 min Scan# 795

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 397422

Ion Ratio Lower Upper

43 100

61 24.0 22.4 33.6

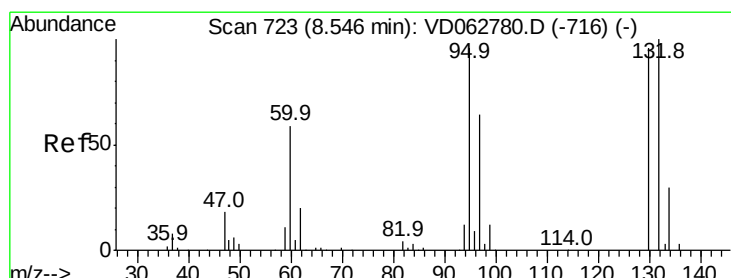
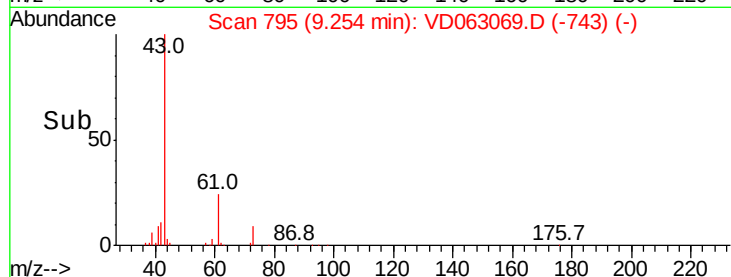
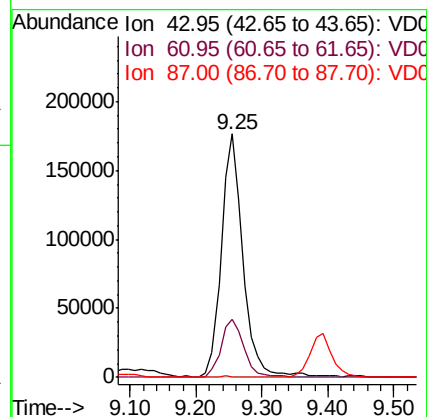
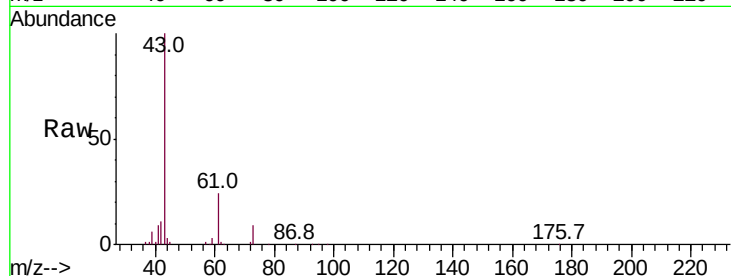
87 0.3 0.3 0.5

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



#44

Trichloroethene

Concen: 51.827 ug/l

RT: 8.55 min Scan# 724

Delta R.T. 0.01 min

Lab File: VD063069.D

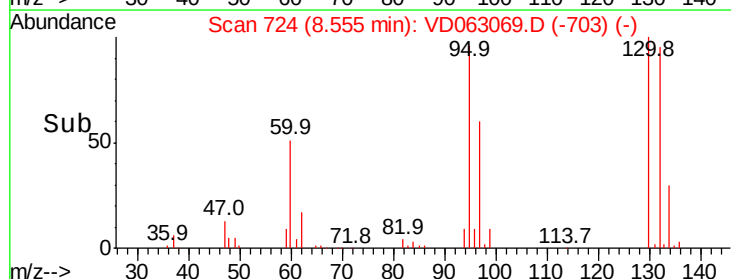
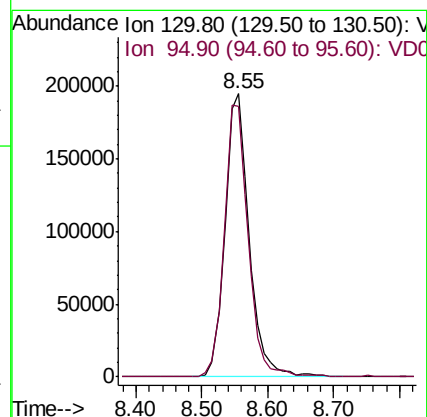
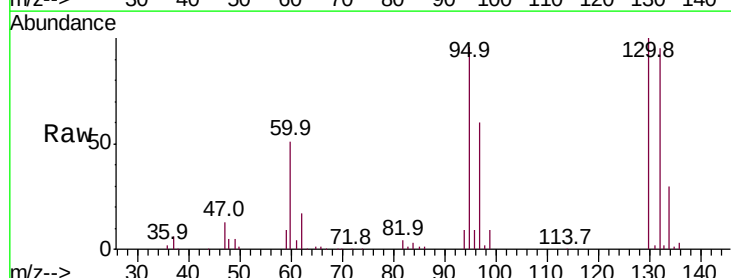
Acq: 12 Jul 2019 14:01

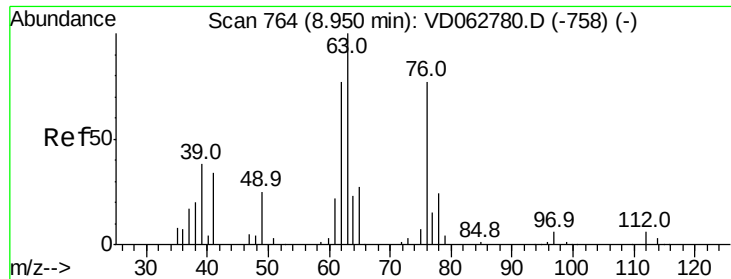
Tgt Ion:130 Resp: 495869

Ion Ratio Lower Upper

130 100

95 95.6 0.0 201.6





#45

1,2-Dichloropropane

Concen: 53.996 ug/l

RT: 8.95 min Scan# 764

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 327672

Ion Ratio Lower Upper

63 100

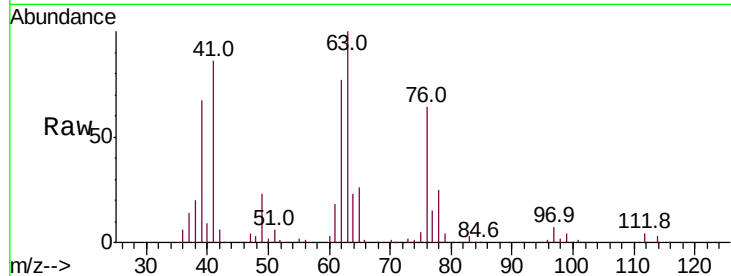
65 25.7 24.2 36.2

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.95

150000

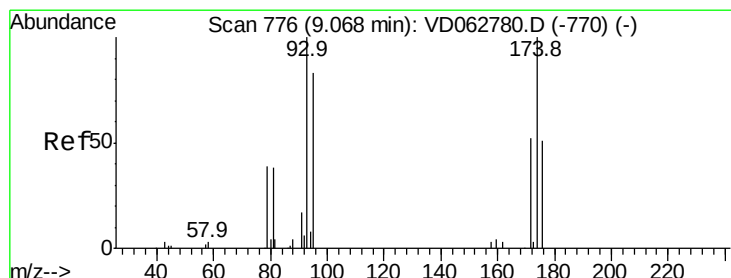
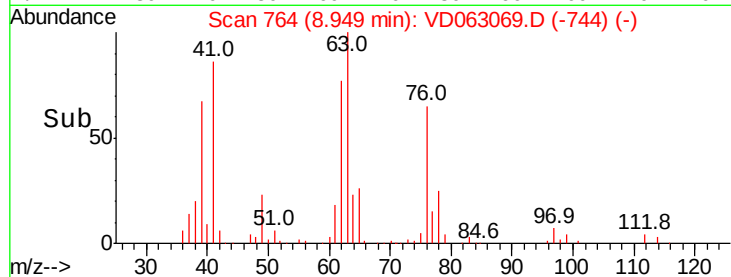
100000

50000

0

8.90 9.00 9.10

Time-->



#46

Dibromomethane

Concen: 50.380 ug/l

RT: 9.08 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

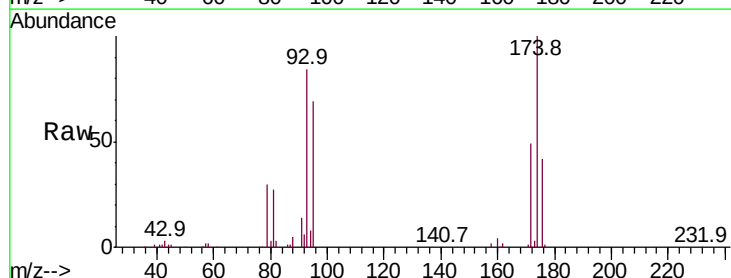
Tgt Ion: 93 Resp: 262627

Ion Ratio Lower Upper

93 100

95 82.2 66.6 100.0

174 118.5 79.7 119.5



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

150000

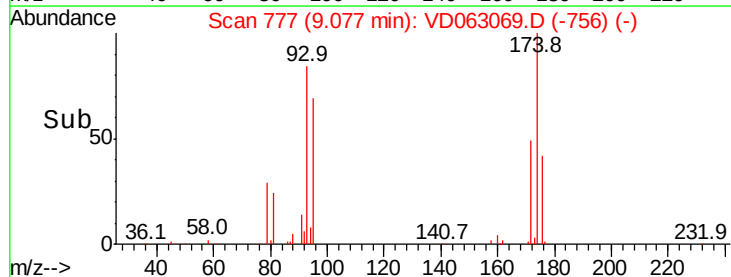
100000

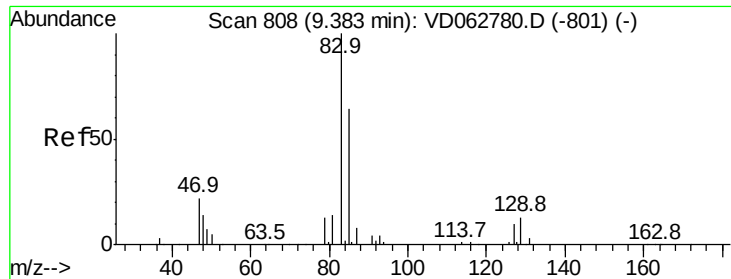
50000

0

9.00 9.10 9.20

Time-->





#47

Bromodichloromethane

Concen: 54.485 ug/l

RT: 9.39 min Scan# 809

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

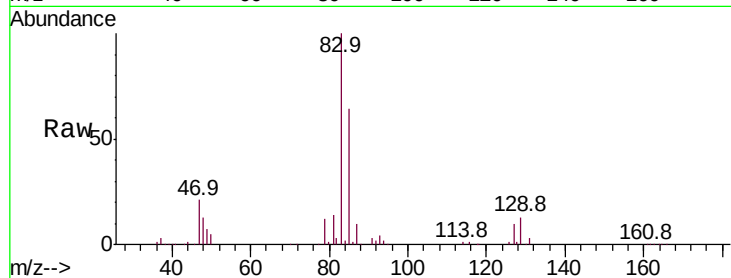
ClientSampleId :

VSTDCCC050

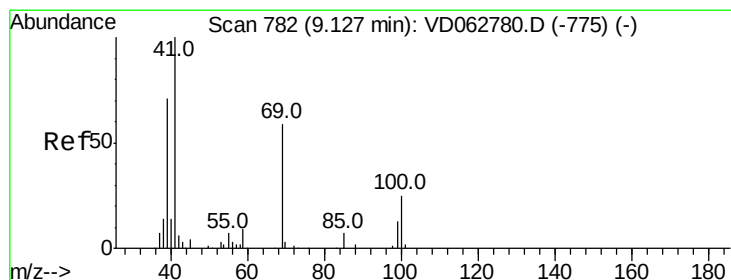
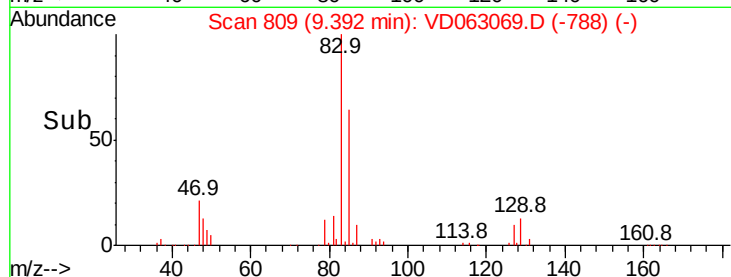
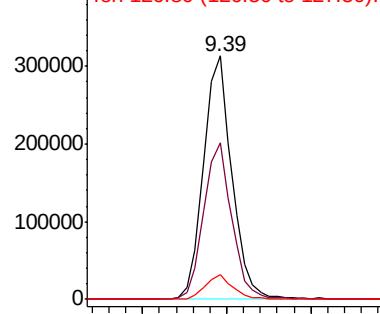
Tot Ion:	83	Resp:	737642
Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.6	77.4
127	10.2	7.8	11.6

Manual Integrations
APPROVED

MMDadoda
7/22/2019 5:31:11 PM



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 50.842 ug/l

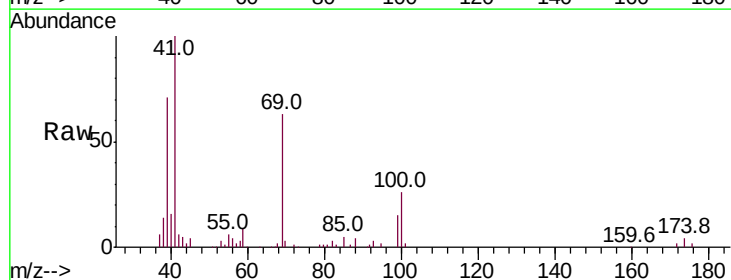
RT: 9.14 min Scan# 783

Delta R.T. 0.01 min

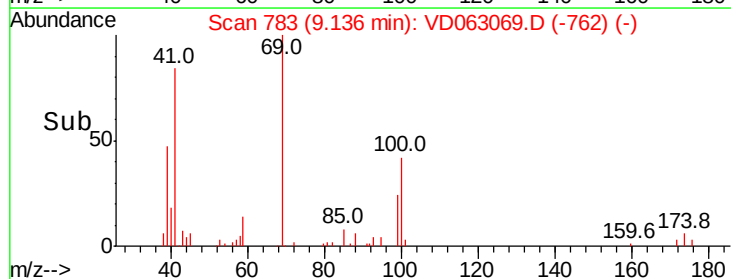
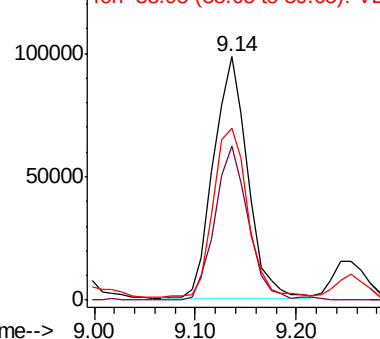
Lab File: VD063069.D

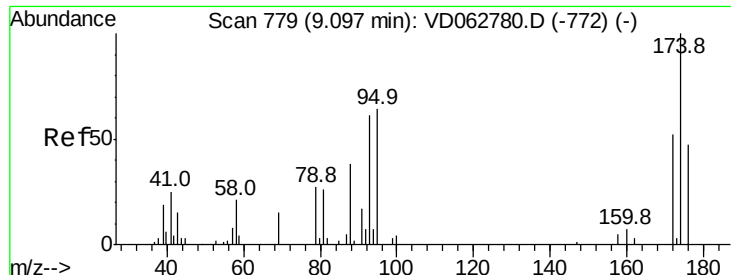
Acq: 12 Jul 2019 14:01

Tgt Ion:	41	Resp:	230295
Ion	Ratio	Lower	Upper
41	100		
69	63.1	47.2	70.8
39	70.6	57.4	86.2



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





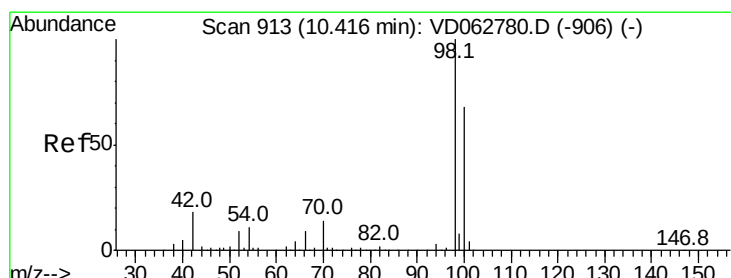
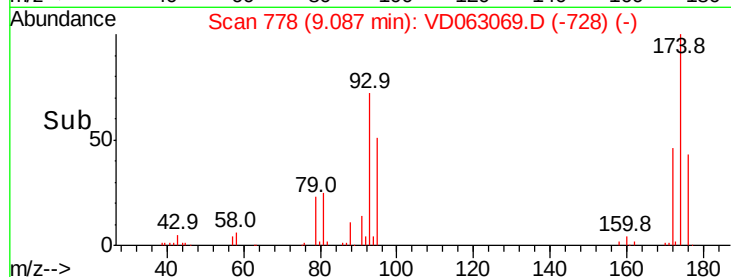
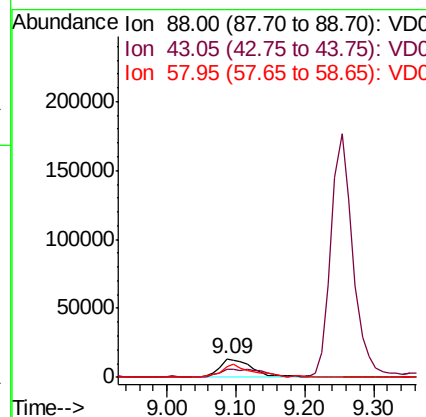
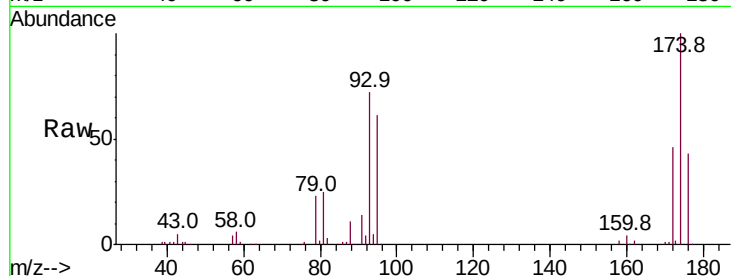
#49
1,4-Dioxane
Concen: 1220.787 ug/l
RT: 9.09 min Scan# 778
Delta R.T. -0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	46.0	32.1	48.1
58	53.9	44.1	66.1

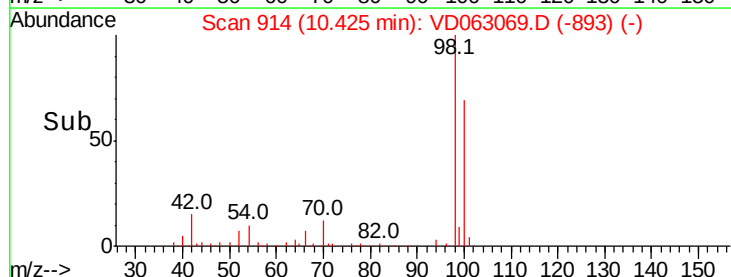
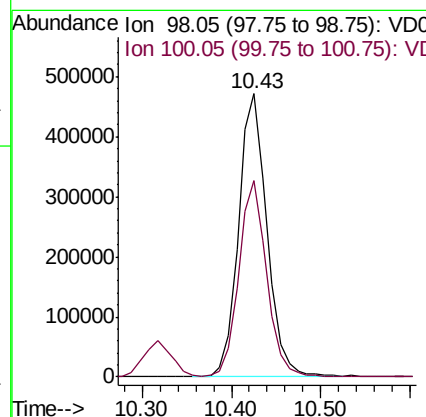
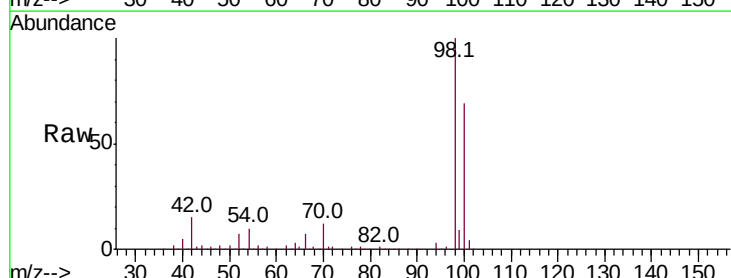
Manual Integrations
APPROVED

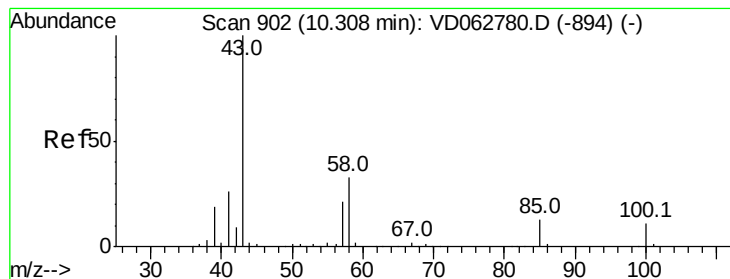
MMDadoda
7/22/2019 5:31:11 PM



#50
Toluene-d8
Concen: 44.285 ug/l
RT: 10.43 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.5	54.7	82.1





#51

4-Methyl-2-Pentanone

Concen: 279.342 ug/l

RT: 10.32 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1262395

Ion Ratio Lower Upper

43 100

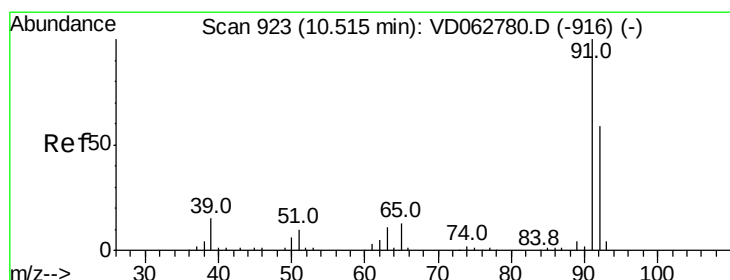
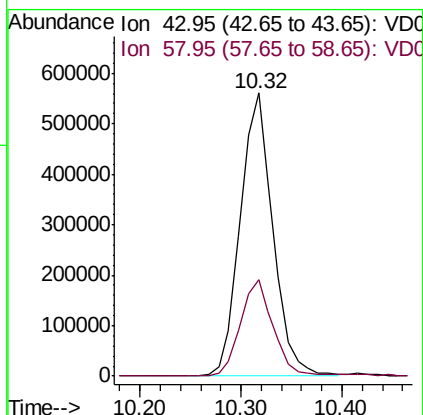
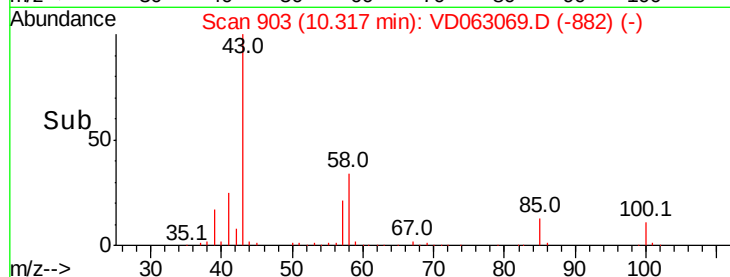
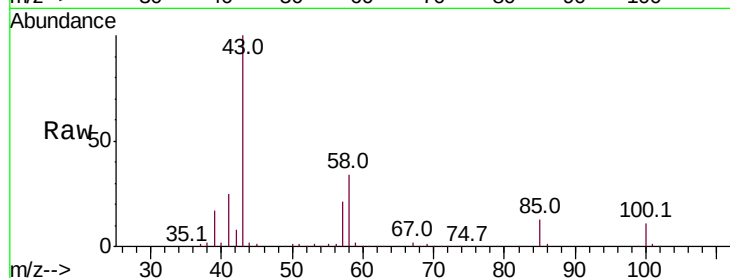
58 34.2 26.6 40.0

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



#52

Toluene

Concen: 52.533 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD063069.D

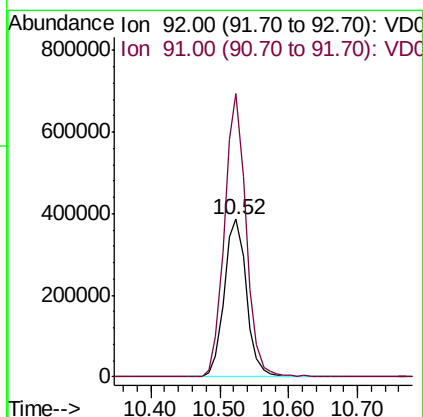
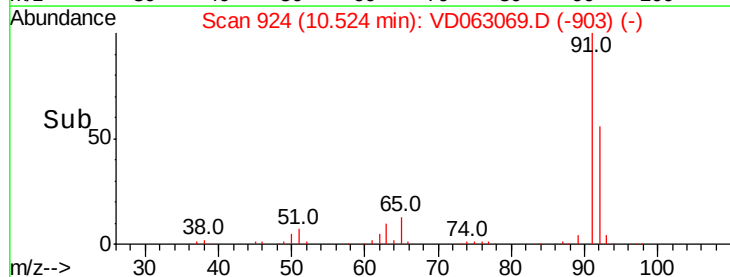
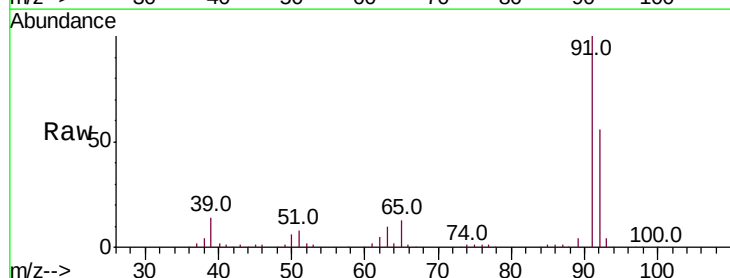
Acq: 12 Jul 2019 14:01

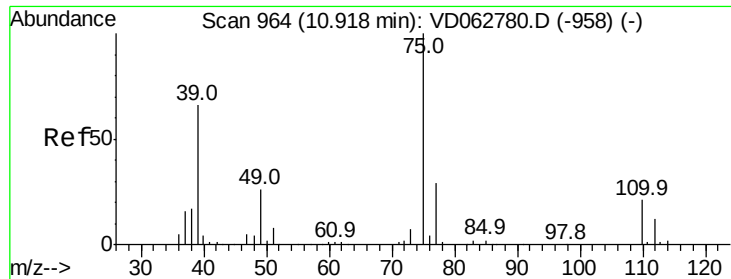
Tgt Ion: 92 Resp: 861813

Ion Ratio Lower Upper

92 100

91 179.6 136.3 204.5





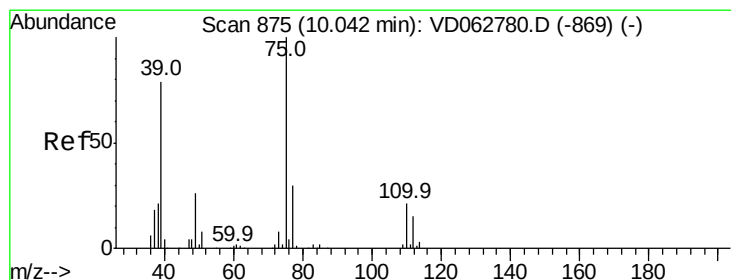
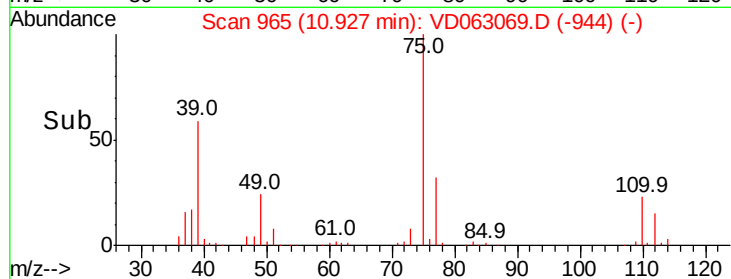
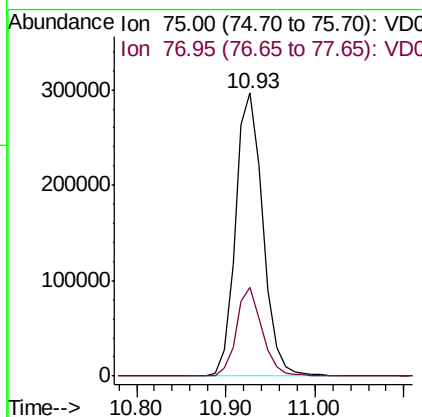
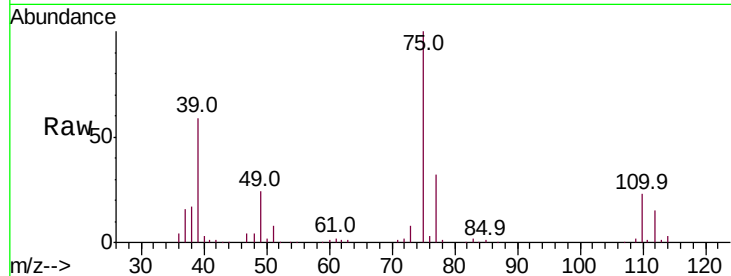
#53
 t-1,3-Dichloropropene
 Concen: 57.209 ug/l
 RT: 10.93 min Scan# 965
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 633931
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.2 34.8

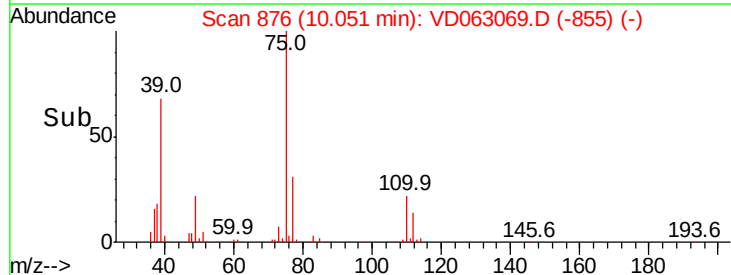
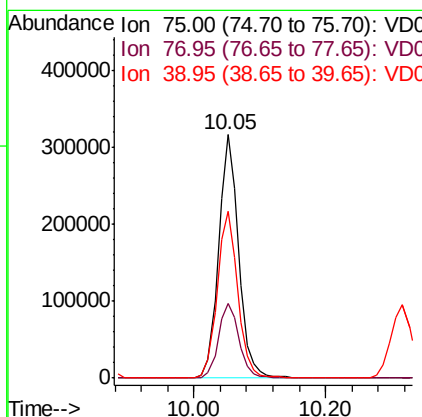
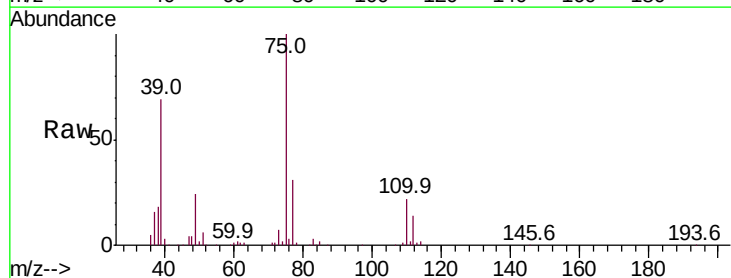
Manual Integrations
 APPROVED

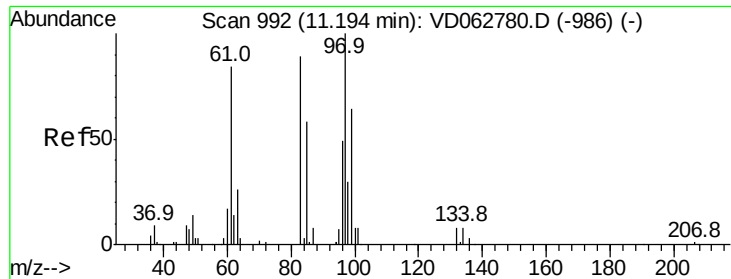
MMDadoda
 7/22/2019 5:31:11 PM



#54
 cis-1,3-Dichloropropene
 Concen: 55.448 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Tgt Ion: 75 Resp: 667820
 Ion Ratio Lower Upper
 75 100
 77 30.9 24.2 36.2
 39 68.6 63.5 95.3





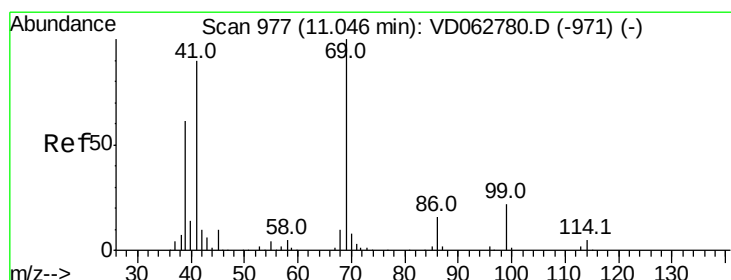
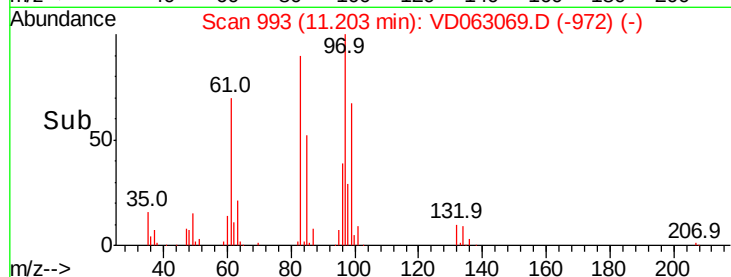
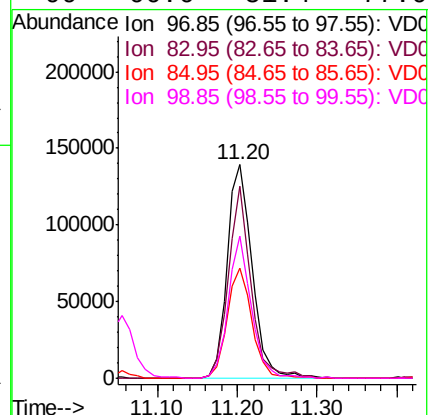
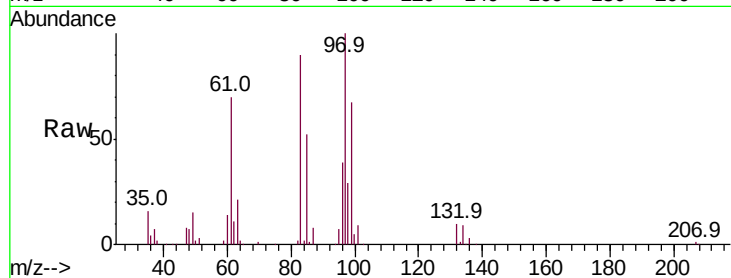
#55
1,1,2-Trichloroethane
Concen: 54.675 ug/l
RT: 11.20 min Scan# 993
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.0	71.0	106.4
85	51.8	46.6	69.8
99	66.6	51.4	77.0

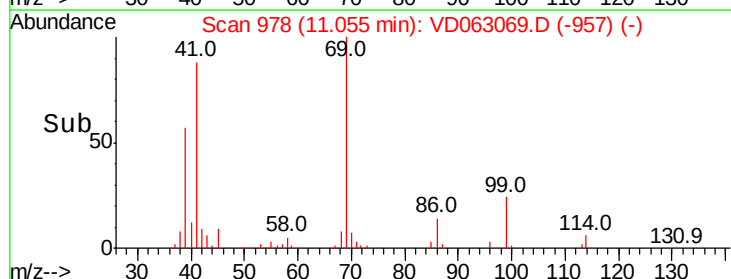
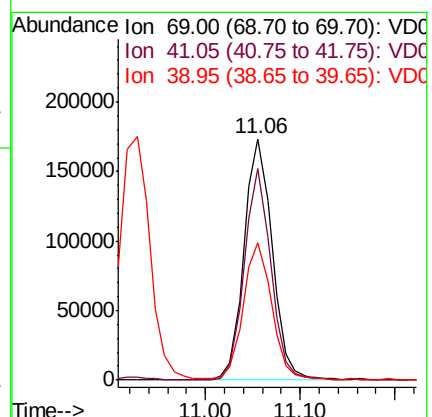
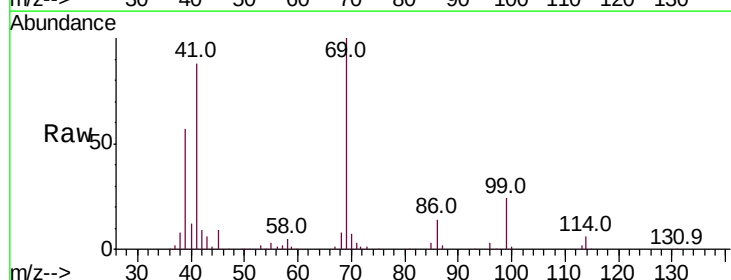
Manual Integrations
APPROVED

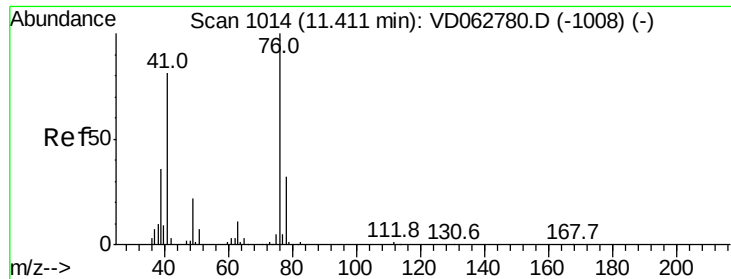
MMDadoda
7/22/2019 5:31:11 PM



#56
Ethyl methacrylate
Concen: 59.369 ug/l
RT: 11.06 min Scan# 978
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
69	100		
41	87.7	72.0	108.0
39	57.0	49.5	74.3





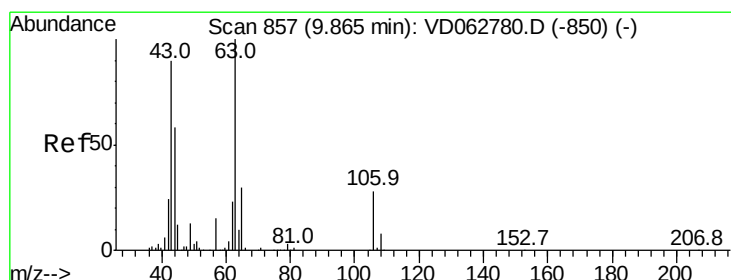
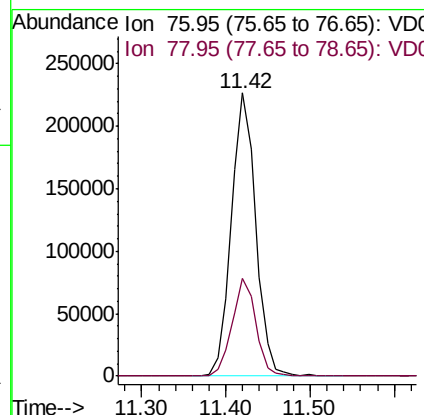
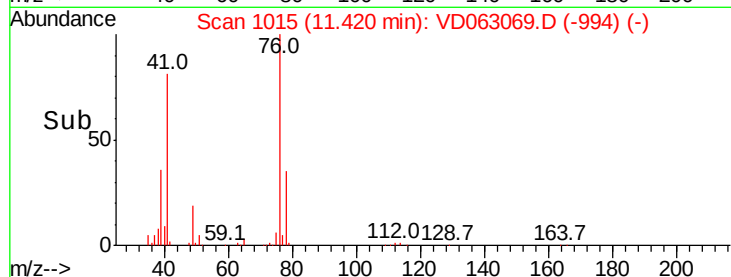
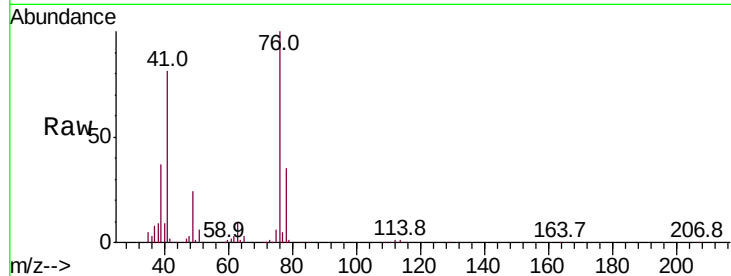
#57
 1,3-Dichloropropane
 Concen: 52.902 ug/l
 RT: 11.42 min Scan# 1015
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 456533
 Ion Ratio Lower Upper
 76 100
 78 34.7 25.4 38.0

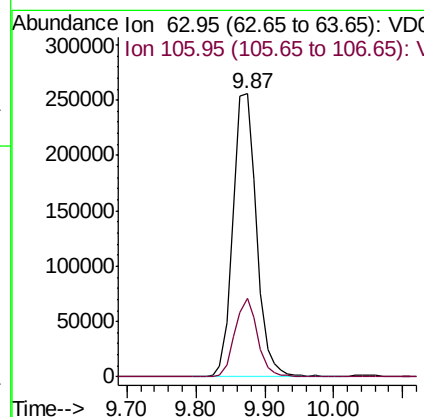
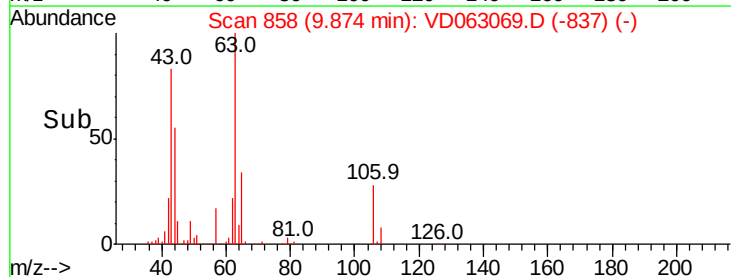
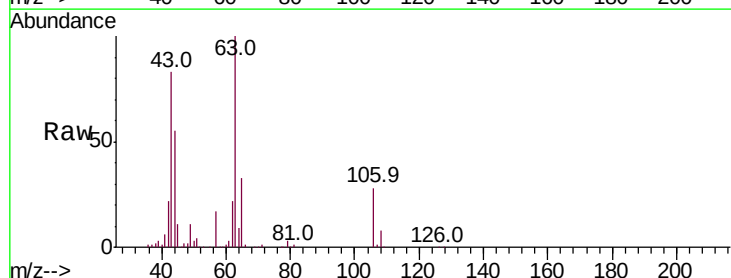
Manual Integrations
 APPROVED

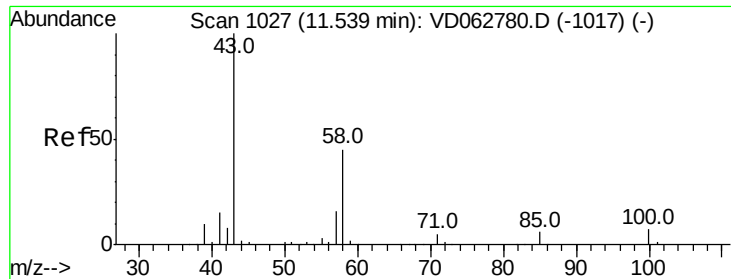
MMDadoda
 7/22/2019 5:31:11 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 196.106 ug/l
 RT: 9.87 min Scan# 858
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Tgt Ion: 63 Resp: 606412
 Ion Ratio Lower Upper
 63 100
 106 27.6 22.1 33.1





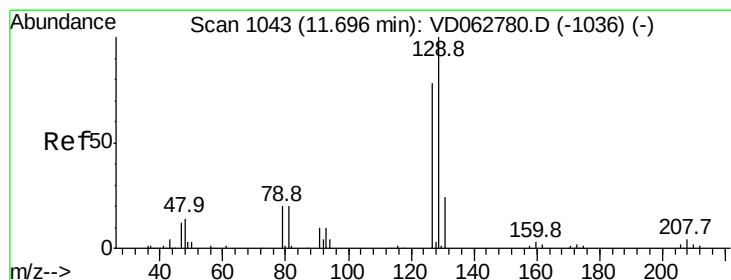
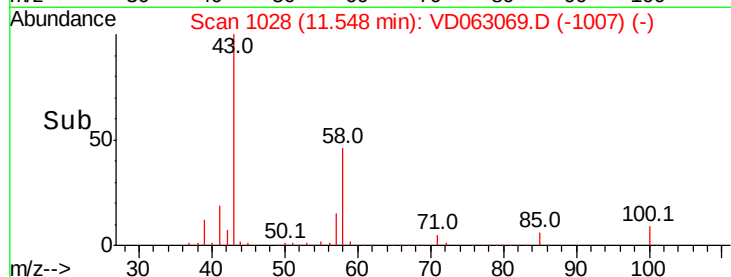
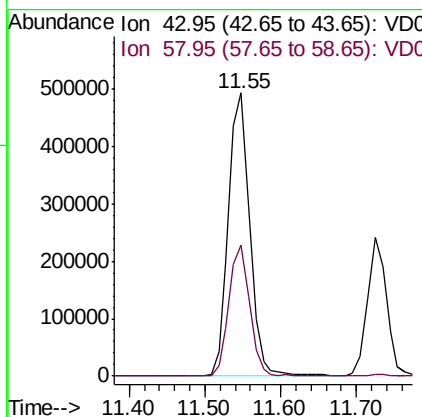
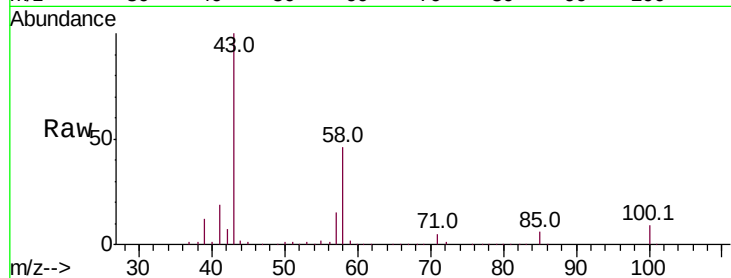
#59
2-Hexanone
Concen: 298.774 ug/l
RT: 11.55 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 961606
Ion Ratio Lower Upper
43 100
58 46.4 22.4 67.2

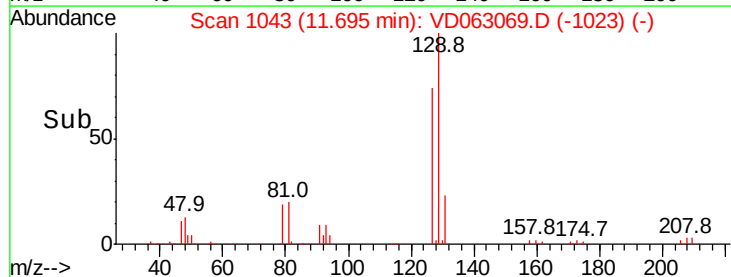
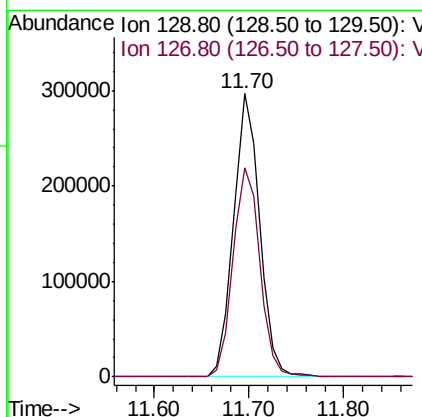
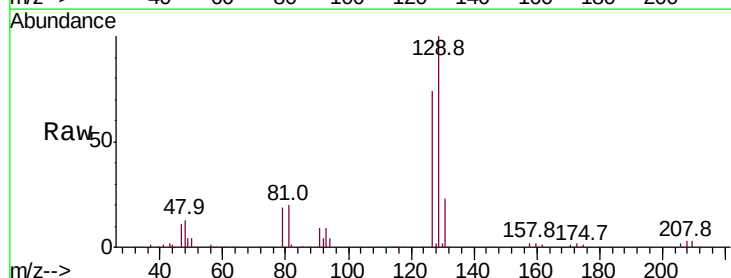
Manual Integrations
APPROVED

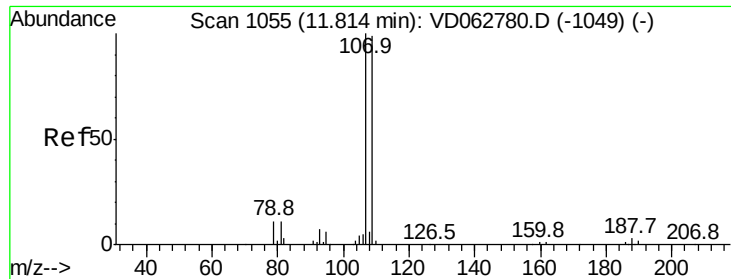
MMDadoda
7/22/2019 5:31:11 PM



#60
Dibromochloromethane
Concen: 54.281 ug/l
RT: 11.70 min Scan# 1043
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion: 129 Resp: 569853
Ion Ratio Lower Upper
129 100
127 74.0 38.9 116.6





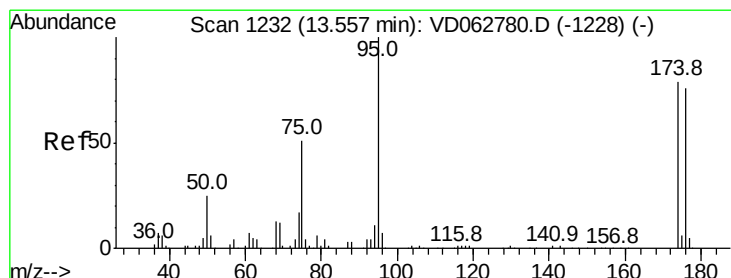
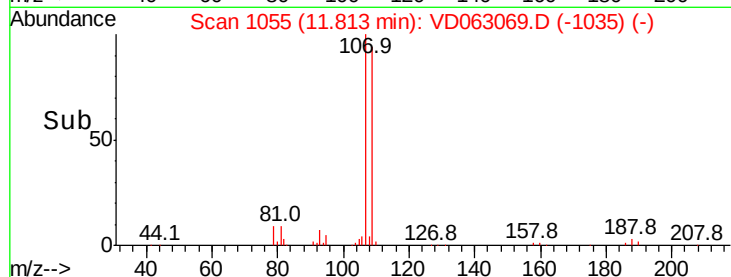
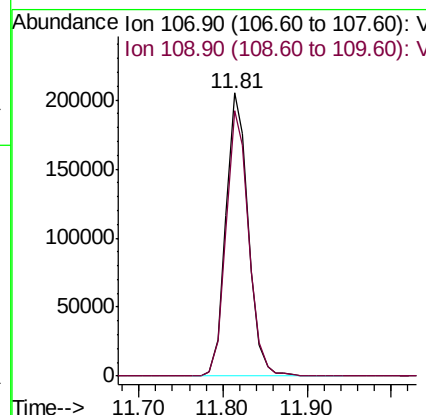
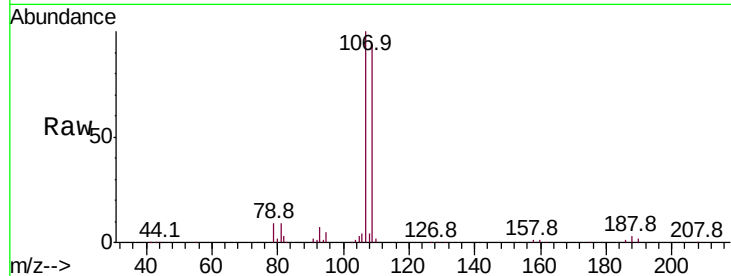
#61
 1,2-Dibromoethane
 Concen: 56.759 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. -0.00 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.8	79.3	118.9

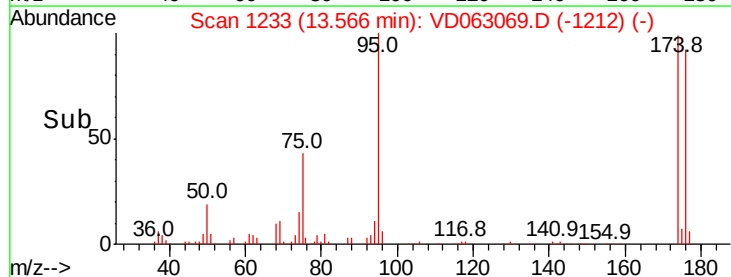
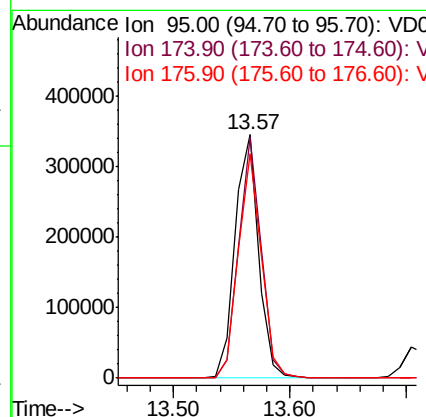
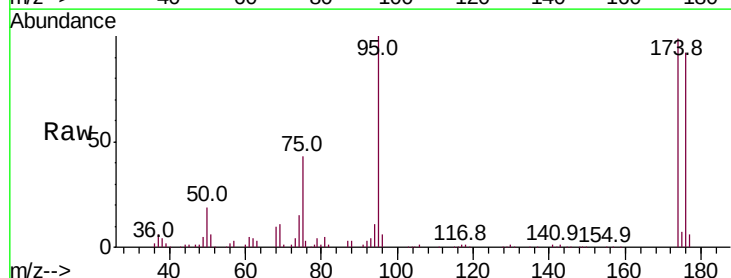
Manual Integrations
 APPROVED

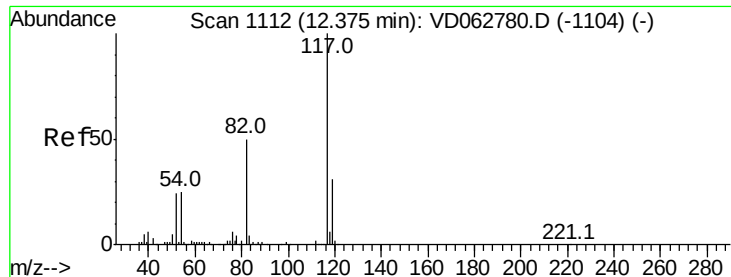
MMDadoda
 7/22/2019 5:31:11 PM



#62
 4-Bromofluorobenzene
 Concen: 45.319 ug/l
 RT: 13.57 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	98.9	0.0	158.0
176	92.2	0.0	151.6





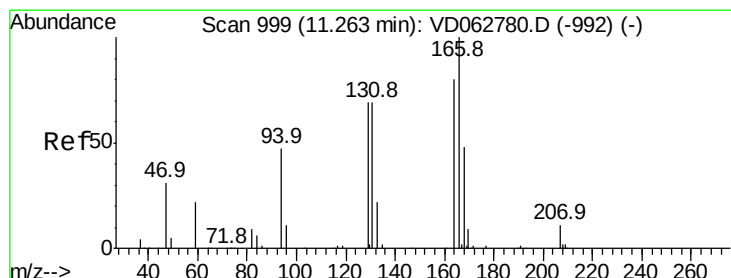
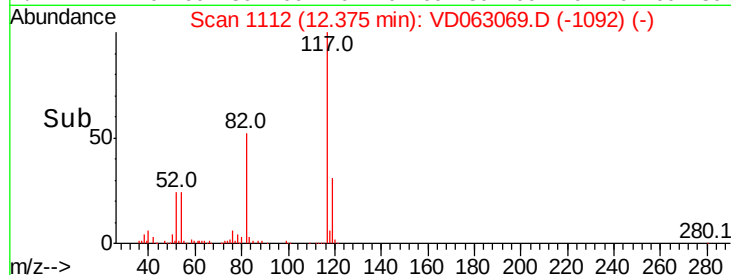
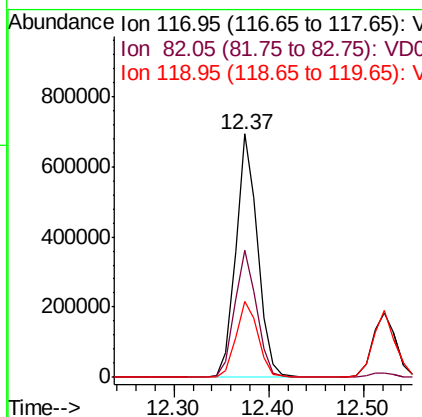
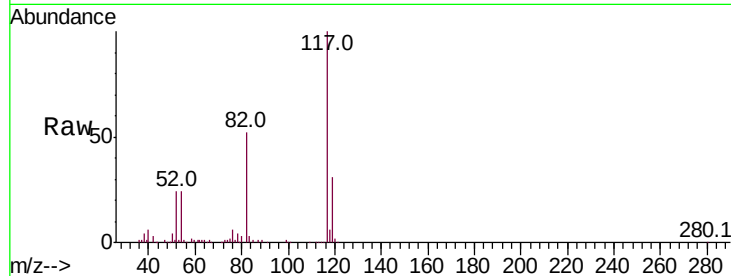
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.0	40.4	60.6
119	31.2	25.2	37.8

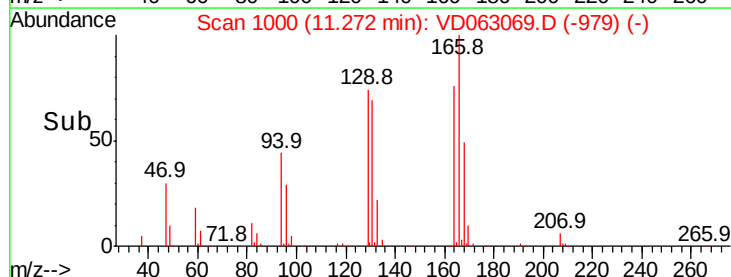
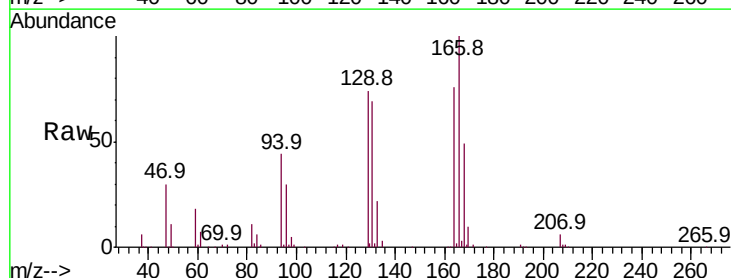
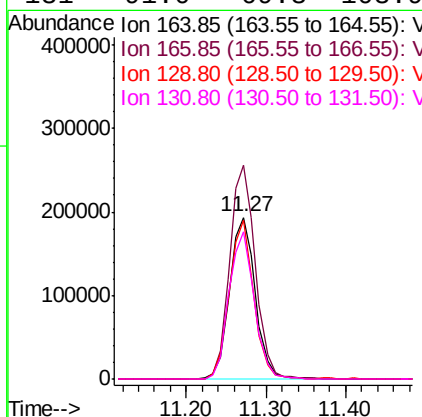
Manual Integrations
APPROVED

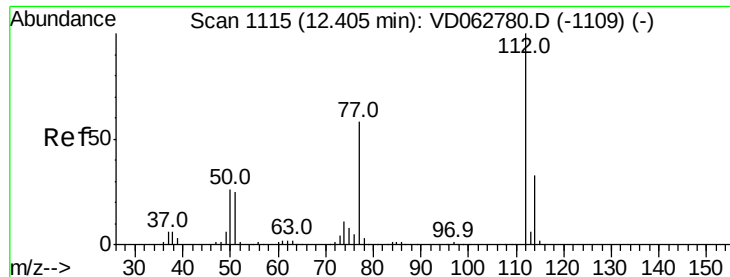
MMDadoda
7/22/2019 5:31:11 PM



#64
Tetrachloroethene
Concen: 47.945 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.4	100.6	150.8
129	98.3	69.4	104.0
131	91.0	69.3	103.9





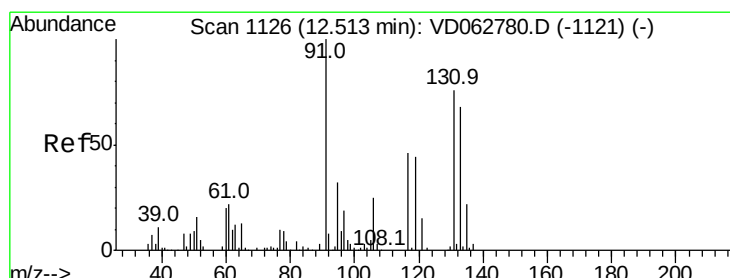
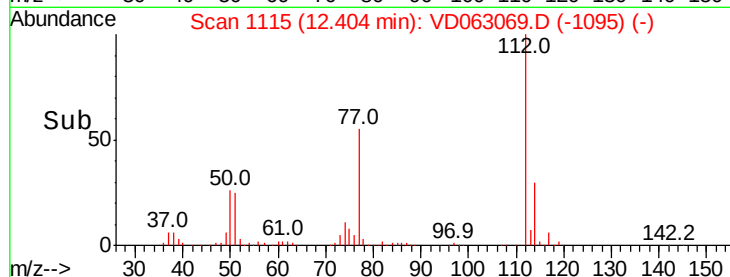
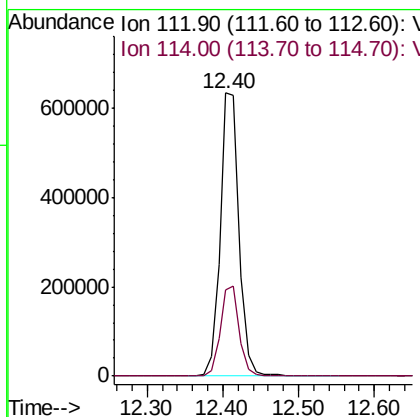
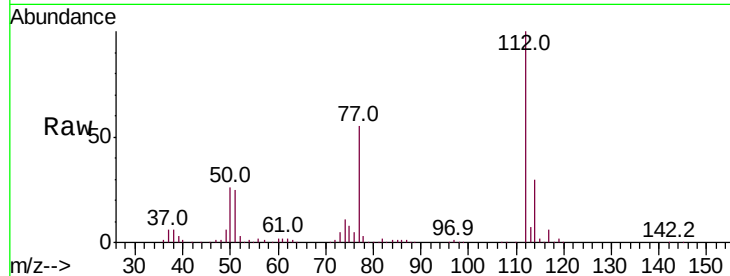
#65
Chlorobenzene
Concen: 53.639 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1098176
Ion Ratio Lower Upper
112 100
114 30.4 26.3 39.5

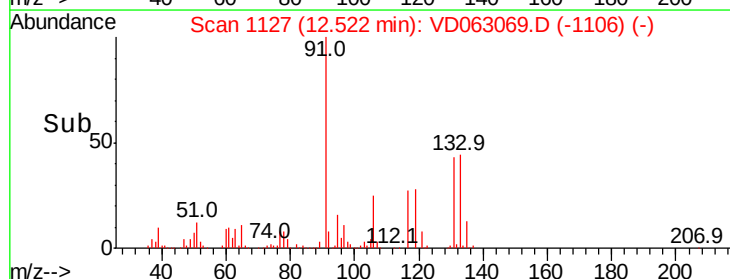
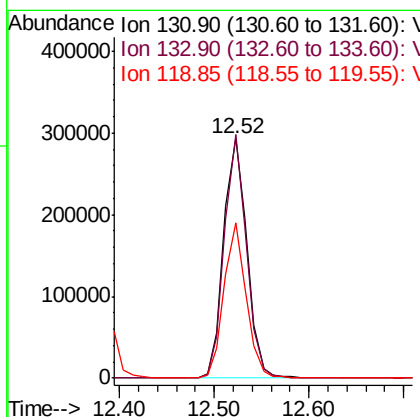
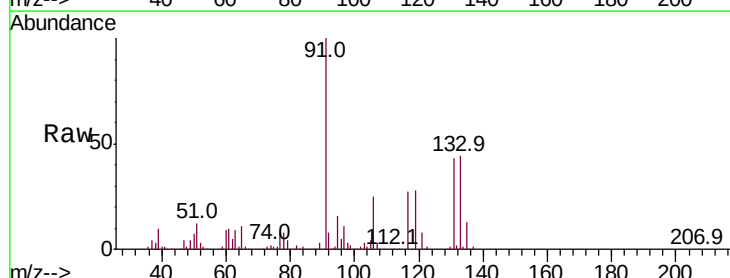
Manual Integrations
APPROVED

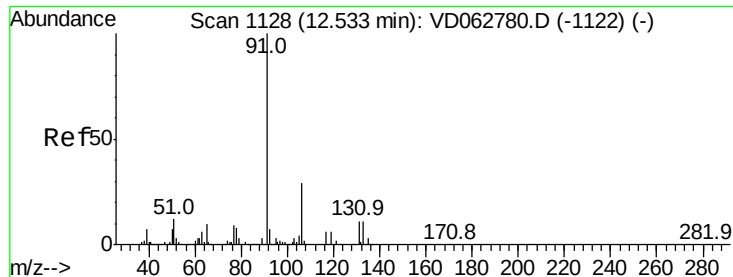
MMDadoda
7/22/2019 5:31:11 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 52.166 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion:131 Resp: 499461
Ion Ratio Lower Upper
131 100
133 101.6 44.5 133.3
119 64.6 28.6 85.9





#67

Ethyl Benzene

Concen: 48.185 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1771154

Ion Ratio Lower Upper

91 100

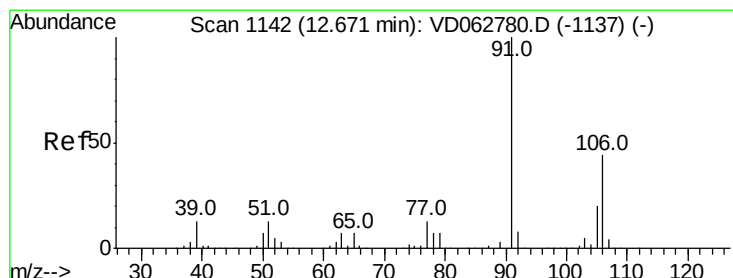
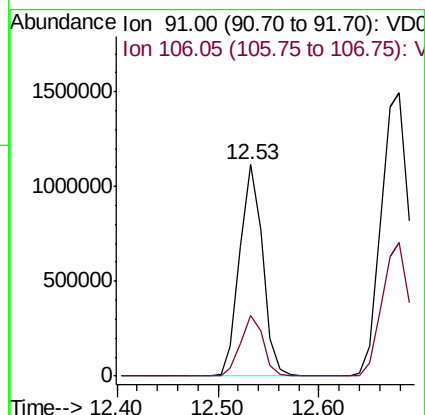
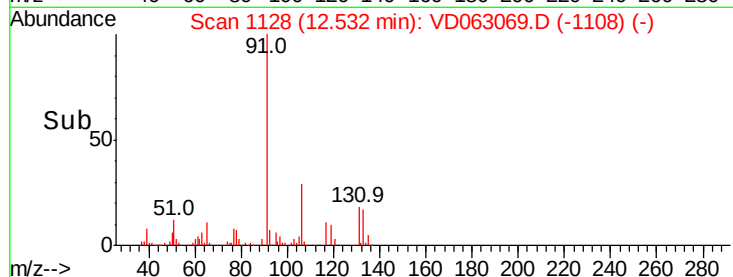
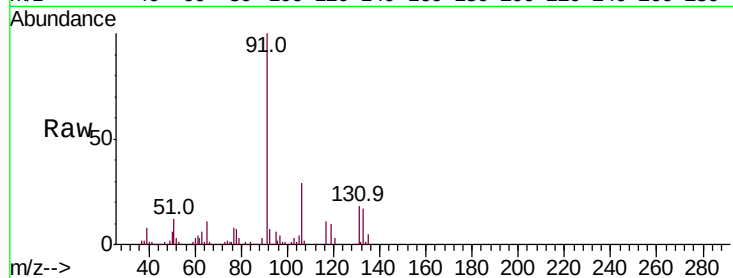
106 28.6 23.1 34.7

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



#68

m/p-Xylenes

Concen: 104.819 ug/l

RT: 12.68 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VD063069.D

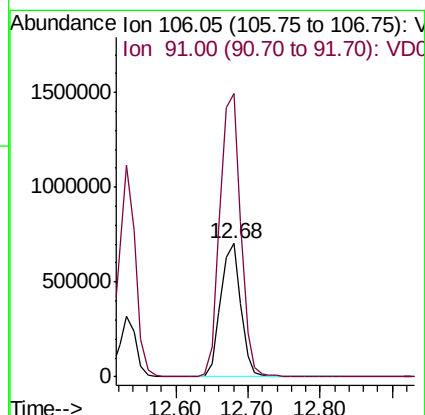
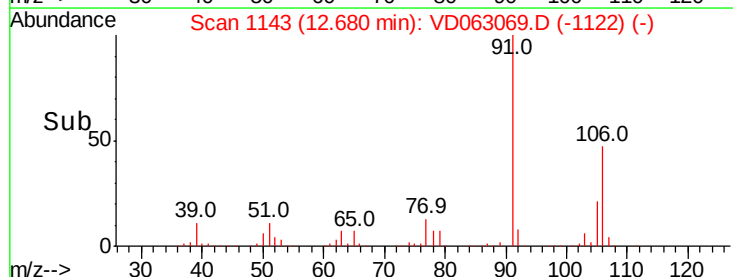
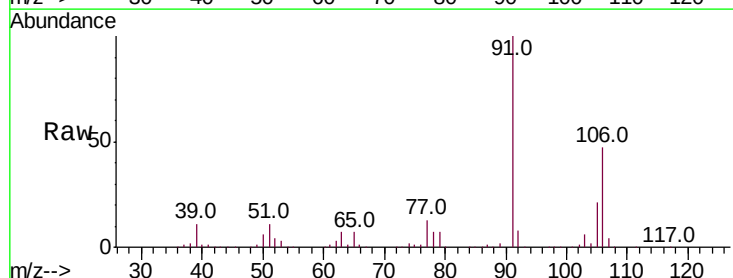
Acq: 12 Jul 2019 14:01

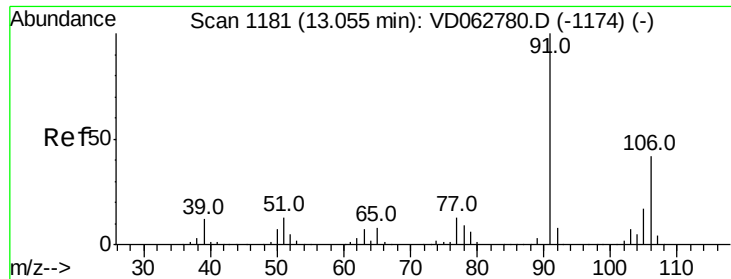
Tgt Ion:106 Resp: 1341928

Ion Ratio Lower Upper

106 100

91 212.5 183.0 274.6





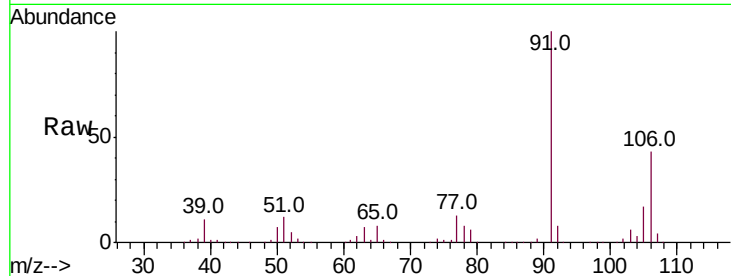
#69
o-Xylene
Concen: 53.390 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

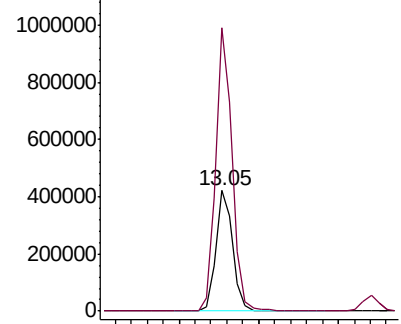
Tot Ion:106 Resp: 624843
Ion Ratio Lower Upper
106 100
91 235.2 117.9 353.6

Manual Integrations
APPROVED

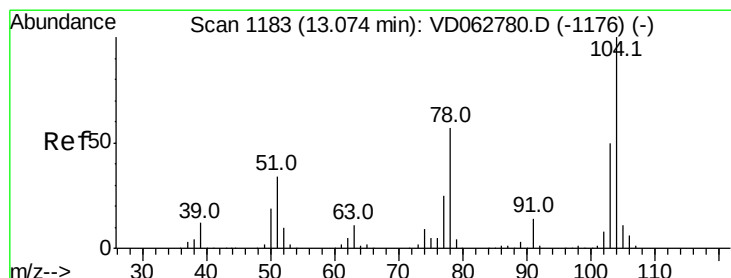
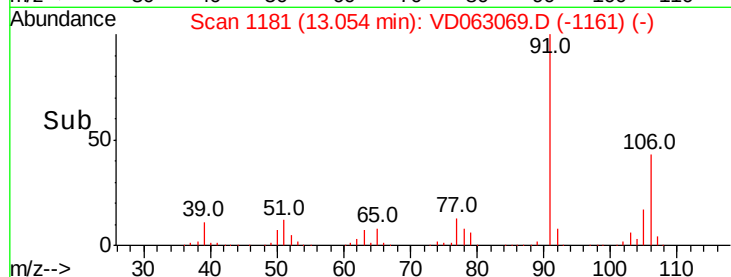
MMDadoda
7/22/2019 5:31:11 PM



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

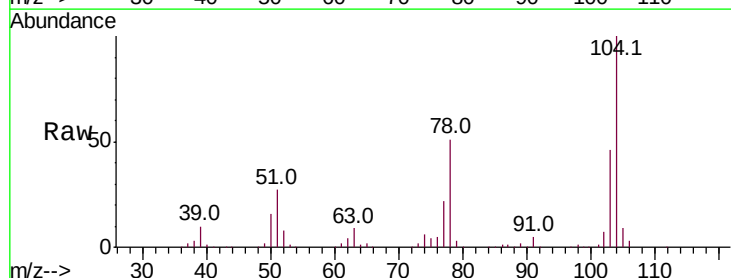


Time-->

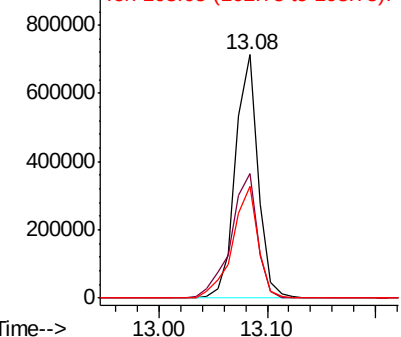


#70
Styrene
Concen: 50.416 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

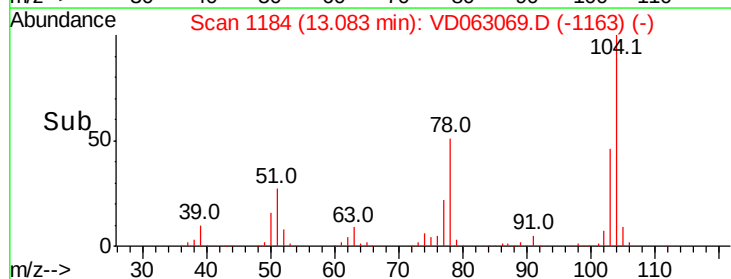
Tgt Ion:104 Resp: 1036361
Ion Ratio Lower Upper
104 100
78 50.9 45.4 68.2
103 45.9 39.7 59.5

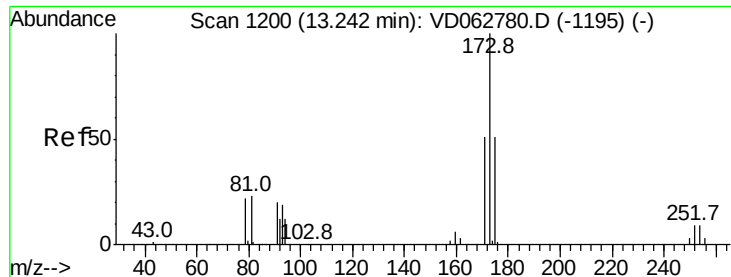


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V



Time-->





#71

Bromoform

Concen: 56.424 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 370137

Ion Ratio Lower Upper

173 100

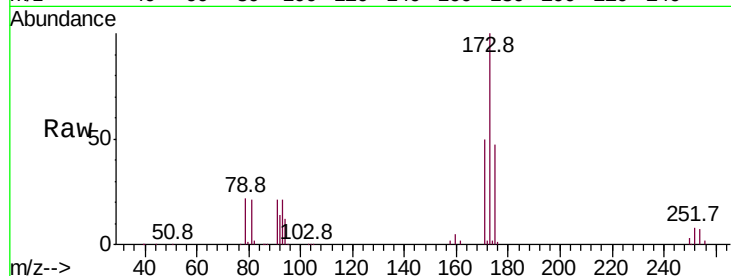
175 46.8 25.3 75.9

254 6.9 7.1 10.7#

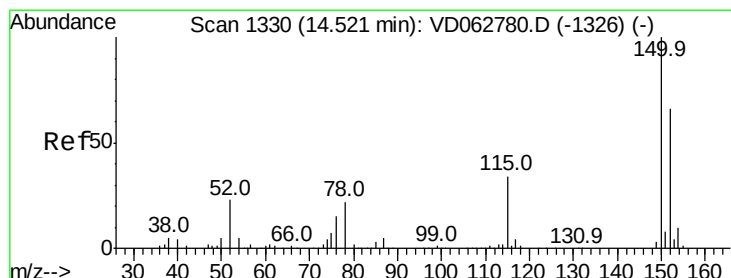
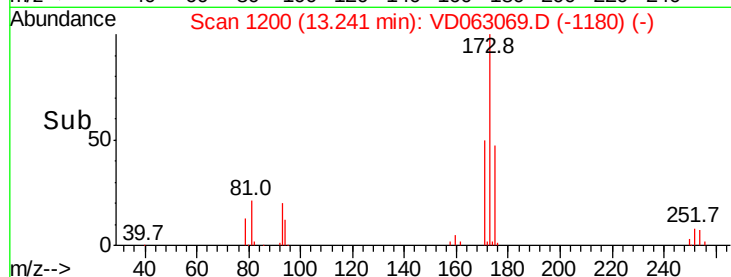
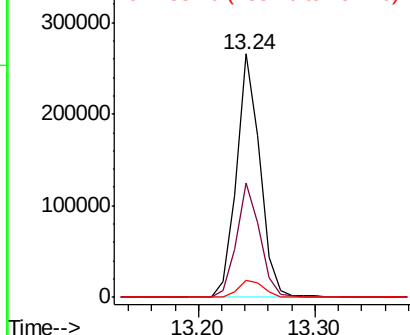
Manual Integrations
APPROVED

MMDadoda

7/22/2019 5:31:11 PM



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: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

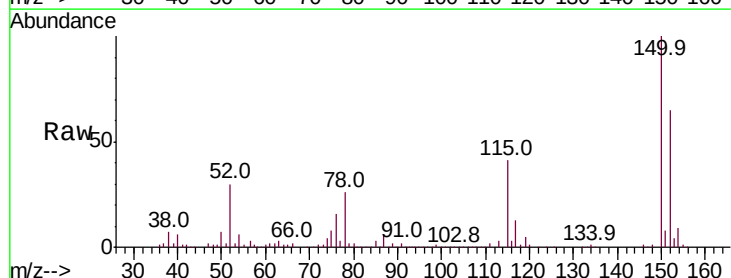
Tgt Ion:152 Resp: 571366

Ion Ratio Lower Upper

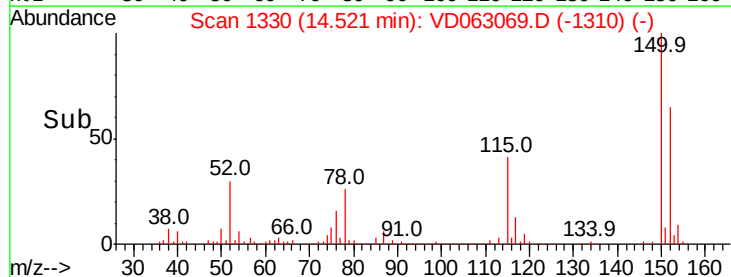
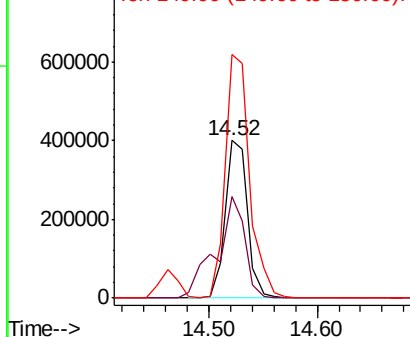
152 100

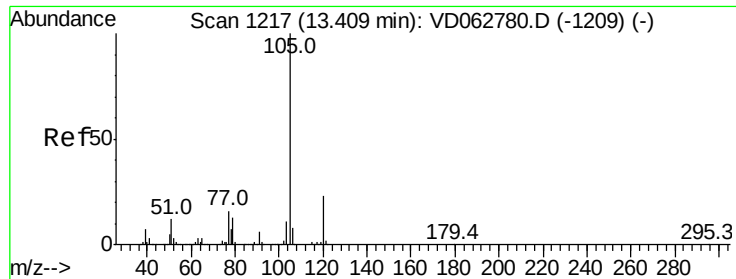
115 64.0 29.2 87.6

150 154.3 0.0 305.8



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: 50.380 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1845653

Ion Ratio Lower Upper

105 100

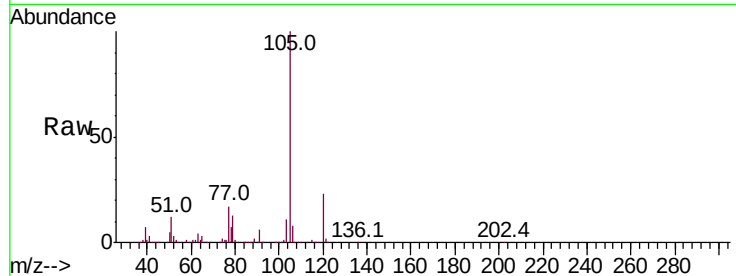
120 22.7 11.6 34.7

Manual Integrations

APPROVED

MMDadoda

7/22/2019 5:31:11 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

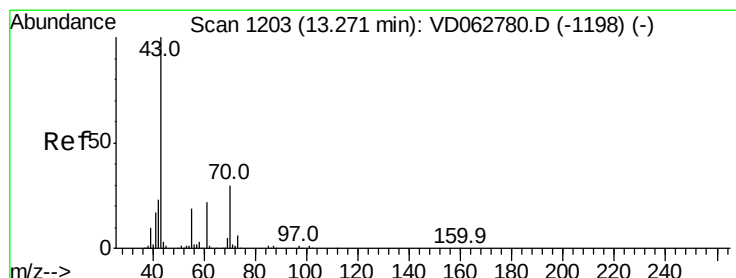
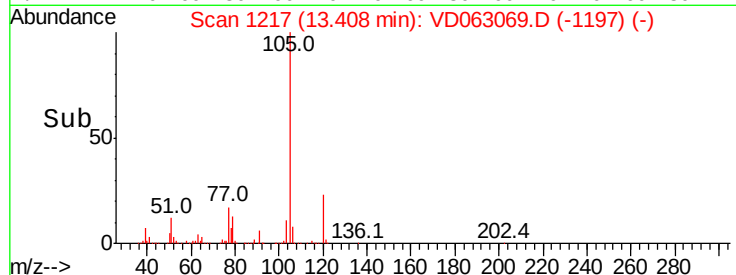
1500000

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 54.357 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Tgt Ion: 43 Resp: 483595

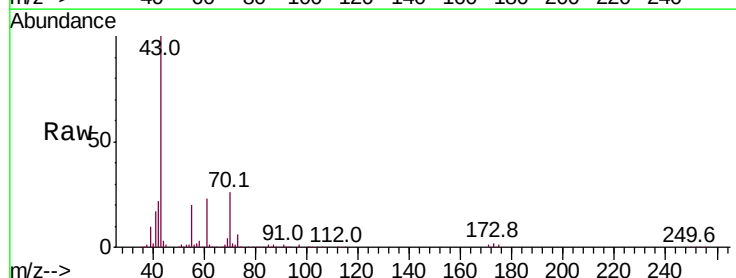
Ion Ratio Lower Upper

43 100

70 26.4 24.4 36.6

55 20.1 15.2 22.8

61 22.7 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

500000

400000

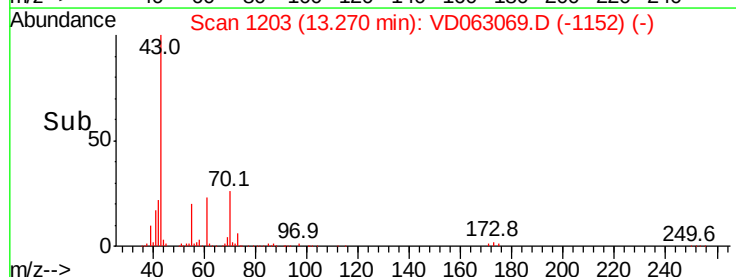
300000

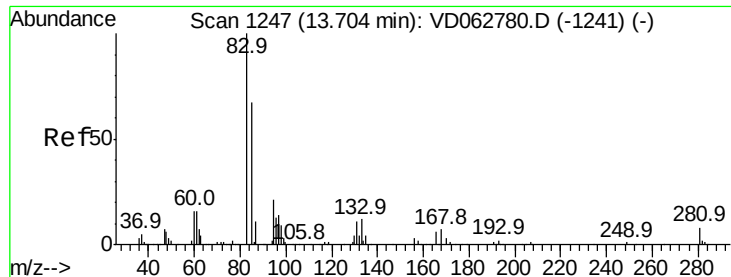
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 56.762 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

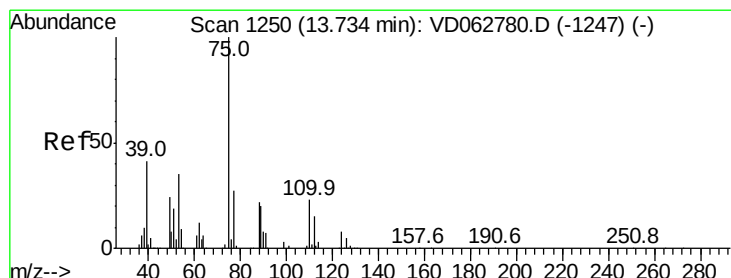
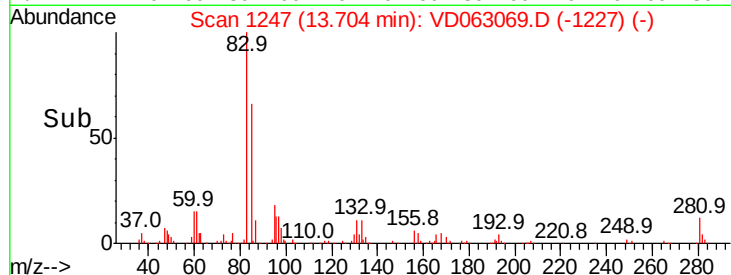
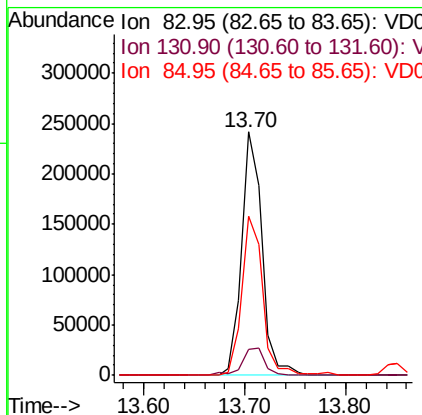
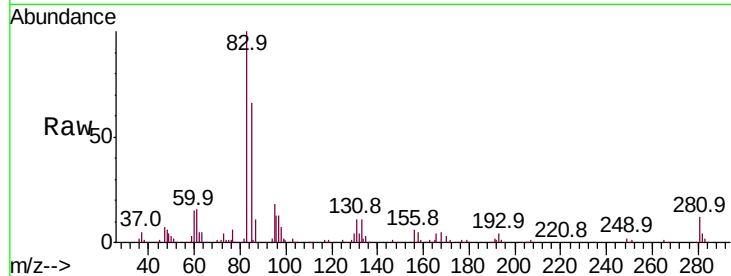
ClientSampleId :

VSTDCCC050

Tot Ion	83	Resp	338816
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.3	16.1
85	65.5	33.7	101.1

Manual Integrations
APPROVED

MMDadoda
7/22/2019 5:31:11 PM



#76

1,2,3-Trichloropropane

Concen: 56.494 ug/l

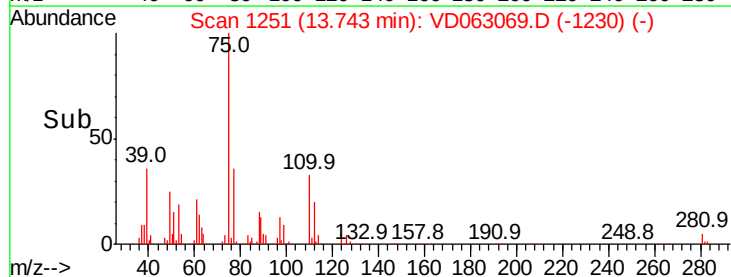
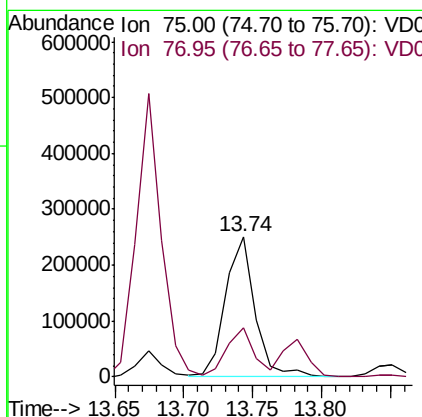
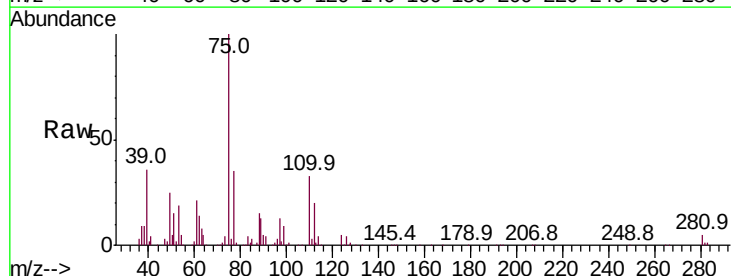
RT: 13.74 min Scan# 1251

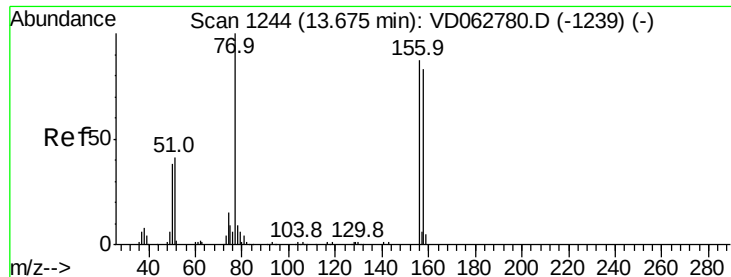
Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Tgt Ion	75	Resp	372634
Ion	Ratio	Lower	Upper
75	100		
77	35.3	15.0	45.1





#77

Bromobenzene

Concen: 54.703 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

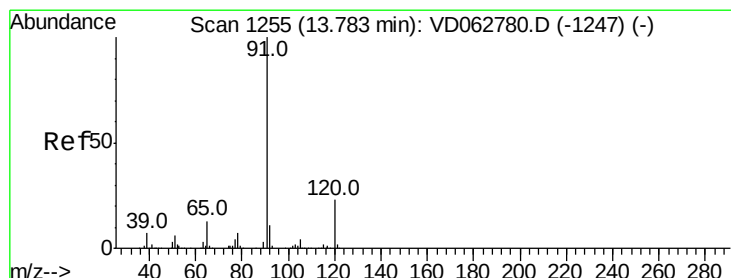
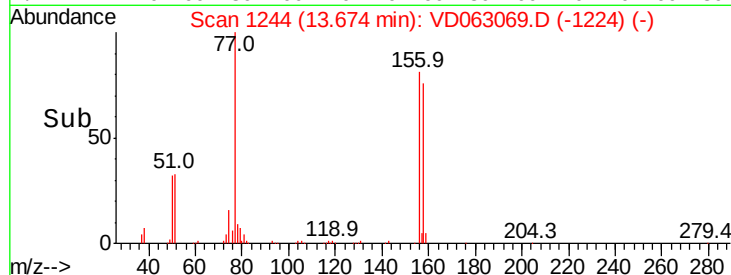
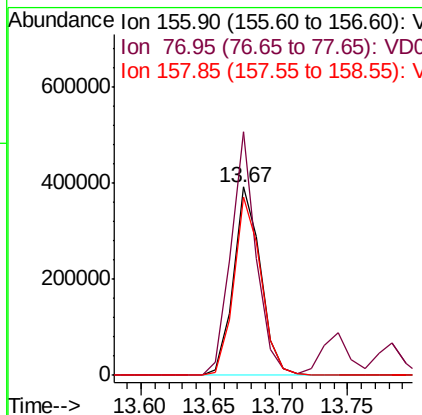
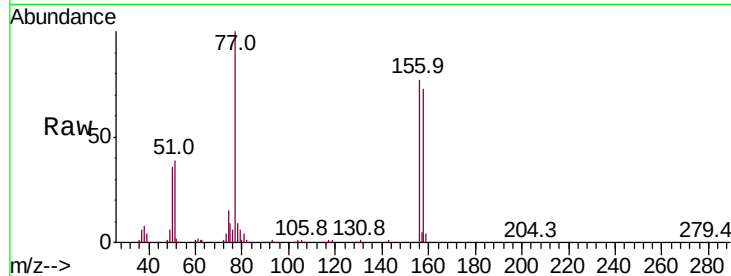
VSTDCCC050

Tot Ion:156 Resp: 539030

Ion	Ratio	Lower	Upper
156	100		
77	129.2	57.7	173.1
158	94.3	47.7	143.1

Manual Integrations
APPROVED

MMDadoda
7/22/2019 5:31:11 PM



#78

n-propylbenzene

Concen: 51.076 ug/l

RT: 13.78 min Scan# 1255

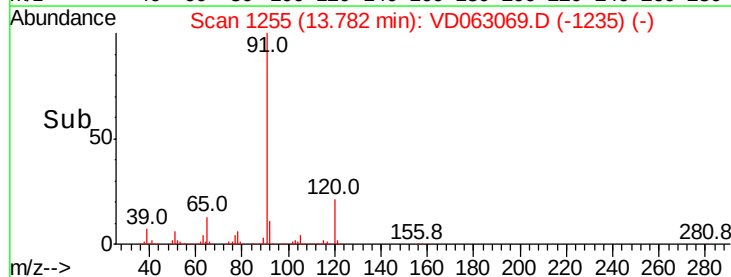
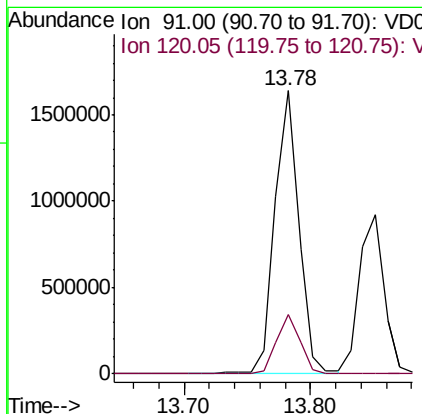
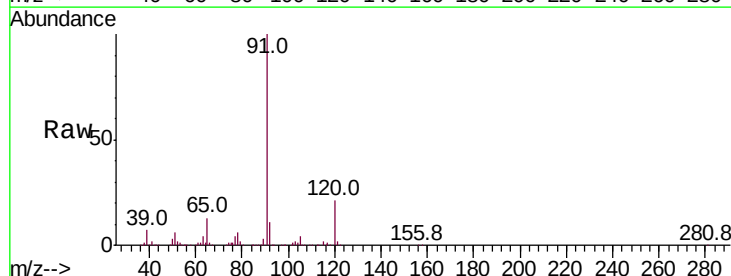
Delta R.T. -0.00 min

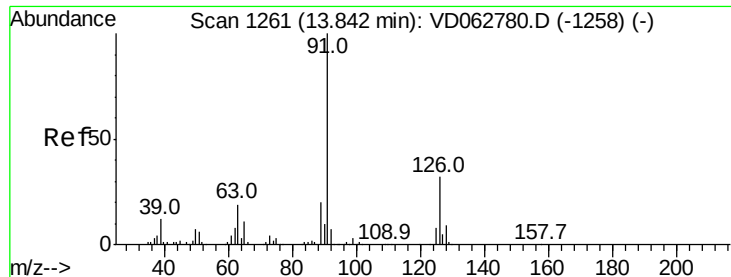
Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Tgt Ion: 91 Resp: 2177850

Ion	Ratio	Lower	Upper
91	100		
120	21.1	11.3	33.8





#79

2-Chlorotoluene

Concen: 52.068 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1268789

Ion Ratio Lower Upper

91 100

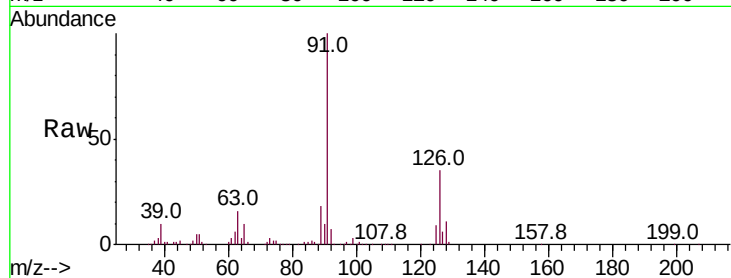
126 35.2 15.7 47.1

Manual Integrations

APPROVED

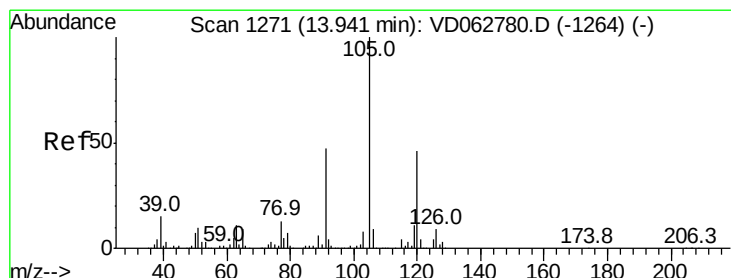
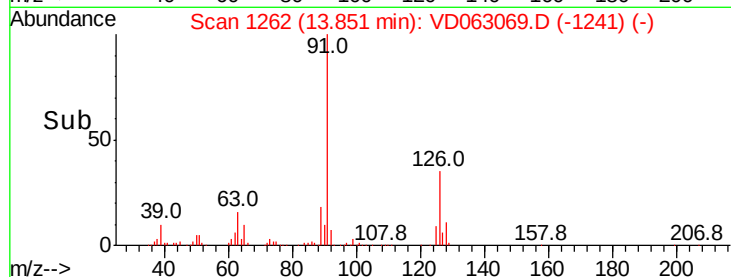
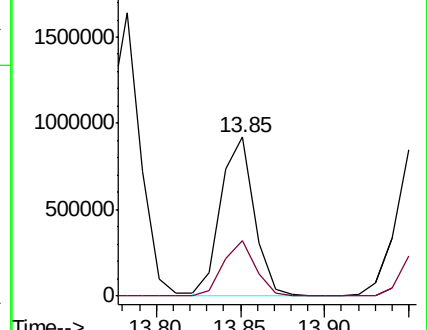
MMDadoda

7/22/2019 5:31:11 PM



Abundance Ion 91.00 (90.70 to 91.70): VD062780.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD062780.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 49.946 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD063069.D

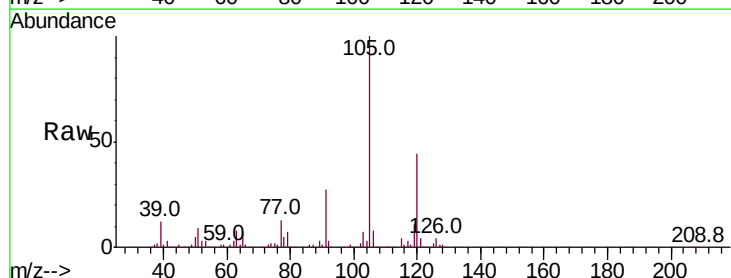
Acq: 12 Jul 2019 14:01

Tgt Ion:105 Resp: 1536926

Ion Ratio Lower Upper

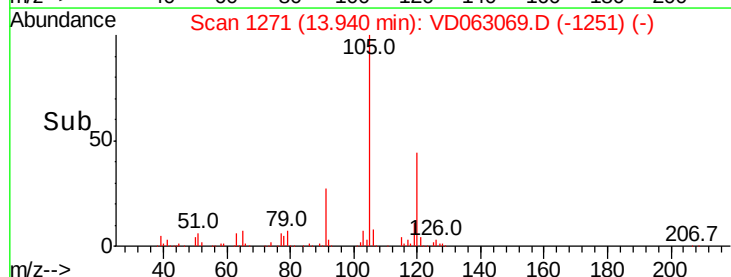
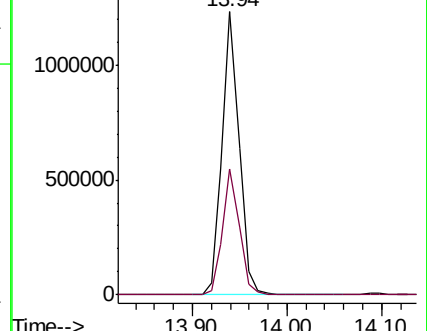
105 100

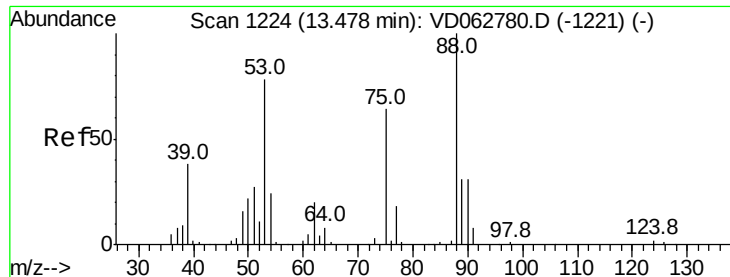
120 44.5 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): VD062780.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD062780.D (-1264) (-)





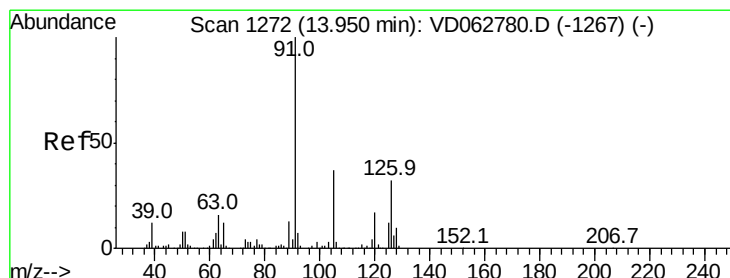
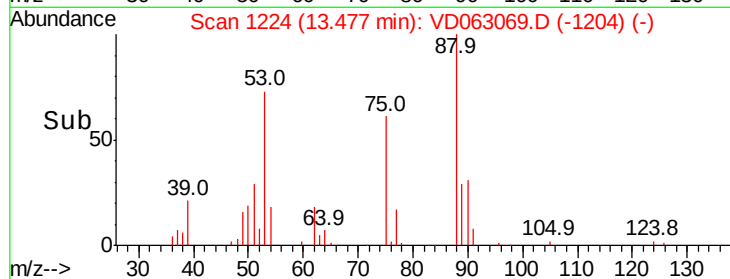
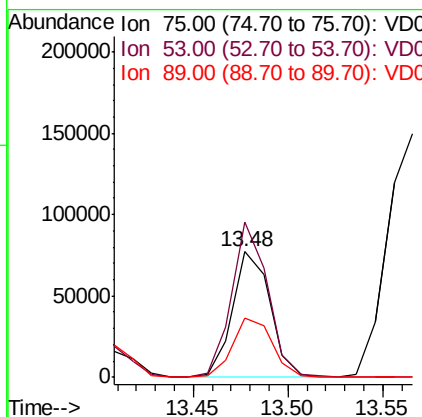
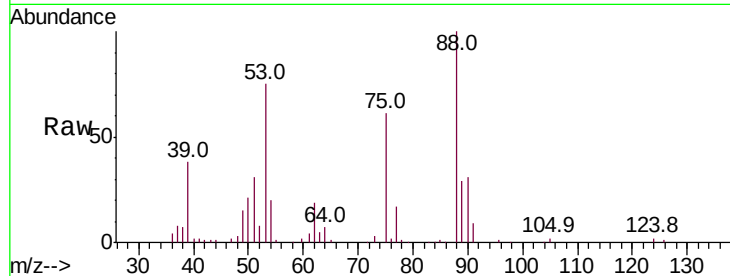
#81
trans-1,4-Dichloro-2-butene
Concen: 61.833 ug/l
RT: 13.48 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	123.8	97.8	146.8
89	47.4	39.4	59.2

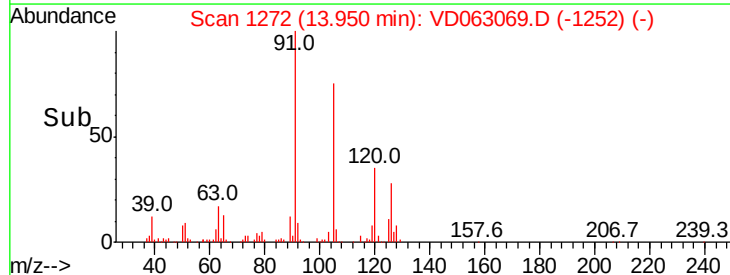
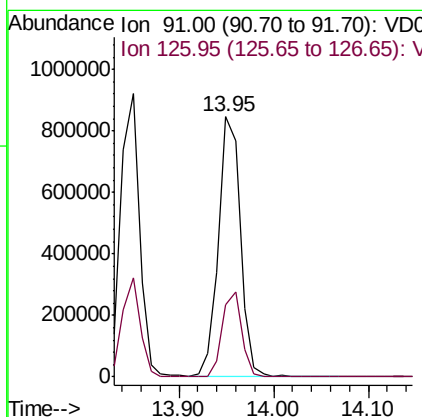
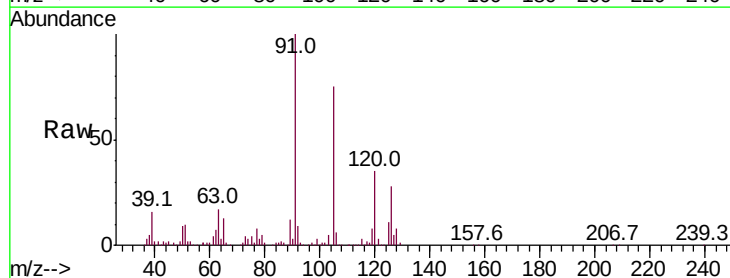
Manual Integrations
APPROVED

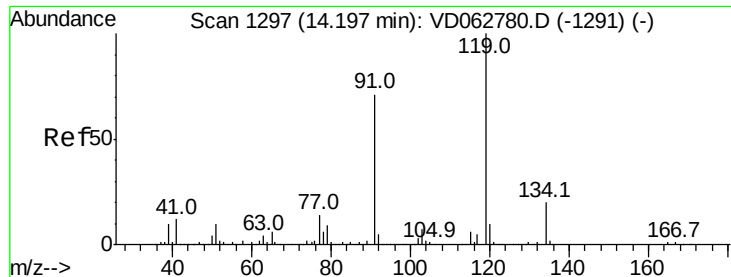
MMDadoda
7/22/2019 5:31:11 PM



#82
4-Chlorotoluene
Concen: 46.313 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.9	16.0	47.9





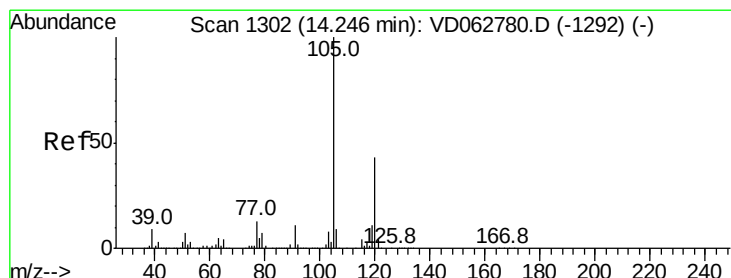
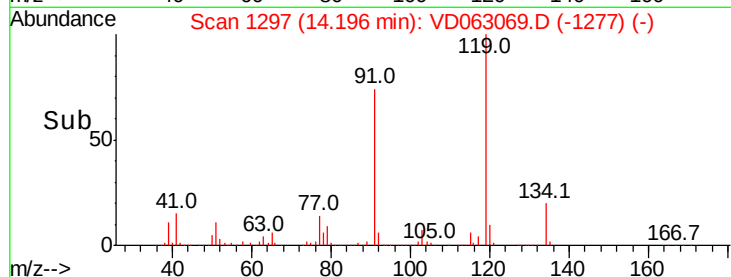
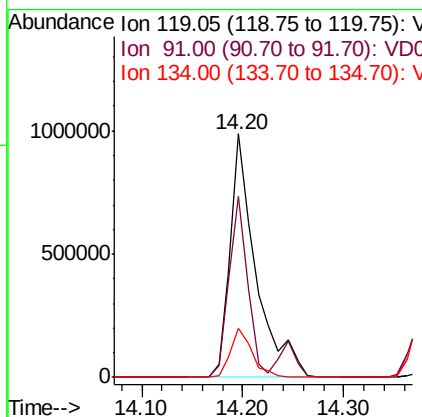
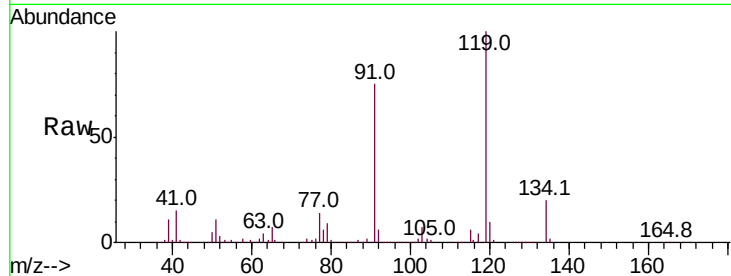
#83
tert-Butylbenzene
Concen: 50.955 ug/l
RT: 14.20 min Scan# 1297
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 1747753
Ion Ratio Lower Upper
119 100
91 74.6 35.5 106.5
134 20.3 10.2 30.6

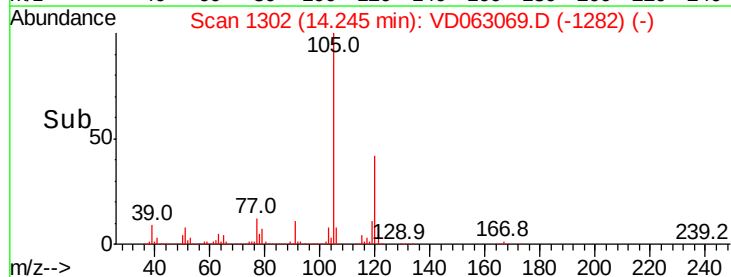
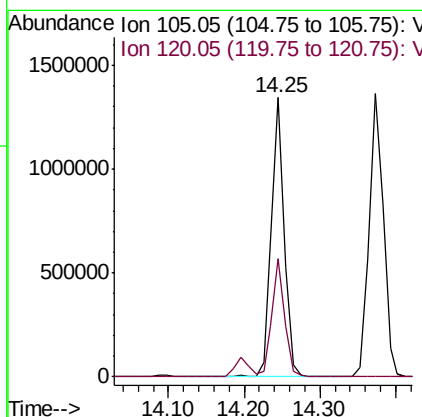
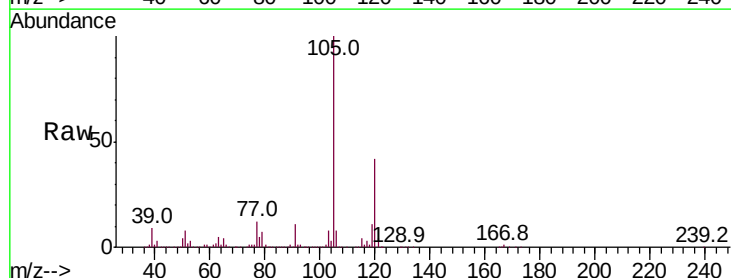
Manual Integrations
APPROVED

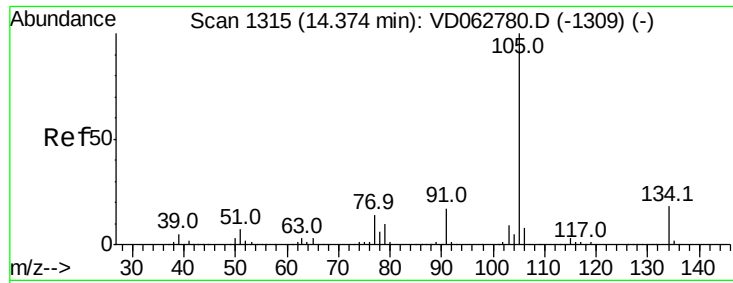
MMDadoda
7/22/2019 5:31:11 PM



#84
1,2,4-Trimethylbenzene
Concen: 50.256 ug/l
RT: 14.25 min Scan# 1302
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion:105 Resp: 1585078
Ion Ratio Lower Upper
105 100
120 42.3 21.3 63.9





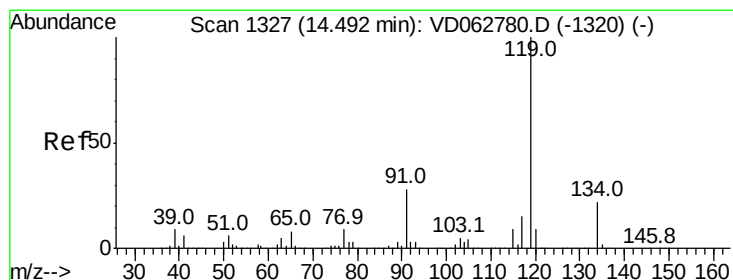
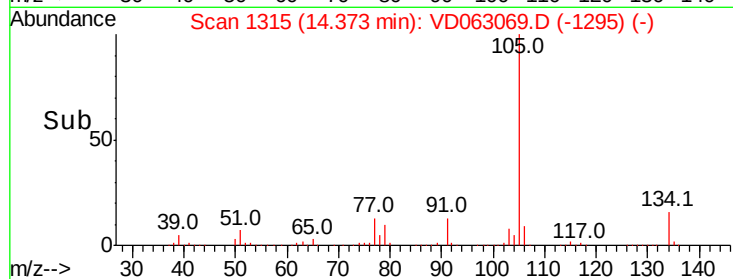
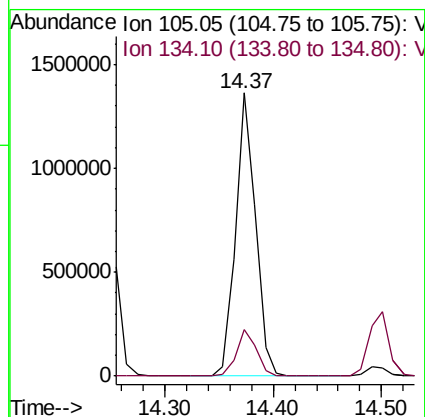
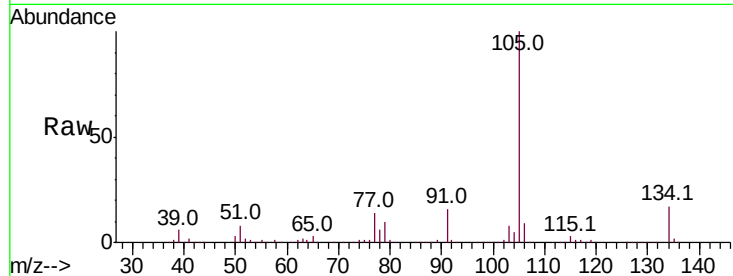
#85
 sec-Butylbenzene
 Concen: 46.851 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1746584
 Ion Ratio Lower Upper
 105 100
 134 16.5 9.1 27.3

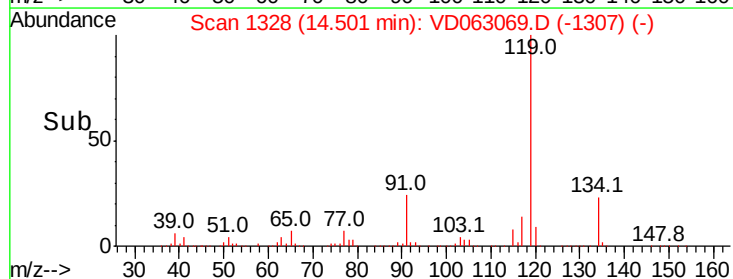
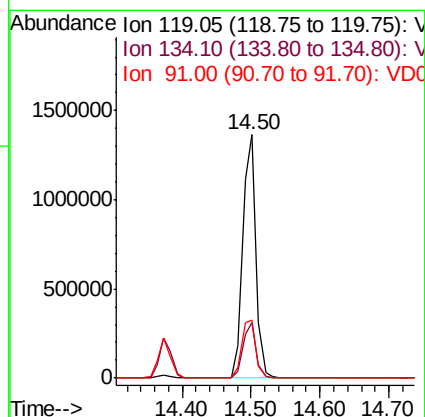
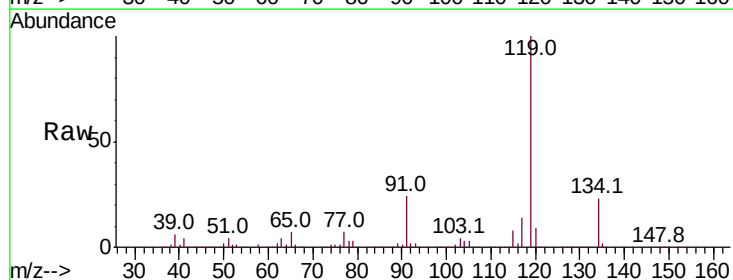
Manual Integrations
 APPROVED

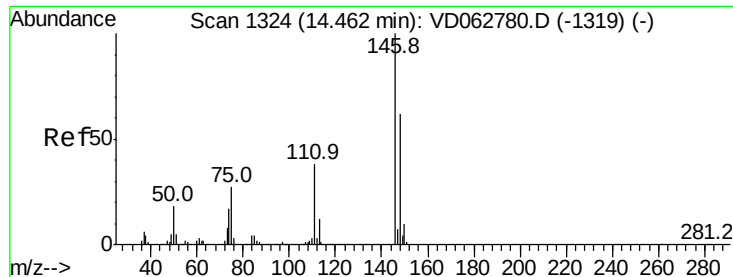
MMDadoda
 7/22/2019 5:31:11 PM



#86
 p-Isopropyltoluene
 Concen: 52.802 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Tgt Ion:119 Resp: 1800807
 Ion Ratio Lower Upper
 119 100
 134 22.6 11.1 33.1
 91 23.9 14.0 41.9





#87

1,3-Dichlorobenzene

Concen: 52.958 ug/l

RT: 14.46 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VD063069.D

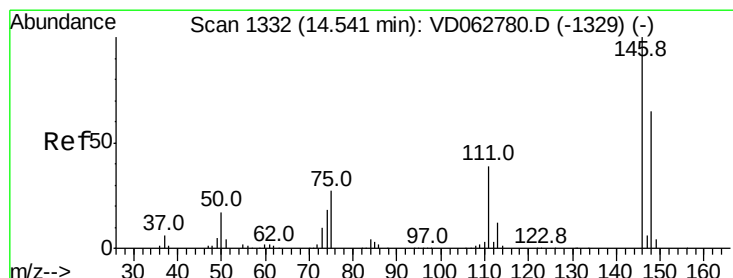
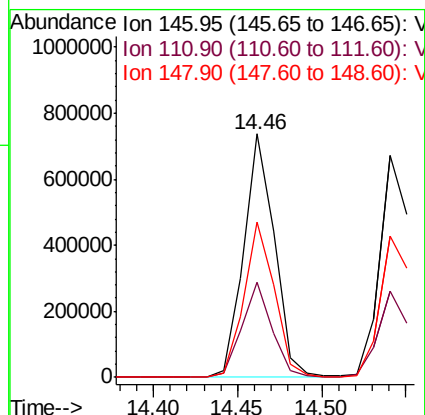
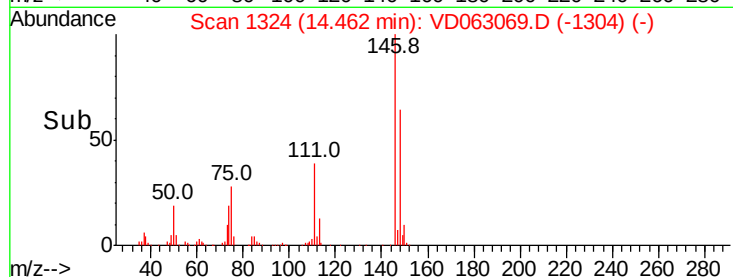
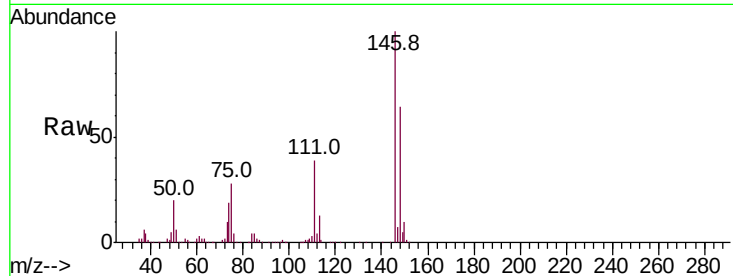
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.0	57.0
148	63.8	30.8	92.3

Manual Integrations
APPROVED

MMDadoda
7/22/2019 5:31:11 PM



#88

1,4-Dichlorobenzene

Concen: 48.983 ug/l

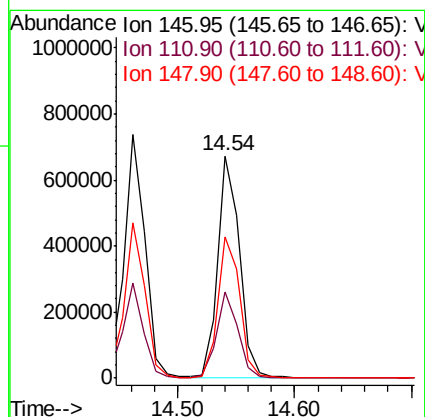
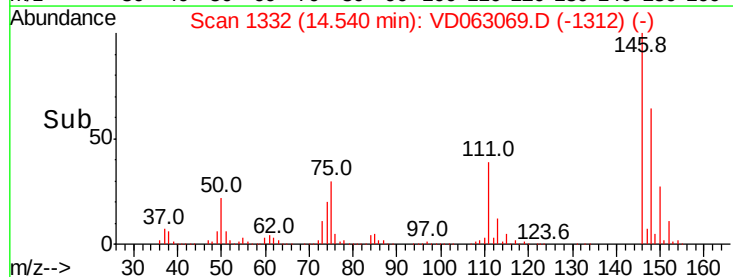
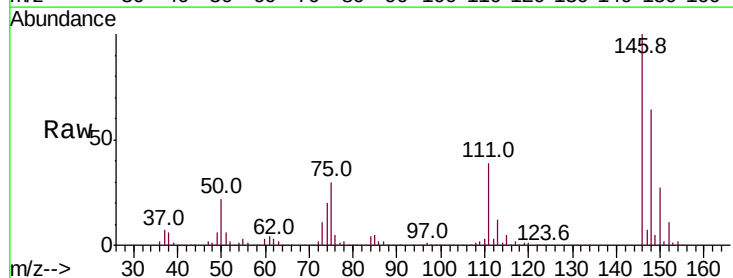
RT: 14.54 min Scan# 1332

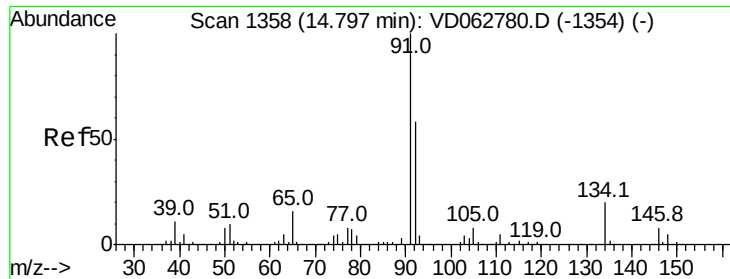
Delta R.T. -0.00 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.7	59.1
148	63.6	32.8	98.3





#89

n-Butylbenzene

Concen: 49.932 ug/l

RT: 14.81 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD063069.D

Acq: 12 Jul 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1593879

Ion Ratio Lower Upper

91 100

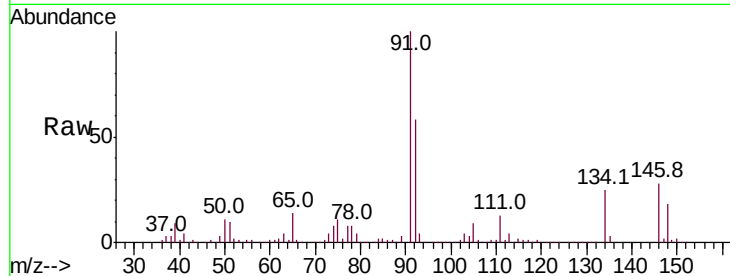
92 58.1 28.9 86.7

134 25.2 10.1 30.3

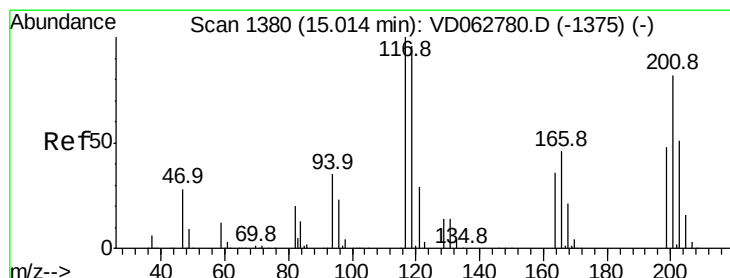
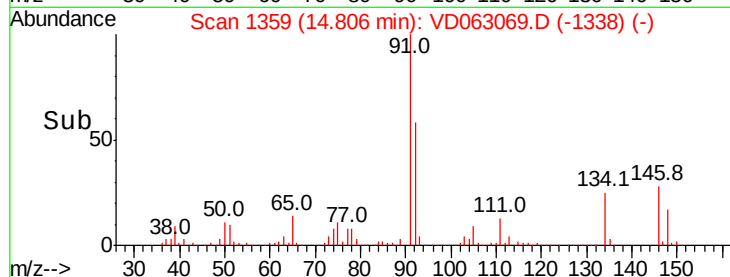
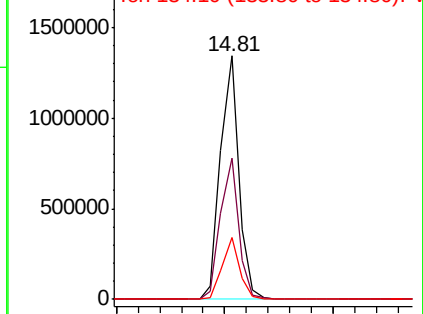
Manual Integrations
APPROVED

MMDadoda

7/22/2019 5:31:11 PM



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 54.206 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VD063069.D

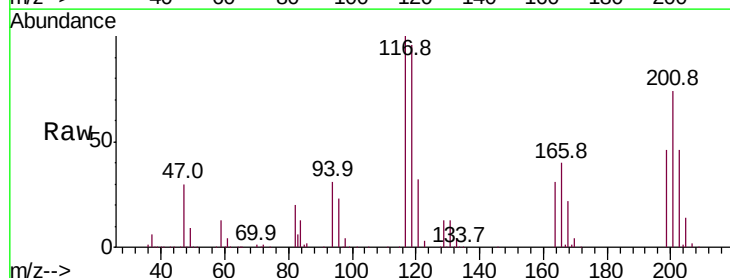
Acq: 12 Jul 2019 14:01

Tgt Ion: 117 Resp: 497059

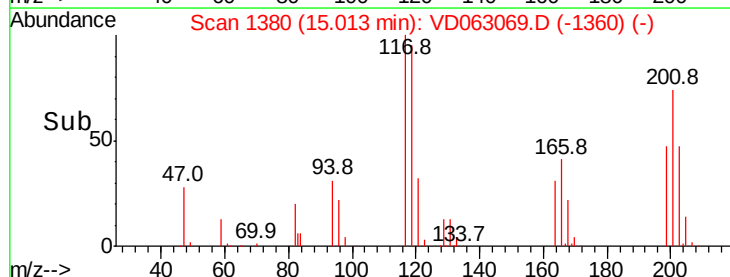
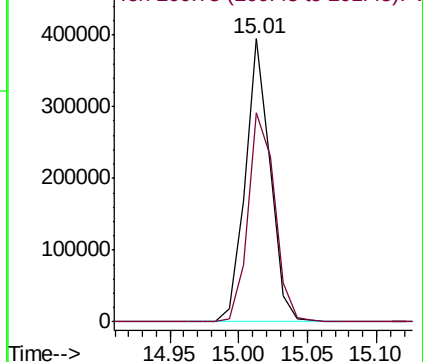
Ion Ratio Lower Upper

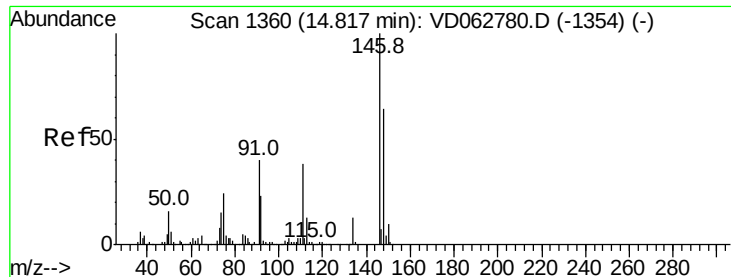
117 100

201 73.7 40.8 122.2



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V





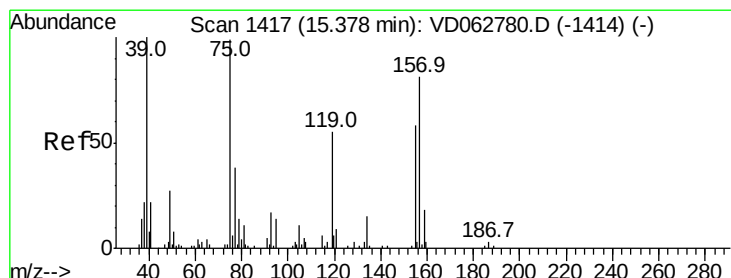
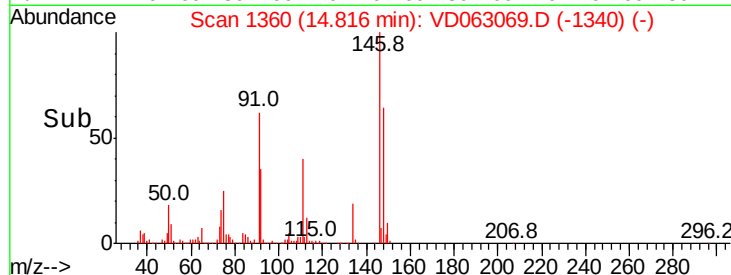
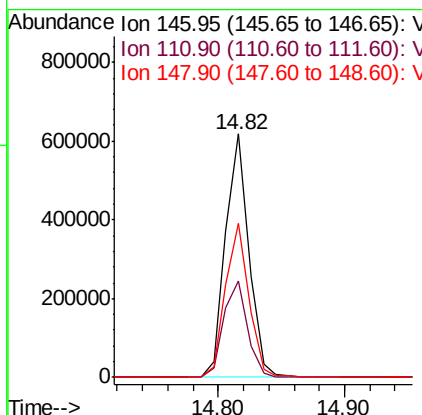
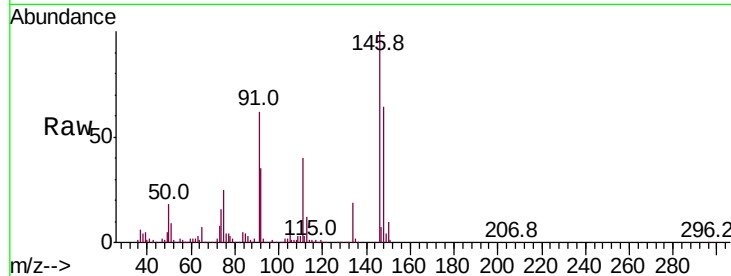
#91
 1,2-Dichlorobenzene
 Concen: 52.018 ug/l
 RT: 14.82 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.1	57.1
148	63.5	32.3	96.8

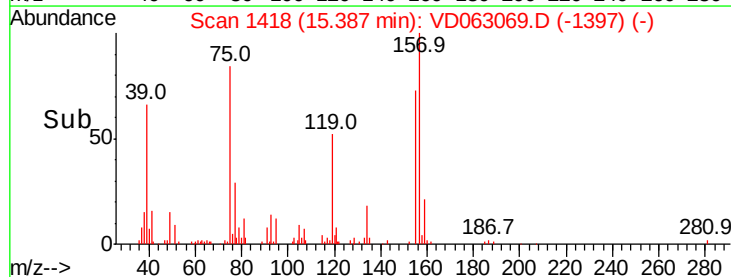
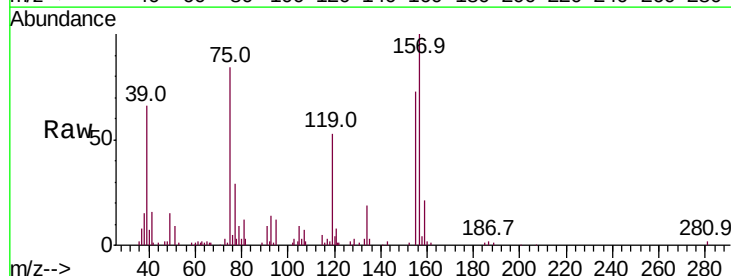
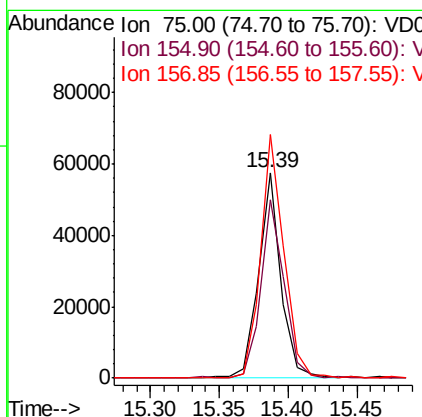
Manual Integrations
 APPROVED

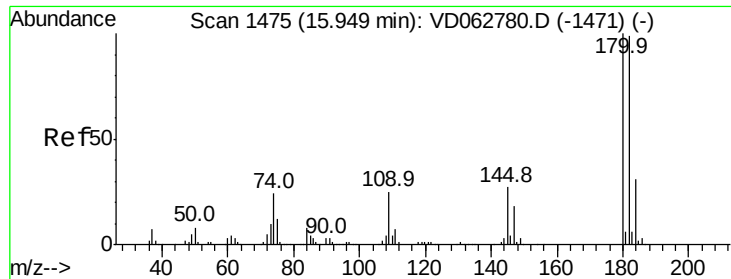
MMDadoda
 7/22/2019 5:31:11 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.860 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063069.D
 Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.7	29.3	87.8
157	118.5	41.3	123.7





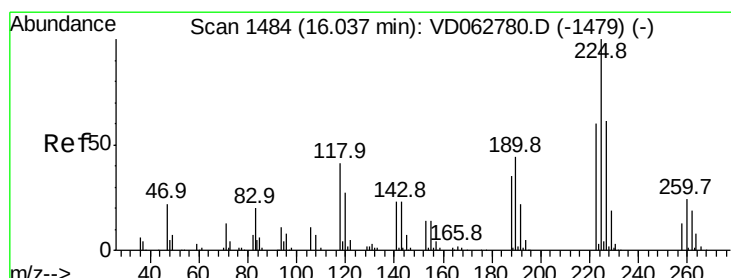
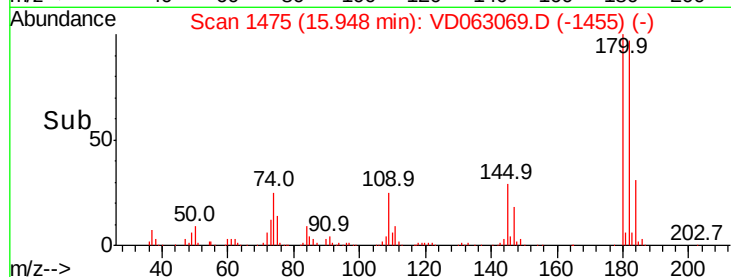
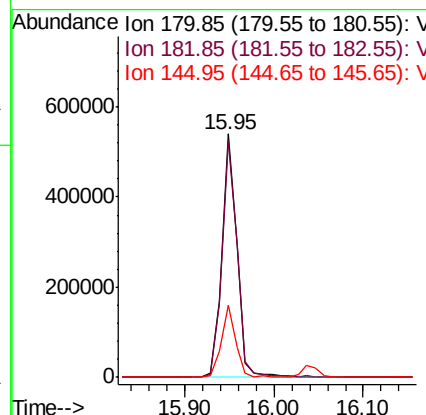
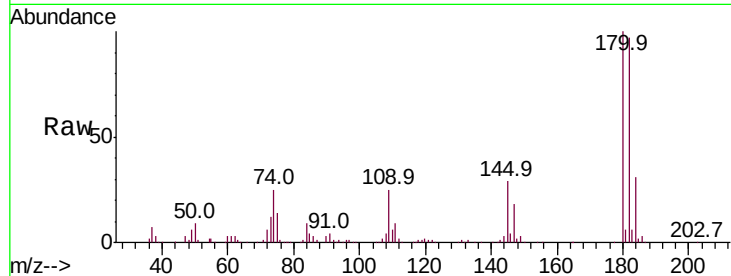
#93
1,2,4-Trichlorobenzene
Concen: 53.699 ug/l
RT: 15.95 min Scan# 1475
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	633940		
182	96.8	49.5	148.5	
145	29.5	13.7	41.0	

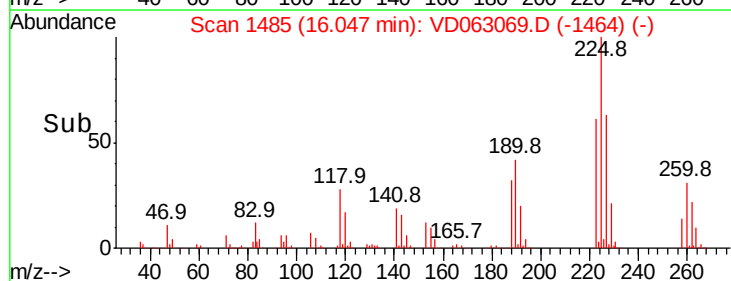
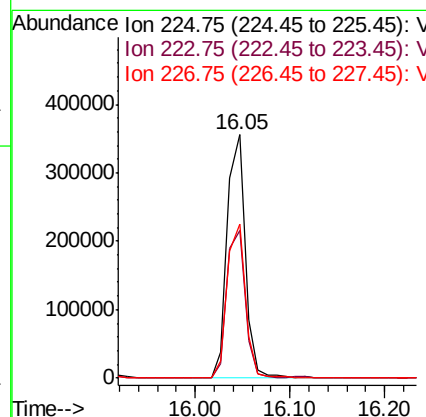
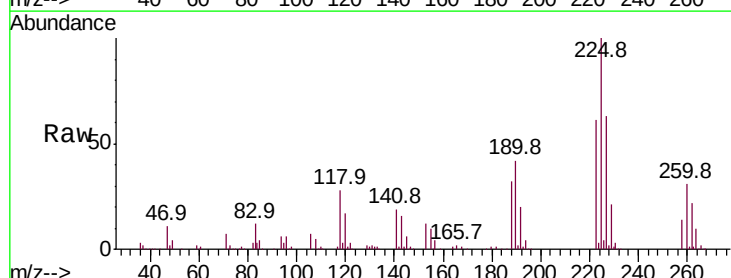
Manual Integrations
APPROVED

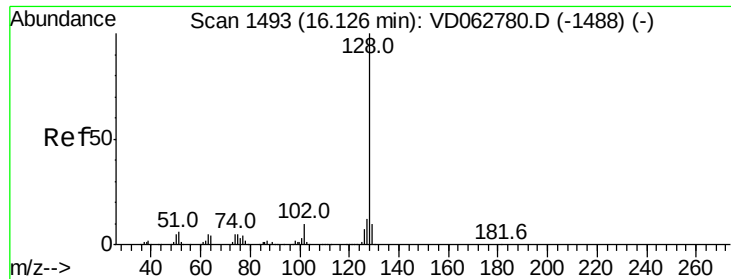
MMDadoda
7/22/2019 5:31:11 PM



#94
Hexachlorobutadiene
Concen: 52.512 ug/l
RT: 16.05 min Scan# 1485
Delta R.T. 0.01 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	473591		
223	60.8	29.8	89.5	
227	63.3	30.6	91.6	





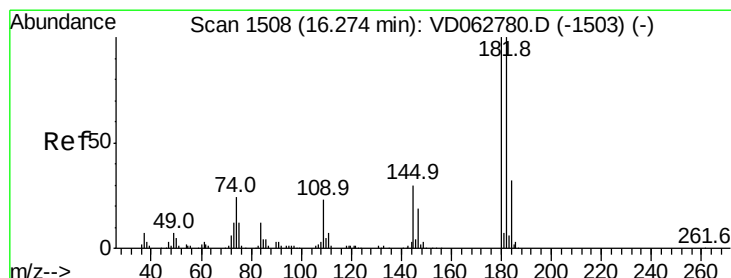
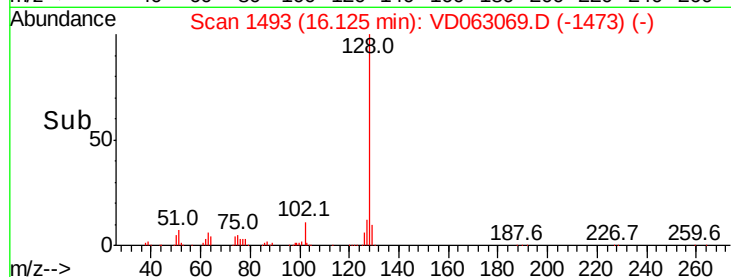
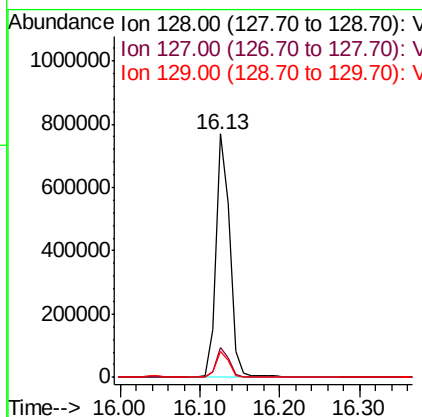
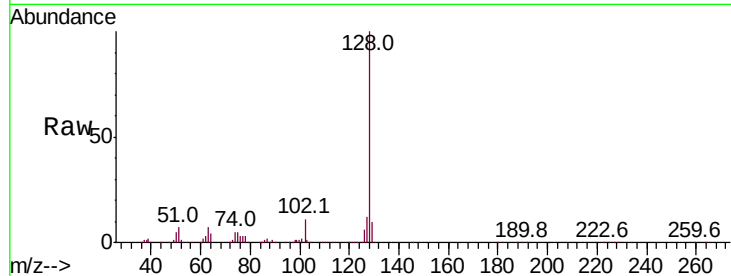
#95
Naphthalene
Concen: 57.167 ug/l
RT: 16.13 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	12.4	9.7	14.5	
129	10.4	8.3	12.5	

Manual Integrations
APPROVED

MMDadoda
7/22/2019 5:31:11 PM



#96
1,2,3-Trichlorobenzene
Concen: 56.607 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD063069.D
Acq: 12 Jul 2019 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	99.4	49.9	149.6	
145	31.5	15.2	45.5	

